Bakersfield College Accreditation

Bakersfield College, approved by the Chancellor of the California Community Colleges, is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges. The Western Association of Schools and Colleges is located at 10 Commercial Boulevard, Suite 204, Novato, California, and is an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education. It meets all standards of the California State Department of Education and is listed in the Education Directory, Higher Education, Part 3, published by the United States Office of Education. The University of California, the California State University System, and other colleges and universities give full credit for appropriate courses completed at Bakersfield College. Student complaints must be in writing and directed to the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges at www.accjc.org. Complaints may be made by contacting the ACCJC at 10 Commercial Boulevard, Suite 204, Novato, CA 94949 or at (415) 506-0234.

Bakersfield College is approved by the following:
- California Board of Registered Nursing
- California State Colleges and Universities
- California State Department of Education
- University of California

Disclaimer

Bakersfield College reserves the right to modify its programs, tuition and fees, admission and graduation requirements, schedules, and other policies, procedures, and regulations stated in this catalog without notice. Addenda can be found at www.bakersfieldcollege.edu.

Acknowledgments

Bakersfield College would like to thank the following individuals who contributed to the development of this 2015-2016 Bakersfield College Catalog.

Sharon Bush, John Carpenter, Amber Chiang, Gregory Cook, Nan Gomez-Heitzeberg, Steven Hellon, Erin Pozzi, Billie Jo Rice

Special Announcement

We anticipate the following Associate Degrees for Transfer to be offered by Fall 2016; please check the college website or with a Counselor or Educational Advisor to confirm:

- Associate in Arts in Philosophy for Transfer
- Associate in Science in Chemistry for Transfer
- Associate in Science in Biology for Transfer
- Associate in Science in Plant Science for Transfer

Please present this printed catalog at the Print Shop on the lower level of the Student Services Building on the Panorama Campus to receive a free printed copy of the addendum to the 2015-2016 Bakersfield College Catalog. The addendum is also made available online at www.bakersfieldcollege.edu.

Bakersfield College Academic Calendar

Fall Semester 2015 (August 22-December 12)

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 22</td>
<td>Instruction Begins</td>
<td></td>
</tr>
<tr>
<td>September 4</td>
<td>Last Day for Refund for Semester-Length Classes*</td>
<td></td>
</tr>
<tr>
<td>September 7</td>
<td>Labor Day Holiday</td>
<td></td>
</tr>
<tr>
<td>September 8</td>
<td>Last Day to Drop From a Semester-Length Class Without Receiving a W*</td>
<td></td>
</tr>
<tr>
<td>September 8</td>
<td>Last Day to Add a Semester-Length Class with Approved Add Form</td>
<td></td>
</tr>
<tr>
<td>October 30</td>
<td>Last Day to Withdraw From a Semester-Length Class and Receive a W*</td>
<td></td>
</tr>
<tr>
<td>November 1</td>
<td>Last Day to File for Graduation</td>
<td></td>
</tr>
<tr>
<td>November 11</td>
<td>Veterans’ Day Holiday</td>
<td></td>
</tr>
<tr>
<td>November 12</td>
<td>Early Web Registration for 2015</td>
<td></td>
</tr>
<tr>
<td>November 26-27</td>
<td>Thanksgiving Holidays</td>
<td></td>
</tr>
<tr>
<td>December 2-3</td>
<td>Open Web Registration for 2015</td>
<td></td>
</tr>
<tr>
<td>December 7-12</td>
<td>Final Exam</td>
<td></td>
</tr>
<tr>
<td>December 12</td>
<td>End of Fall Semester</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester 2016 (January 16-May 13)</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 12</td>
</tr>
<tr>
<td>December 2-3</td>
</tr>
<tr>
<td>January 16</td>
</tr>
<tr>
<td>January 18</td>
</tr>
<tr>
<td>January 19</td>
</tr>
<tr>
<td>January 29</td>
</tr>
<tr>
<td>January 31</td>
</tr>
<tr>
<td>January 31</td>
</tr>
<tr>
<td>February 12</td>
</tr>
<tr>
<td>February 15</td>
</tr>
<tr>
<td>March 21-25</td>
</tr>
<tr>
<td>April 1</td>
</tr>
<tr>
<td>April 1</td>
</tr>
<tr>
<td>April 6</td>
</tr>
<tr>
<td>April 20-22</td>
</tr>
<tr>
<td>May 13</td>
</tr>
<tr>
<td>May 13</td>
</tr>
</tbody>
</table>

*In courses other than semester length, the Office of Admissions and Records or the instructor should be consulted regarding drop, withdrawal, and refund deadlines.

Alternate Formats

If this material is needed in an alternate format for people with disabilities, please contact Disabled Student Programs & Services at 661/395-4334.
President’s Welcome

It is my honor to release this 2015-2016 Bakersfield College Catalog. Bakersfield College considers our catalog to be our contract with students - an agreement by which we agree to provide you with a high-quality, innovative, enriching educational experience - provided you keep up your end of the contract and complete all the necessary steps. This catalog is your way of knowing exactly what is expected of you as you work your way toward your personalized educational goals. The catalog compiles all the courses and programs that make up the educational offerings at Bakersfield College, and highlights the support services and transfer information you need along the way.

Bakersfield College offers more than 120 degree and certificate programs to help you make your way to a rewarding career. Among those are 22 associate degrees for transfer which will ensure you move to a four-year university at the junior level to continue your coursework. New in the 2015-2016 Bakersfield College Catalog is the Baccalaureate of Applied Science in Industrial Automation - Bakersfield College’s approved bachelor’s degree. This new degree, for those interested in a career in the robust agricultural, industrial, or distribution sectors in Kern County, will allow students to take all the necessary coursework and earn a bachelor’s degree at Bakersfield College.

I encourage you to review this catalog, and become familiar with the contents. There is much more to gain than just understanding your “catalog rights” - in fact, you can have a deeper understanding of Bakersfield College and the services and programs we have in place to help you succeed.

To all students, new and returning, I wish you much success as you become a part of the 100-year history of students who have attended Bakersfield College.

In Renegade pride and collegiality,

Sonya Christian, Ed.D.
President, Bakersfield College
# Table of Contents

## ABOUT BAKERSFIELD COLLEGE
- 13 History of Bakersfield College
- 13 Mission, Vision, Values
- 14 Student Right to Know
- 14 Equal Opportunity Employment Statement
- 15 Students with Disabilities
- 15 Access to and Confidentiality of Student Records: Privacy Act
- 15 Policy Concerning Sexual Harassment

## ADMISSION AND REGISTRATION
- 16 Matriculation Steps
- 17 Academic Eligibility
- 17 Residency Determination
- 18 International Students
- 18 Admissions Form
- 18 Changing Identification Numbers
- 18 Changing Directory Information
- 18 Passwords
- 18 Enrollment
- 18 Assessment
- 18 Assessment Policy for Students with Disabilities
- 19 Precollegiate Pathways
- 21 Policy for Students whose Native Language is Not English
- 21 Exemptions
- 21 Course Admission Policy
- 21 Prerequisites
- 21 Student Educational Plans
- 21 Early (Priority) Registration Appointments
- 21 Registering for Classes
- 22 Waitlists
- 22 Maximum Study Load
- 22 Minimum Study Load
- 22 Academic Success and Progression
- 22 Repeating a Course
- 22 Remedial Coursework Limitation
- 23 Auditing a Course
- 23 Holds that Prevent Registration
- 23 Alternate Class Formats
- 24 Learning Communities, Compressed, and Accelerated Courses
- 25 College Fees, Tuition, Books, and Fee Refunds
- 26 Attendance Policies
- 27 Withdrawing from Classes
- 27 Transcripts
- 27 Verification of Enrollment
- 27 Student Schedule of Classes

## STUDENT SERVICES
- 28 Advising and Counseling Department
- 29 Testing and Placement

## ACADEMIC INFORMATION
- 36 Academic Credit
- 36 Academic Freedom
- 36 Academic Honesty
- 36 Plagiarism and Cheating
- 37 Academic Standing
- 37 Academic Probation
- 38 Associate Degrees for Transfer
- 38 Catalog Rights/Continuous Enrollment
- 38 Credits Allowed from Other Institutions
- 38 Advanced Placement Programs
- 38 Credit by Examination
- 39 College Level Examination Program
- 39 International Baccalaureate Diploma Program
- 39 Military Credit
- 39 Tech Prep Program
- 39 Repeating a Course
- 39 Final Examinations
- 40 Grades and Credits
- 40 Pass/No Pass
- 41 Grade Reports
- 41 Grade Changes
- 41 Honors

## TRANSFER GUIDE
- 42 What is Transfer?
- 42 Transfer Services
# Table of Contents

<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>Education Options</td>
</tr>
<tr>
<td>43</td>
<td>Transfer Coursework</td>
</tr>
<tr>
<td>43</td>
<td>Choosing a College Major</td>
</tr>
<tr>
<td>43</td>
<td>Associate Degrees for Transfer</td>
</tr>
<tr>
<td>43</td>
<td>Choosing a Transfer University</td>
</tr>
<tr>
<td>44</td>
<td>Preparation for Major Courses</td>
</tr>
<tr>
<td>44</td>
<td>General Education Courses</td>
</tr>
<tr>
<td>45</td>
<td>Pass Along Certification</td>
</tr>
<tr>
<td>45</td>
<td>Course Identification Numbering System (C-ID)</td>
</tr>
<tr>
<td>45</td>
<td>Intersegmental General Education Transfer Curriculum (IGETC)</td>
</tr>
<tr>
<td>47</td>
<td>California State University General Education Breadth (CSU GE)</td>
</tr>
<tr>
<td>49</td>
<td>Guaranteed Admission Programs</td>
</tr>
<tr>
<td>49</td>
<td>Applying to a University</td>
</tr>
<tr>
<td>50</td>
<td>Final Steps to Transfer</td>
</tr>
<tr>
<td>50</td>
<td>Other Transfer Information</td>
</tr>
<tr>
<td>52</td>
<td>Certificates and Degrees</td>
</tr>
<tr>
<td>52</td>
<td>Applying for Graduation</td>
</tr>
<tr>
<td>53</td>
<td>Commencement Ceremonies</td>
</tr>
<tr>
<td>53</td>
<td>General Requirements</td>
</tr>
<tr>
<td>53</td>
<td>Multicultural Requirement</td>
</tr>
<tr>
<td>53</td>
<td>Multiple Degrees</td>
</tr>
<tr>
<td>53</td>
<td>General Education</td>
</tr>
<tr>
<td>55</td>
<td>Bakersfield College General Education Pattern</td>
</tr>
<tr>
<td>54</td>
<td>Programs by Department</td>
</tr>
<tr>
<td>57</td>
<td>Programs in Alphabetical Order</td>
</tr>
<tr>
<td>61</td>
<td>Baccalaureate Degree Program in Industrial Automation</td>
</tr>
<tr>
<td>61</td>
<td>Associate in Science in Administration of Justice for Transfer</td>
</tr>
<tr>
<td>61</td>
<td>Anthropology Associate of Arts Degree for Transfer</td>
</tr>
<tr>
<td>62</td>
<td>Associate in Science in Business Administration for Transfer</td>
</tr>
<tr>
<td>63</td>
<td>Associate in Arts in Communication Studies for Transfer</td>
</tr>
<tr>
<td>63</td>
<td>Associate in Science in Computer Science for Transfer</td>
</tr>
<tr>
<td>64</td>
<td>Associate in Science in Early Childhood Education for Transfer</td>
</tr>
<tr>
<td>64</td>
<td>Associate in Arts in Economics for Transfer</td>
</tr>
<tr>
<td>65</td>
<td>Associate in Arts in Elementary Teacher Education for Transfer</td>
</tr>
<tr>
<td>65</td>
<td>Associate in Arts in English for Transfer</td>
</tr>
<tr>
<td>66</td>
<td>Associate in Science in Geology for Transfer</td>
</tr>
<tr>
<td>66</td>
<td>Associate in Arts in History for Transfer</td>
</tr>
<tr>
<td>67</td>
<td>Associate in Arts in Journalism for Transfer</td>
</tr>
<tr>
<td>67</td>
<td>Associate in Arts in Kinesiology for Transfer</td>
</tr>
<tr>
<td>68</td>
<td>Associate of Science in Mathematics for Transfer</td>
</tr>
<tr>
<td>68</td>
<td>Associate in Arts in Music for Transfer</td>
</tr>
<tr>
<td>68</td>
<td>Associate in Science in Physics for Transfer</td>
</tr>
<tr>
<td>68</td>
<td>Associate in Arts in Political Science for Transfer</td>
</tr>
<tr>
<td>70</td>
<td>Associate in Arts in Psychology for Transfer</td>
</tr>
<tr>
<td>70</td>
<td>Associate in Arts in Sociology for Transfer</td>
</tr>
<tr>
<td>71</td>
<td>Associate in Arts in Spanish for Transfer</td>
</tr>
<tr>
<td>71</td>
<td>Associate in Arts in Studio Arts for Transfer</td>
</tr>
<tr>
<td>72</td>
<td>Associate in Arts in Theatre Arts for Transfer</td>
</tr>
<tr>
<td>72</td>
<td>Administration of Justice (AS-T)</td>
</tr>
<tr>
<td>73</td>
<td>Agriculture Business Management (CA)</td>
</tr>
<tr>
<td>73</td>
<td>Agriculture Business Management (AA)</td>
</tr>
<tr>
<td>74</td>
<td>Agriculture Business Management (AS)</td>
</tr>
<tr>
<td>74</td>
<td>Animal Science (CA)</td>
</tr>
<tr>
<td>75</td>
<td>Animal Science (AA)</td>
</tr>
<tr>
<td>75</td>
<td>Animal Science (AS)</td>
</tr>
<tr>
<td>76</td>
<td>Environmental Horticulture (CA)</td>
</tr>
<tr>
<td>76</td>
<td>Environmental Horticulture (AA)</td>
</tr>
<tr>
<td>77</td>
<td>Environmental Horticulture (AS)</td>
</tr>
<tr>
<td>77</td>
<td>Forestry (CA)</td>
</tr>
<tr>
<td>77</td>
<td>Forestry (AA)</td>
</tr>
<tr>
<td>78</td>
<td>Forestry (AS)</td>
</tr>
<tr>
<td>78</td>
<td>Plant Science (CA)</td>
</tr>
<tr>
<td>79</td>
<td>Plant Science - Crops Emphasis (AA)</td>
</tr>
<tr>
<td>79</td>
<td>Plant Science - Crops Emphasis (AS)</td>
</tr>
<tr>
<td>79</td>
<td>Plant Science - Horticulture Emphasis (AA)</td>
</tr>
<tr>
<td>80</td>
<td>Plant Science - Horticulture Emphasis (AS)</td>
</tr>
<tr>
<td>80</td>
<td>Pre-Veterinary Medicine Option</td>
</tr>
<tr>
<td>80</td>
<td>Registered Veterinary Technician (JSC)</td>
</tr>
<tr>
<td>81</td>
<td>American Sign Language (AA)</td>
</tr>
<tr>
<td>81</td>
<td>Anthropology (AA-T)</td>
</tr>
<tr>
<td>82</td>
<td>Apprenticeship (AA)</td>
</tr>
<tr>
<td>82</td>
<td>Apprenticeship (CA)</td>
</tr>
<tr>
<td>Table of Contents</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - ARCHITECTURE</strong></td>
<td></td>
</tr>
<tr>
<td>82 Architectural Computer Aided Drafting (JSC)</td>
<td></td>
</tr>
<tr>
<td>83 Architectural Drafting (AA)</td>
<td></td>
</tr>
<tr>
<td>83 Architectural Drafting (AS)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - ART</strong></td>
<td></td>
</tr>
<tr>
<td>83 Studio Arts (AA-T)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - AUTOMOTIVE</strong></td>
<td></td>
</tr>
<tr>
<td>84 Auto Brakes and Wheel Alignment (CA)</td>
<td></td>
</tr>
<tr>
<td>84 Auto Engine Overhaul (CA)</td>
<td></td>
</tr>
<tr>
<td>85 Auto Tune-Up and Emission Systems (CA)</td>
<td></td>
</tr>
<tr>
<td>85 Automotive Heating, Ventilation &amp; Air Conditioning-HVAC (JSC)</td>
<td></td>
</tr>
<tr>
<td>86 Automotive Management (JSC)</td>
<td></td>
</tr>
<tr>
<td>86 Automotive Power Trains (CA)</td>
<td></td>
</tr>
<tr>
<td>87 Basic and Advanced Clean Air Car Course (JSC)</td>
<td></td>
</tr>
<tr>
<td>87 Industrial Technology, Automotive Option (AS)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - BIOLOGY</strong></td>
<td></td>
</tr>
<tr>
<td>87 Biology-General Biology (AS)</td>
<td></td>
</tr>
<tr>
<td>88 Biology-Human Biology (AS)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - BUSINESS ADMINISTRATION</strong></td>
<td></td>
</tr>
<tr>
<td>89 Business Administration (AS-T)</td>
<td></td>
</tr>
<tr>
<td>89 Accounting (AA)</td>
<td></td>
</tr>
<tr>
<td>89 Office Assistant (JSC)</td>
<td></td>
</tr>
<tr>
<td>90 Office Assistant (CA)</td>
<td></td>
</tr>
<tr>
<td>90 Administrative Office Assistant (AA)</td>
<td></td>
</tr>
<tr>
<td>91 Bookkeeping (CA)</td>
<td></td>
</tr>
<tr>
<td>91 General Business (JSC)</td>
<td></td>
</tr>
<tr>
<td>91 Retail Management (CA)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - CHEMISTRY</strong></td>
<td></td>
</tr>
<tr>
<td>92 Chemistry (AS)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - CHILD DEVELOPMENT</strong></td>
<td></td>
</tr>
<tr>
<td>92 Early Childhood Education (AS-T)</td>
<td></td>
</tr>
<tr>
<td>93 Elementary Teacher Education (AA-T)</td>
<td></td>
</tr>
<tr>
<td>93 Child Development Assistant Teacher (JSC)</td>
<td></td>
</tr>
<tr>
<td>94 Child Development Associate Teacher (JSC)</td>
<td></td>
</tr>
<tr>
<td>94 Child Development Teacher (CA)</td>
<td></td>
</tr>
<tr>
<td>94 Child Development Master Teacher-Infant Toddler (CA)</td>
<td></td>
</tr>
<tr>
<td>95 Child Development Master Teacher-Special Education (CA)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - COMMUNICATION</strong></td>
<td></td>
</tr>
<tr>
<td>95 Communication (AA-T)</td>
<td></td>
</tr>
<tr>
<td>96 Communication (CA)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - COMPUTER STUDIES</strong></td>
<td></td>
</tr>
<tr>
<td>96 Computer Information Systems (CA)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - CONSTRUCTION</strong></td>
<td></td>
</tr>
<tr>
<td>97 Construction Technology (CA)</td>
<td></td>
</tr>
<tr>
<td>97 Industrial Technology, Construction Option (AS)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - CORRECTIONAL ADMINISTRATION</strong></td>
<td></td>
</tr>
<tr>
<td>98 Correctional Administration (AA)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - CRIMINAL JUSTICE</strong></td>
<td></td>
</tr>
<tr>
<td>98 Criminal Justice (AA)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - ECONOMICS</strong></td>
<td></td>
</tr>
<tr>
<td>98 Economics (AA-T)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - ELECTRONICS TECHNOLOGY</strong></td>
<td></td>
</tr>
<tr>
<td>99 Electronics Technology (CA)</td>
<td></td>
</tr>
<tr>
<td>99 Electronics - Industrial Automation (JSC)</td>
<td></td>
</tr>
<tr>
<td>100 Electronics - Industrial Communication (JSC)</td>
<td></td>
</tr>
<tr>
<td>100 Electronics - Industrial Maintenance (JSC)</td>
<td></td>
</tr>
<tr>
<td>100 Electronics - Manufacturing Automation (JSC)</td>
<td></td>
</tr>
<tr>
<td>101 Industrial Technology, Electronics Option (AS)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - EMERGENCY MEDICAL TECHNICIAN</strong></td>
<td></td>
</tr>
<tr>
<td>101 Emergency Medical Technician (EMT-1)</td>
<td></td>
</tr>
<tr>
<td>102 Emergency Medical Technician 1 (JSC)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - ENGINEERING</strong></td>
<td></td>
</tr>
<tr>
<td>102 Engineering (AS)</td>
<td></td>
</tr>
<tr>
<td>102 Engineering Technology (AS)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - ENGLISH</strong></td>
<td></td>
</tr>
<tr>
<td>103 English (AA-T)</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS - FIRE TECHNOLOGY</strong></td>
<td></td>
</tr>
<tr>
<td>104 Fire Technology (CA)</td>
<td></td>
</tr>
<tr>
<td>104 Fire Technology (AA)</td>
<td></td>
</tr>
</tbody>
</table>
# Table of Contents

<table>
<thead>
<tr>
<th>Page</th>
<th>Program</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>105</td>
<td></td>
<td>Wildland Fire Technology (AS)</td>
</tr>
<tr>
<td>106</td>
<td></td>
<td>Chief Officer Certification (CA)</td>
</tr>
<tr>
<td>106</td>
<td></td>
<td>Fire Officer Certification (CA)</td>
</tr>
<tr>
<td>107</td>
<td></td>
<td>Fire Academy (JSC)</td>
</tr>
<tr>
<td>107</td>
<td></td>
<td>Fire Technology EMT (JSC)</td>
</tr>
<tr>
<td>107</td>
<td>Programs - Foods/Nutrition</td>
<td></td>
</tr>
<tr>
<td>108</td>
<td>Child Nutrition Management (CA)</td>
<td></td>
</tr>
<tr>
<td>108</td>
<td>Child Nutrition Program Management Option (AS)</td>
<td></td>
</tr>
<tr>
<td>108</td>
<td>Culinary Arts (CA)</td>
<td></td>
</tr>
<tr>
<td>109</td>
<td>Culinary Arts (AS)</td>
<td></td>
</tr>
<tr>
<td>109</td>
<td>Dietetic Services Supervisor Program (CA)</td>
<td></td>
</tr>
<tr>
<td>110</td>
<td>Foodservice Management Option (AS)</td>
<td></td>
</tr>
<tr>
<td>110</td>
<td>Programs - Geology</td>
<td>Geology (AS-T)</td>
</tr>
<tr>
<td>111</td>
<td>Programs - History</td>
<td>History (AA-T)</td>
</tr>
<tr>
<td>111</td>
<td>Programs - Human Services</td>
<td></td>
</tr>
<tr>
<td>111</td>
<td>Human Services (JSC)</td>
<td></td>
</tr>
<tr>
<td>111</td>
<td>Human Services (AA)</td>
<td></td>
</tr>
<tr>
<td>112</td>
<td>Programs - Industrial Drawing</td>
<td>AutoCAD (JSC)</td>
</tr>
<tr>
<td>112</td>
<td>Industrial Drawing (AA)</td>
<td></td>
</tr>
<tr>
<td>112</td>
<td>Industrial Technology-Industrial Drawing Option (AS)</td>
<td></td>
</tr>
<tr>
<td>113</td>
<td>Programs - Industrial Technology</td>
<td>Industrial Technology-General (AS)</td>
</tr>
<tr>
<td>114</td>
<td>Programs - Journalism</td>
<td>Journalism (AA)</td>
</tr>
<tr>
<td>114</td>
<td>Programs - Kinesiology</td>
<td>Kinesiology (AA-T)</td>
</tr>
<tr>
<td>115</td>
<td>Programs - Liberal Arts</td>
<td>Liberal Arts (AA)</td>
</tr>
<tr>
<td>115</td>
<td>Programs - Manufacturing/Machine Technology</td>
<td>Basic Machine Tool Operations-Lathe, Mill (JSC)</td>
</tr>
<tr>
<td>115</td>
<td>Programs - Mathematics</td>
<td>Computer Numerical Control Programming (JSC)</td>
</tr>
<tr>
<td>116</td>
<td>Industrial Technology-Manufacturing Technology Option (AS)</td>
<td></td>
</tr>
<tr>
<td>116</td>
<td>Programs - Music</td>
<td></td>
</tr>
<tr>
<td>117</td>
<td>Music (AA-T)</td>
<td></td>
</tr>
<tr>
<td>117</td>
<td>Programs - Nursing</td>
<td></td>
</tr>
<tr>
<td>117</td>
<td>Nursing (AS)</td>
<td></td>
</tr>
<tr>
<td>119</td>
<td>LVN to Associate Degree Nursing Program (AS)</td>
<td></td>
</tr>
<tr>
<td>121</td>
<td>LVN to Non-Degree Nurse (30 unit option)</td>
<td></td>
</tr>
<tr>
<td>121</td>
<td>Vocational Nursing Program (CA)</td>
<td></td>
</tr>
<tr>
<td>121</td>
<td>Nurse Assistant (JSC)</td>
<td></td>
</tr>
<tr>
<td>123</td>
<td>Programs - Philosophy</td>
<td>Philosophy (AA)</td>
</tr>
<tr>
<td>123</td>
<td>Programs - Physics</td>
<td>Physics (AS-T)</td>
</tr>
<tr>
<td>124</td>
<td>Programs - Political Science</td>
<td>Political Science (AA-T)</td>
</tr>
<tr>
<td>124</td>
<td>Programs - Primary Care Associate/Physician's Assistant</td>
<td>Primary Care Associate/Physician's Assistant</td>
</tr>
<tr>
<td>125</td>
<td>Programs - Psychology</td>
<td>Psychology (AA-T)</td>
</tr>
<tr>
<td>128</td>
<td>Programs - Radiologic Technology</td>
<td>Radiologic Technology (AS)</td>
</tr>
<tr>
<td>129</td>
<td>Principles of Fluoroscopy (JSC)</td>
<td></td>
</tr>
<tr>
<td>129</td>
<td>Principles of Venipuncture (JSC)</td>
<td></td>
</tr>
<tr>
<td>129</td>
<td>Programs - Sociology</td>
<td>Sociology (AA-T)</td>
</tr>
<tr>
<td>130</td>
<td>Programs - Spanish</td>
<td>Spanish (AA-T)</td>
</tr>
</tbody>
</table>
# Table of Contents

## PROGRAMS - THEATRE ARTS

<table>
<thead>
<tr>
<th>Page</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>130</td>
<td>Theatre Arts (AA-T)</td>
</tr>
</tbody>
</table>

## PROGRAMS - WELDING

<table>
<thead>
<tr>
<th>Page</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>131</td>
<td>Blueprint Reading and Layout for Welders (JSC)</td>
</tr>
<tr>
<td>131</td>
<td>Gas Metal Arc/Gas Tungsten Arc Welding/Flux Core Arc Welding (JSC)</td>
</tr>
<tr>
<td>132</td>
<td>Shielded Metal Arc Welding (JSC)</td>
</tr>
<tr>
<td>132</td>
<td>Welding (CA)</td>
</tr>
<tr>
<td>132</td>
<td>Industrial Technology, Welding Option (AS)</td>
</tr>
<tr>
<td>133</td>
<td>Welding Certification (JSC)</td>
</tr>
</tbody>
</table>

## PROGRAMS - WOODWORKING/ CABINETMAKING

<table>
<thead>
<tr>
<th>Page</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>133</td>
<td>Woodworking/Cabinetmaking (JSC)</td>
</tr>
<tr>
<td>133</td>
<td>Cabinetmaking (CA)</td>
</tr>
<tr>
<td>134</td>
<td>Industrial Technology, Woodworking and Cabinetmaking Option (AS)</td>
</tr>
</tbody>
</table>

## COURSES

<table>
<thead>
<tr>
<th>Page</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>136</td>
<td>Academic Development</td>
</tr>
<tr>
<td>138</td>
<td>Administration of Justice</td>
</tr>
<tr>
<td>139</td>
<td>Agriculture Business Management</td>
</tr>
<tr>
<td>139</td>
<td>Agriculture</td>
</tr>
<tr>
<td>140</td>
<td>American Sign Language</td>
</tr>
<tr>
<td>140</td>
<td>Animal Science</td>
</tr>
<tr>
<td>142</td>
<td>Anthropology</td>
</tr>
<tr>
<td>143</td>
<td>Architecture</td>
</tr>
<tr>
<td>144</td>
<td>Art</td>
</tr>
<tr>
<td>147</td>
<td>Astronomy</td>
</tr>
<tr>
<td>148</td>
<td>Automotive Technology</td>
</tr>
<tr>
<td>150</td>
<td>Biology</td>
</tr>
<tr>
<td>151</td>
<td>Business Administration</td>
</tr>
<tr>
<td>154</td>
<td>Chemistry</td>
</tr>
<tr>
<td>155</td>
<td>Child Development</td>
</tr>
<tr>
<td>157</td>
<td>Communication</td>
</tr>
<tr>
<td>158</td>
<td>Computer Science</td>
</tr>
<tr>
<td>161</td>
<td>Construction Technology</td>
</tr>
<tr>
<td>161</td>
<td>Correctional Administration</td>
</tr>
<tr>
<td>167</td>
<td>Criminal Justice</td>
</tr>
<tr>
<td>168</td>
<td>Crop Science</td>
</tr>
<tr>
<td>169</td>
<td>Dance</td>
</tr>
<tr>
<td>169</td>
<td>Earth Science</td>
</tr>
<tr>
<td>170</td>
<td>Economics</td>
</tr>
<tr>
<td>170</td>
<td>Education</td>
</tr>
<tr>
<td>170</td>
<td>Electronics Technology</td>
</tr>
<tr>
<td>171</td>
<td>Emergency Medical Technician</td>
</tr>
<tr>
<td>172</td>
<td>Engineering</td>
</tr>
<tr>
<td>174</td>
<td>English</td>
</tr>
<tr>
<td>176</td>
<td>English for Multilingual Students</td>
</tr>
<tr>
<td>177</td>
<td>Fire Technology</td>
</tr>
<tr>
<td>186</td>
<td>Food Service</td>
</tr>
<tr>
<td>187</td>
<td>Forestry</td>
</tr>
<tr>
<td>188</td>
<td>Geography</td>
</tr>
<tr>
<td>188</td>
<td>Geology</td>
</tr>
<tr>
<td>189</td>
<td>Health Education</td>
</tr>
<tr>
<td>189</td>
<td>History</td>
</tr>
<tr>
<td>191</td>
<td>Human Services</td>
</tr>
<tr>
<td>192</td>
<td>Industrial Drawing</td>
</tr>
<tr>
<td>192</td>
<td>Industrial Technology</td>
</tr>
<tr>
<td>193</td>
<td>Japanese</td>
</tr>
<tr>
<td>193</td>
<td>Journalism</td>
</tr>
<tr>
<td>194</td>
<td>Library</td>
</tr>
<tr>
<td>195</td>
<td>Manufacturing/Machine Technology</td>
</tr>
<tr>
<td>195</td>
<td>Mathematics</td>
</tr>
<tr>
<td>196</td>
<td>Mechanized Agriculture</td>
</tr>
<tr>
<td>197</td>
<td>Medical Science</td>
</tr>
<tr>
<td>197</td>
<td>Medical Science</td>
</tr>
<tr>
<td>198</td>
<td>Music</td>
</tr>
<tr>
<td>201</td>
<td>Natural Resources Management</td>
</tr>
<tr>
<td>202</td>
<td>Nutrition</td>
</tr>
<tr>
<td>202</td>
<td>Ornamental Horticulture</td>
</tr>
<tr>
<td>203</td>
<td>Philosophy</td>
</tr>
<tr>
<td>203</td>
<td>Physical Education</td>
</tr>
<tr>
<td>207</td>
<td>Physical Science</td>
</tr>
<tr>
<td>207</td>
<td>Physics</td>
</tr>
<tr>
<td>208</td>
<td>Political Science</td>
</tr>
<tr>
<td>209</td>
<td>Psychology</td>
</tr>
<tr>
<td>210</td>
<td>Registered Nursing</td>
</tr>
<tr>
<td>212</td>
<td>Radiologic Technology</td>
</tr>
<tr>
<td>214</td>
<td>Sociology</td>
</tr>
<tr>
<td>215</td>
<td>Soil Science</td>
</tr>
<tr>
<td>215</td>
<td>Spanish</td>
</tr>
<tr>
<td>216</td>
<td>Special Studies</td>
</tr>
<tr>
<td>217</td>
<td>Student Development</td>
</tr>
<tr>
<td>217</td>
<td>Technical Mathematics</td>
</tr>
<tr>
<td>217</td>
<td>Theatre Arts</td>
</tr>
<tr>
<td>218</td>
<td>Vocational Nursing</td>
</tr>
<tr>
<td>222</td>
<td>Water Technology</td>
</tr>
<tr>
<td>223</td>
<td>Welding</td>
</tr>
<tr>
<td>225</td>
<td>Woodworking</td>
</tr>
<tr>
<td>225</td>
<td>Work Experience</td>
</tr>
</tbody>
</table>

## ADMINISTRATION AND FACULTY

<table>
<thead>
<tr>
<th>Page</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>227</td>
<td>Bakersfield College Administration</td>
</tr>
<tr>
<td>228</td>
<td>Bakersfield College Faculty</td>
</tr>
<tr>
<td>240</td>
<td>Bakersfield College Adjunct Faculty</td>
</tr>
<tr>
<td>242</td>
<td>Bakersfield College Retirees</td>
</tr>
</tbody>
</table>
About Bakersfield College

History of Bakersfield College
Established in 1913, Bakersfield College is one of the oldest two-year community colleges in the nation. The initial program offered a one-year curriculum, and in 1915 the trustees of the Kern County High School and Junior College District authorized a second year of junior college and normal school courses. The college opened its present day campus high above the Panorama bluffs in 1956. Bakersfield College offers courses at its satellite campuses located in downtown Bakersfield at the Weill Institute, at its Delano Campus, and other locations in Kern County.

The 153-acre Panorama Campus features a state-of-the-art library and technology center and a 19,000-seat stadium that is the crown jewel of community colleges nationwide.

As the majority of the buildings on the Panorama Campus are at least 50 years old, state and bond-funded construction will continue to upgrade facilities to help students achieve their academic goals.

Bakersfield College Mission
Bakersfield College provides opportunities for students from diverse economic, cultural, and educational backgrounds to attain degrees and certificates, workplace skills, and preparation for transfer. Our rigorous and supportive learning environment fosters students’ abilities to think critically, communicate effectively, and demonstrate competencies and skills in order to engage productively in their communities and the world.

Bakersfield College Vision
Building upon more than 100 years of excellence, Bakersfield College continues to contribute to the intellectual, cultural, and economic vitality of the communities it serves.

Bakersfield College Core Values
- **Learning:** We foster curiosity, inquiry, critical thinking, and creativity within a safe and rigorous academic environment so that we might be empowered to radically transform our community into one that gives voice and power to all people.
- **Integrity:** We continue to develop and follow an ethical and moral consciousness which places the collective wellbeing and health above the self; this principled environment allows for open, constructive conversations and teaches us to trust each other’s vision so that we will be useful and effective in providing support, resources, and encouragement.
- **Wellness:** We believe health and wellness to be integral and foundational elements, and we understand that a holistic education improves all aspects of the individual and the society including the mind, body, and spirit; through education, we will positively impact the health of the natural environment and the global community.
- **Diversity:** We insist that diversity be valued and promoted, recognizing that multiple perspectives lead to a better education and knowledge of the world; listening and witnessing different experiences helps us to understand and contextualize power and privilege related to gender, race, class, religion, disability, and sexuality in terms of access and barriers to resources and opportunities.
- **Community:** We commit to the wellbeing of all members of our community; we maintain strong ties with the surrounding community, and we respond to their needs by serving as an open institution which engages all students, faculty, and staff; in our college, we have built and continue to build and environment in which all members participate as a community through democratic engagement.
- **Sustainability:** We recognize our responsibility for continuing and maintaining this institution which has been shaped by over 100 years of resolute and tenacious labor and judicious foresight, so we unceasingly place our energies into imagining how we might sustain and renew our fiscal, human, and environmental resources into the future.
Student Right to Know
In compliance with the federal Student Right-to-Know (SRTK) Act of 1990 (Public Law 101-542), it is the policy of Bakersfield College to publish its student completion and transfer rates. These rates are based on a limited cohort (or group) of students which are tracked for a three-year period. The cohort is limited because it only includes students who entered Bakersfield College in the fall term as first-time, full-time students seeking a degree, certificate, or transfer. Students included in the 2010 SRTK Cohort were tracked from Fall 2010 to Spring 2013 to determine their academic outcomes during the time period.

A student is included in the **Completion Rate** if he/she attained a certificate or degree or became “transfer prepared” within the three-year period. Transfer-prepared is defined as having completed 60 transferable units with a GPA of 2.0 or better.

A student is included in the **Transfer Rate** if, within the three-year tracking period, he/she transferred to another postsecondary institution prior to receiving a certificate or degree or becoming “transfer-prepared.”

The table below compares Bakersfield College’s Completion and Transfer Rates to the statewide community college average.

<table>
<thead>
<tr>
<th>2010 SRTK Cohort</th>
<th>Completion Rate</th>
<th>Transfer Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bakersfield College</td>
<td>17.5%</td>
<td>9.8%</td>
</tr>
<tr>
<td>Statewide</td>
<td>26.3%</td>
<td>13.6%</td>
</tr>
</tbody>
</table>

These rates do not represent the completion and transfer rates of the entire student population at Bakersfield College, nor do they account for student outcomes occurring after the three-year tracking period. For further information on SRTK methodology, interpretation, and rates at other community colleges, you can visit the California Community College Chancellor’s Office website at [srtk.cccco.edu/index.asp](http://srtk.cccco.edu/index.asp).

Equal Opportunity Employment Statement
In accordance with the requirements of the Civil Rights Act, Bakersfield College provides services and benefits to students regardless of race, color, national origin, ancestry, gender, age, religion, marital status, medical condition, or disability. The lack of English language skills will not be a barrier to administration and participation in vocational education programs. (Title VI and VII of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 503 and 504 of the Rehabilitation Act of 1973, as amended and the Americans with Disabilities Act of 1990)

All persons have the right to seek admission to and complete an educational program at Bakersfield College. Interference with students’ access and successful completion of their education by any person through unlawful discriminatory conduct will not be tolerated. The college will initiate disciplinary action against persons found to have interfered with a students’ education through any means of illegal or immoral intimidation.

The Kern Community College District will afford reasonable accommodations for applicants and employees to enable qualified individuals to perform essential job functions. Students with disabilities will be accommodated to ensure accessibility and full participation in educational programs. To request reasonable accommodations, applicants and employees should contact the Human Resources Manager at 661/395-4660. Students should contact Disabled Student Programs and Services at 661/395-4334.

Unlawful Discrimination
A complaint of alleged unlawful discrimination may be filed within one year of the alleged discrimination. For complaint forms or additional information, contact one of the following:

Human Resources Manager
1801 Panorama Drive
Bakersfield, CA 93305
661/395-4660

Additional inquiries pertaining to federal, state, and local equal opportunity laws, and the governing board policies of Bakersfield College or Kern Community College District (KCCD Board Policy Section 11-D) may be directed to the following office:

Vice Chancellor, Human Resources
Kern Community College District
2100 Chester Avenue
Bakersfield, CA 93301
661/336-5140

Declaración De Igualdad de Oportunidad
De acuerdo con los requisitos de la acta de derechos civiles, Bakersfield College provee servicios y beneficios a todos estudiantes sin impedimento de raza, color, origen nacional, ancestria, género, edad, religión, estado civil, condición marital, o impedimento. La falta de capacidad de hablar inglés no ser un obstaculo para la admisión vocacionales. (Titulo VI y VII del Acto Civil Derechos Civiles de 1974; Titulo IX de las Enmiendas de Educacion de 1972; las Secciones 503 y 504 del Acto de Rehabilitacion del 1973, como modificado.)

Toda persona tiene el derecho de solicitar admisión y completar un programa educativo en Bakersfield College. No se tolera interferencia alguna con el acceso y termino exitoso de su educación a ninguna persona o estudiante por medio de conducta discriminatoria ilegal. El colegio iniciara accion disciplinaria contra las personas que sean descubiertas interfiriendo con la educacion de los estudiantes por medio de cualquier forma de intimidacion ilegal o immoral.

Discriminación ilegal
Una queja de discriminación ilegal supuesta se puede ser registrada dentro del termino de un ano de ocurrida la sequesta discriminacion. Para obtener formas de quejas o informacion adicional usted puede ponerse en contacto con la siguiente persona:

Human Resources Manager
1801 Panorama Drive
Bakersfield, CA 93305
661/395-4660
Para preguntas adicionales referente a las leyes accion afirmativa y igualdad de oportunidad, ya sean al nivel federal, estatal, o local, y referente a la política del consejo de gobierno de Bakersfield College o del Distrito Escolar de la Comunidad de Kern, puede ponerse en contacto con siguiente oficina:

Vice Chancellor, Human Resources
Kern Community College District
2100 Chester Avenue
Bakersfield, CA 93301
661/336-5140

**Students with Disabilities**

Bakersfield College will make reasonable accommodations and/or academic adjustments to ensure that students with disabilities have an equal opportunity to participate in the college’s courses, programs and activities, including extracurricular activities. Students with disabilities who are requesting academic accommodations or auxiliary aids should contact Disabled Student Programs & Services at 661/395-4334. For DSPS services at the Delano Campus, please contact 661/720-2000. Participation by students with disabilities in Disabled Student Programs & Services is voluntary. Any student choosing not to participate in the program may elect an alternate path for services through the Vice President, Student Affairs.

The Bakersfield College Curriculum Committee approved the following Accessibility Statement: *Bakersfield College recognizes the importance and benefits of using technology to enhance student learning, especially as it helps students, faculty and staff communicate more effectively. Every effort will be made to ensure that the design of instructional material and activities for ALL classes taught at Bakersfield College, both face-to-face and at a distance, are accessible to all students, including those with disabilities.*

**Estudiantes Incapacitados**

Bakersfield College proveerá servicio y/o arreglos académicos para asegurar que estudiantes incapacitados tengan oportunidades iguales para participar en las clases de esta escuela, incluyendo actividades extraescolares. Tales estudiantes que piden arreglos o aparatos auxiliares deben llamar a Disabled Student Programs and Services a 661/395-4334. Participación es voluntaria. Estudiantes que no desean participar en este programa pueden ponerse en contacto con la oficina del Decano de Aprendizaje/Servicios Auxiliares.

**Access to and Confidentiality of Student Records:**

**Privacy Act**

Student records are protected by the Family Educational Rights and Privacy Act, state law, and Kern Community College District Board Policy from access by casual or unauthorized persons. Access to records is provided to the student; appropriate college staff members, persons having written consent of the student, officials of the United States Department of Education; or by court order or subpoena.

The Privacy Act affords Bakersfield College the right to release such directory information as the student’s name, address, e-mail address, photographs, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended. If a student does not want this information released, the student must check the privacy requested box on the admission/update forms.

Present and former Bakersfield College students are given the right to inspect, review, and challenge the contents of all educational records related to them. No information contained in their educational records may be released without their consent, except to those agencies or individuals authorized by the Act. Students wishing to inspect, review, or challenge any of their educational records must make a request in writing to the Director of Enrollment Services, 661/395-4301, Room A-7. Copies of the Bakersfield College FERPA Policy are available in the Office of Admissions and Records in the Administration building, room 7.

**Policy Concerning Sexual Harassment**

Bakersfield College is fully committed to all federal, state, and local human rights and equal opportunity laws. *Title VII of the Civil Rights Act of 1964, amended 1991, and Title IX of the Educational Amendments of 1972 are strictly enforced. This legislation specifically prohibits sexual discrimination in employment, educational programs, and services respectively.*

Students have the right to gain access to and complete an educational program at Bakersfield College. Interference with students’ admission to and successful completion of their education by any person through unlawful sexual conduct will not be tolerated. The college will initiate disciplinary action against persons found to have interfered with a student’s education through any means of sexual harassment or intimidation.

The student handbook sets forth a statement of Students Rights and Responsibilities and complaint procedures. Students should refer to this publication for further information. A student handbook can be obtained from the Student Government Association in Campus Center, Room 4.
Matriculation Steps

As a new student...

If you have received a two-year or higher degree from another college but are new to Bakersfield College, you are exempt from the requirements for orientation, assessment, and counseling. All new students who are not exempt must complete the steps below before they can register for classes.

Step 1 - Admission or Update
Submit completed admissions form online at www.bakersfieldcollege.edu

Foreign students holding visas must contact the International Counselor in the Advising and Counseling Office.

Step 2 - Orientation
New student orientation is designed to welcome new students into the Bakersfield College community. Orientation is required for all new students seeking to begin their educational experience. The program is designed to promote personal academic success, individual development, and introduce student and academic support programs that are available at the college. Orientation schedules can be found on the Bakersfield College website at www.bakersfieldcollege.edu.

Step 3 - Testing and Placement Testing
Students must participate in placement testing and are strongly advised to prepare for your placement tests in Math, Reading, and English. Visit the “Prepare for Your Assessment Test” page at www.bakersfieldcollege.edu.

Students can request accommodations for disabilities by calling 395-4334.

Step 4 - Counseling/Abbreviated Student Educational Plan
Students should attend a New Student Counseling Workshop to create a list of first semester classes.

Step 5 - Register for Your Classes

As a continuing student...

Continuing students are enrolled in current semester classes.

Update
Submit update form online at www.bakersfieldcollege.edu.

Plan
- Individual advising appointment
- SEP workshops
- Student Development courses
- Follow-up Services

As a former student...

Former students have been enrolled in Bakersfield College classes in the past, but not in the current semester.

Update
If you attended Bakersfield College before 1987, complete your admissions form as a new student. If you attended Bakersfield College in 1987 or after, complete the update form online at www.bakersfieldcollege.edu

Orientation
Complete if you have not already attended orientation. If you have never attended an orientation, you are expected to participate in orientation before assessment testing. Orientation schedules can be found:
- at www.bakersfieldcollege.edu
- in Admissions & Records on the Panorama Campus
- at the Delano Campus

Placement Testing
Complete if you have not already taken the Bakersfield College assessment test. If not, you must participate in assessment if you plan to:
- take an English, Math, or other class with prerequisites
- earn a degree
- earn a certificate
- transfer

Placement information can be found online at www.bakersfieldcollege.edu.

Students can request accommodations for disabilities by calling 395-4334.
Admission and Registration

Academic Eligibility
A high school graduate, or anyone who has a Certificate of Proficiency or a General Education Development degree (GED) may be admitted to Bakersfield College.

Any person 18 years of age or older who is not a high school graduate may be admitted if his/her previous training or experience indicates that he/she will profit from the offerings of the college. Such students must have the approval of the Director of Enrollment Services.

Special Status Admission/Concurrent Enrollment
In accordance with California Education Code regulations, K-12 students may enroll as special part-time students on a seats-available basis. Enrollment must be recommended by the high school principal, have parental consent, and receive approval by the college Director of Enrollment Services. Units earned may be used for high school or college credit or both. Students enrolled under this program are exempted from paying enrollment fees. Concurrent students may not register for courses below college level. Non-resident fees apply.

Residency Determination
A ‘resident’ is a student who has residence in the state of California for more than one year immediately preceding the residence determination date, which is the day before the first day of classes.

The resident of any California community college district may attend a community college in any other district in this state, subject to generally applicable admission criteria, and subject to any restrictions set forth in a notice of restriction issued by a district.

In order to determine a person’s place of residence, reference is made to the following statutory rules:

1. Every person has, in law, a residence.

2. Any person who is married or is 18 years of age or older and under no legal disability to do so, may establish residence.

3. In determining the place of residence the following rules are to be observed:
   a. There can be but one place of residence.
   b. A residence is the place where one remains when not called elsewhere for labor or other special or temporary purpose, and to which he/she returns in seasons of repose.
   c. A residence cannot be lost until another is gained.
   d. The residence can be changed only by the union of act and intent.
   e. A person’s residence shall not be derivative from that of his or her spouse.
   f. The residence of the parent with whom an unmarried child maintains his/her place of abode is the residence of the unmarried minor child. When the minor lives with neither parent, his/her residence is that of the parent with whom he/she maintained his/her last place of abode, provided the minor may establish his/her residence when both parents are deceased and a legal guardian has not been appointed.
   g. The residence of an unmarried minor who has a parent living cannot be changed by his/her own act, by the appointment of a legal guardian, or by relinquishment of a parent’s right of control, unless the student qualifies for the self-supporting exception.

In general, a resident has citizenship or permanent resident status in the United States and has established residence in California for at least one year immediately preceding the residency determination date (the day before the first day of classes). If you do not have citizenship or permanent resident status in the United States, or have questions regarding your status, please contact the Office of Admissions and Records in the Administration building room 7 or at 661/395-4301.
International Students
Students from countries outside of the United States are eligible to attend Bakersfield College if they have the equivalent of U.S. high school diploma, proof of English proficiency as indicated on the International Student Services website, and sufficient financial resources to pay all expenses.

Admissions Form
An admissions form may be completed on the college web page at www.bakersfieldcollege.edu. It must be filed prior to registration. The application should include the prospective student’s Social Security Number. The Social Security Number will not appear on class roll sheets.

Changing Identification Numbers
All students are assigned an identification number when a completed admissions form is submitted to the Office of Admissions and Records in the Administration building, room 7. Students may use the assigned numbers or their Social Security numbers to access their academic records.

Changing Directory Information
Students may change their name by bringing a photo identification to the Office of Admissions and Records, in the Administration building, room 7. They may change their address or telephone number on the web at www.bakersfieldcollege.edu. To do so they must select “Register for Classes,” login and then select “Personal Information.”

Passwords
When prospective students complete their admission forms online, they will be asked to create a password. The number must be 8-20 characters long, and contain letters and numbers. Students should select combinations they will be able to remember but that other people would be unable to know.

The first time that students login to register they will be asked to select a password hint question from a drop down menu. They fill in the answer to the question that they select with a one or two word answer. Then, when students forget their passwords, they can click the “Forgot Password” button, and if they enter the correct response, they will be given a screen on which to enter a new password. Call the Help Desk for assistance at (877) 382-3508.

Enrollment
All students are required to have an educational/career goal when they fill out their admission form. A student’s educational/career goal is his/her reason for attending college. Bakersfield College is committed to assisting students in successfully reaching their goals. This partnership between the college and the students consists of the following:

The college agrees to provide:
- An admission process
- A testing and placement process
- Academic advising to complete abbreviated and comprehensive educational plans
- Quality instruction
- A wide variety of courses
- Referral to support services as necessary
- Follow up services for academic progress

The college requires that students:
- Complete an orientation session
- Complete an orientation session
- Complete testing and placement
- Declare a specific educational objective or career path
- Create an abbreviated educational plan for their first semester
- Create a comprehensive educational plan after completing 15 units of coursework
- Attend classes regularly, complete assigned coursework and seek out support services as necessary
- Complete classes and maintain progress toward an educational/career goal as identified in the individual student education plan
- Seek out support services as needed

Assessment 661/395-4479
Academic skills assessment is designed to determine students’ entry level skills in reading, writing, mathematics, and English as a Second Language. Academic skills assessment may be waived by providing proof of eligibility for admission to a California State University with the appropriate combination of ACT and SAT scores and high school grade point average.

Assessment Policy for Students with Disabilities 661/395-4334
Persons with disabilities who might require testing accommodations should contact Disabled Student Programs and Services. In compliance with federal and state laws, Bakersfield College assures each student an equal opportunity to demonstrate competency or knowledge in a subject area at each point in the educational process. Students with disabilities are expected to demonstrate the same competency or knowledge as other students.

Accommodations are made on an individual basis. Such accommodations may include, but are not limited to, an extension of time, the use of a typewriter, the use of a computer, the use of a spell checker or calculator, the use of a tape recorder and, where appropriate to the disability, an alternative mode of assessment. These tests take place in the Assessment Center.
Precollegiate Pathways

Math Placement and Flowchart

New students are placed into a mathematics course one of the following ways:

- Completing the prerequisite class in the flowchart below
- Through the Bakersfield College Math placement test
- By earning “Ready for CSU college-level math courses” status on the EAP exam
- By passing the AP Calculus AB exam or AP Statistics exam with a score of 3 or above
- Submitting results from completed math assessment taken at another California community college
- By earning a ‘C’ or better grade in a mathematics course taken at another college or university AND submit a copy of college/university transcript to admission and records office
English Placement and Flowchart
New students are placed into an English course one of the following ways:
- Completing the prerequisite class in the flowchart below
- Through the Bakersfield College English placement exam
- By earning “Ready for CSU college-level English courses” status on the EAP exam
- By passing the AP English Language or Literature Composition Exam with a score of 3 or above
- Submitting results from completed English assessment taken at another California public college or university
- By earning a ‘C’ or better grade in an English course taken at another college or university AND submit a copy of college/university transcript to admissions and records office

Reading Placement and Flowchart
Many college level courses have reading prerequisites. The assessment course places students into the reading series which includes traditional and accelerated coursework to help students succeed in all their courses.
Policy for Students whose Primary Language is Not English

Persons whose primary language is not English are encouraged to take the English as a Second Language assessment in the Assessment Center at both the Panorama Campus and the Delano Campus. Orientation for students whose primary language is not English is scheduled on both campuses as well.

Exemptions

Only students who have completed an associate degree or higher may be exempt from orientation, assessment, and counseling; however, if a student wishes to enroll in a course that has a prerequisite, he/she must show proof of meeting the prerequisite or take the English, reading, or math assessment.

A student may also decline to participate in the matriculation process, but in so doing relinquishes the right to participate in early registration and may not be able to enroll in courses that have prerequisite requirements. Information is available in the Office of Admissions and Records in the Administration building, room 7 and the Counseling Center in the Student Services building.

Students have the right to challenge or appeal any allegation of violation of enrollment regulations. Challenges or appeals should be submitted to the Vice President of Student Affairs.

Course Admission Policy

The policy of the college is that, unless specifically exempted by statute or regulation, every course, course section, or class reported for state aid, wherever offered and maintained by the college, shall be fully open to enrollment and participation by anyone who has been admitted to the college and, when applicable, a relevant program, and who meets established prerequisites.

Prerequisites

Many Bakersfield College courses have basic skills or course prerequisites. These prerequisites are established to assist students in selecting courses for which they have the entry level skills. Students who believe that they have the entry level skills without the appropriate placement test score or previous course may challenge the prerequisite. Students have the right to:

1. Appeal a prerequisite course requirement because the required course is not available.
2. Challenge any prerequisite believed to be discriminatory.
3. Challenge any matriculation regulations/procedures that have the effect of being discriminatory based on how the services are applied to students.
4. Be provided alternative services for the matriculation process if necessary for ethnic and language minority students and students with disabilities.

Questions about challenges or appeals for a prerequisite or placement regulation/procedure should be directed to Advising and Counseling in the Student Services building.

Student Educational Plans (SEPs)

An SEP outlines a suggested course of study for the individual student based on major, transfer plans, and sequence of courses. Students are encouraged to meet with an advisor or counselor or attend an SEP Workshop to develop and update their plan each semester or when a change is made to their major, transfer institution, or other pertinent objectives. Students can make an appointment in the Advising and Counseling Center, located on the lower level of the Student Services building or call 661/395-4421.

Bakersfield College’s educational advising and counseling program’s purpose is to assist students in the development of meaningful educational plans which advance their progress toward a certificate, associate degree, or successful transfer to baccalaureate programs at campuses within either the University of California or California State University systems. The Transfer Center and the Advising and Counseling staff also assist students in identifying and understanding the transfer requirements at private colleges and universities. Additionally, academic advising services assist individuals in need of developmental educational opportunities as well as those who need to retool or retrain. Within this context, advisors and counselors assist students in developing educational plans compatible with a diverse set of career and life goals.

The best time to schedule an appointment for your SEP is:
- Fall Semester: September-October
- Spring Semester: February-March

Students who have completed lower division coursework at other colleges and universities and wish to apply that coursework to completion of a Bakersfield College certificate, associate degree, or to a California State University General Education Certification, or to an IGETC certification should have their transcripts officially evaluated. For more information, visit the Admissions and Records page on the student portal at inside.bakersfieldcollege.edu.

Early (Priority) Registration Appointments

Bakersfield College recognizes that students who complete all enrollment steps (Orientation, Placement, Testing, Advising and Counseling, and abbreviated and comprehensive Student Educational Plan) are more likely to reach their academic goals. These students are given special registration priority appointments. In order to ensure that students who are progressing successfully toward those academic goals have the opportunity to continue that progress, students who have attempted less than 100 units will be allowed to register earlier than those with over 100 units attempted. For their first semester of registration, students who receive earlier appointments will have completed these enrollment steps. The order of appointment assignments will be as follows:

- Students in special populations such as veterans who have been discharged within the last three years, foster youth, EOP&S, CalWORKS, DSP&S, President’s Scholars program, or athletics.
- Continuing students with less than 100 units attempted at Bakersfield College and prior year graduates of local high schools.
- New students not included above.

Continuing students who have not completed all four enrollment steps will be assigned appointments during the first few days of open registration based on the date they completed their admission/update forms.

Registering for Classes

All course registration takes place on Bakersfield College’s web registration system. Detailed instructions for the use of this system...
can be found in the Registration Information on the Bakersfield College website at www.bakersfieldcollege.edu.

Students must be officially registered or on the official waitlist before attending classes. Registration dates are indicated in the "About the College" section of this catalog and on the Bakersfield College website.

**Waitlists**

The electronic waitlist allows students to be moved into a class when seats are available. It is a true first-come, first-serve system. Students trying to register for classes that are closed will be able to select waitlist. During the weeks prior to the start of classes, when vacancies occur in classes, the first student(s) on the waitlist will be moved into the class. Students who are on a waitlist should check their registration regularly on the web. They will have ten days to pay for the class once they have moved into registered status. Students will not be charged the enrollment fees for waitlist classes until they are actually enrolled in the class.

Students should use the waitlist to ensure themselves a chance of getting into the classes they want.

Students on waitlists still must attend the first meeting of the class or be dropped from the waitlist. The prerequisite, basic skills, time conflict and repeat checks will prevent ineligible students from moving into the classes.

Students should drop themselves from a waitlist for any class that they no longer wish to take. If a new section of a class is opened at the same day and time as a section with a waitlist, students on the waitlist will be automatically enrolled into the new section.

**Maximum Study Load**

Students may enroll in a maximum of 19 units per semester and 7 units in summer. Students with strong academic records may be cleared to enroll in more units by completing an overload request form in the Advising and Counseling Center.

**Minimum Study Load**

Students must enroll in a minimum study load in order to meet certain qualifications such as:

1. Certification as a full-time student to the Department of Health and Human Services: 12 units.
2. Approval by the Veterans Administration for training under Chapter 31, 32, 33, 34, 35 or 1606, Title 38 U.S. Code.
3. F-1 Visa (foreign) student status: 12 units.
4. Eligibility to participate in intercollegiate athletics: 12 units (Repeated courses, previously passed with a C or higher cannot be counted.) Student athletes must maintain a C average (2.0 grade point average) or higher.
5. Eligibility to participate in student government as an office holder: 6 units.

**Academic Success and Progression**

According to the Kern Community College District Board of Trustees Board Policy Manual pages 48 and 49, students must display academic progress in order to graduate from a program of study or meet minimum requirements for prerequisites.

4D1C - 18 units of study must be completed in a discipline or from related disciplines as listed in the Community Colleges' Taxonomy of Programs. Each course counted in this section must be completed with a grade of 'C' or better, or a 'P' if the course is taken on a pass/no pass basis.

4D1D - 18 semester units of general education must be completed and shall include at least 1 course in each of the following areas:

1. Natural Sciences
2. Social and Behavioral Sciences
3. Humanities
4. Language and Rationality

A course designated by each College as meeting the Ethnic Studies requirement must be taken in at least one of these 4 areas. Courses counted to meet this general education requirement must be completed with a grade point average of 2.0 or better.

4D2B2 - The colleges may award locally approved certificates with fewer than 18 units that certify that a student has completed a credit course or a sequence of credit courses to meet documented workplace needs/standards by demonstrating a level of knowledge, skill(s), and ability(ies) sufficient to earn a minimum grade of 'C' in each required course.

**Repeating a Course**

Certain Bakersfield College courses are identified in the course description sections of the catalog as repeatable, with the number of times they may be repeated indicated.

Other courses may be repeated once for credit if a grade lower than C or its equivalent has been earned. Only second attempts will replace the first substandard grade. The original and subsequent grades will remain a part of the student's permanent record.

If a student earns any combination of 'D', 'F', or 'W' on two attempts in a course taken in the Kern Community College District, that student can only register for a third time with the signature of the faculty chair of the department on a Request to Repeat a Course Beyond the Limit form. This form is available from the Office of Admissions and Records in the Administration building, room 7.

In compliance with Title 5 California Code of Regulations Section 56029, certain course repeats may be authorized for students with disabilities following DSPS policies and procedures.

Courses may also be repeated if the previous grade is at least in part a result of extenuating circumstances such as verified cases of illness, accidents, or other circumstances beyond the control of the student. Approval to repeat under these circumstances should be obtained prior to registration in the Office of Admissions and Records in the Administration building, room 7. In these circumstances, the previous grade will not be disregarded in the calculation of the GPA.
A student may repeat a course to meet a legally mandated training requirement as a condition of continued paid or volunteer employment. The course may be repeated for credit any number of times, regardless of whether or not substandard work was previously recorded, and the grade received each time shall be included for purposes of calculating the student’s grade point average.

The college can provide no assurance that repeated courses will be treated in a similar manner by other educational institutions.

**Remedial Coursework Limitation**

Remedial coursework refers to precollegiate basic skills courses defined as courses in reading, writing, computation, learning skills and English for Multilingual Students, which are designated as non-degree credit courses. No student shall receive more than thirty (30) semester units of credit for remedial coursework within the Kern Community College district, except for the following:

1. students currently enrolled in one or more courses of English as a Second Language
2. students identified by Bakersfield College as having a qualifying disability

**Auditing a Course**

Students who have been admitted to the college may enroll in courses as auditors with the permission of the instructor and subject to the following provisions:

1. Priority shall be given to students who wish to take the course for credit.
2. A student in a course shall not be permitted to change from audit to credit status nor from credit to audit.
3. The cost to audit a class is $15 per unit. (Students enrolled in 10 or more other units will not be charged this fee.)

Course Audit Forms are available in the Office of Admissions and Records in the Administration building, room 7 beginning on the first day of class.

**Holds that Prevent Registration**

**Financial Holds**

Holds may be placed on a student’s record whenever that student is delinquent or has failed to pay any debt owed to the college or failed to return any library books or other college property or equipment. Students with holds will not be allowed to receive transcripts, certificates or diplomas; have transcripts forwarded; and/or receive other services related to student records. They may not be allowed to register. When the student has cleared the obligation with the Office of Business Services at Bakersfield College, the hold will be removed.

**Academic Standing**

A student who is not in good academic standing will have a hold placed on his/her record until he/she attends an online workshop to make plans to improve his/her grades. These holds will prevent registration.

**Probation**

Academic Probation—A student who has attempted at least 12 cumulative semester units shall be placed on academic probation when he/she has earned a cumulative semester grade point average below 2.0.

Progress Probation—A student who attempted at least 12 cumulative semester units shall be placed on progress probation when the percentage of all units for which entries of 'W', 'I', 'NC' and 'NP' reaches or exceeds 50 percent.

Students transferring from other collegiate institutions will be placed on probation according to these same standards.

Students on probation may be limited to specific courses and to the number of units for which they may register. The academic status of each student is printed on the student transcript which is updated at the conclusion of each academic term.

**Removal From Probation**

A student on academic probation for a grade point deficiency shall be removed from probation when the student’s cumulative grade point average reaches 2.0 or higher.

A student on progress probation shall be removed from probation when the percentage of 'W', 'I', 'NC' and 'NP' units falls below 50 percent.

**Disqualification**

Any student who is placed on academic probation for three consecutive semesters of enrollment shall be disqualified from admission to classes the following semester unless, during the last semester of enrollment, the student earned a grade point average of 2.0 or higher, in which case the student shall be placed on continued probation.

Any student who is placed on progress probation for three consecutive semesters of enrollment shall be disqualified from admission to classes the following semester, unless during the last semester of enrollment, the percentage of units with entries of 'W', 'I', NC and 'NP' was less than 50 percent, in which case the student shall be placed on continued probation.

**Reinstatement**

A student who is disqualified may be ineligible to attend Bakersfield College. He/she may be conditionally readmitted the following semester upon petition to the Advising and Counseling Center. A readmitted student may be restricted to specific courses or programs, and a limitation will be placed on the number of units attempted. Reinstatement application forms may be obtained in the Advising and Counseling Center, located on the lower level of the Student Services building.

**Alternate Class Formats**

**Distance Learning 661/395-4635**

Distance Learning consists of courses offered from a wide variety of disciplines using non-traditional delivery methods: interactive, online, and hybrid. Dependent upon semester scheduling, Distance Learning provides additional educational options to anyone seeking a college education: students dealing with family and/or job commitments, time limitations or transportation difficulties, individuals willing to explore a less traditional presentation of course content, and students who choose to not come to campus for traditionally presented classes. Regardless of the mode of delivery,
students receive the same course content described in the catalog and will have the same course expectations.

Bakersfield College offers a variety of online courses, allowing students to self-select classes free of any geographic and time boundaries. It is vital that students have a basic understanding of computer usage, dependent access to the internet, and know how to send and receive e-mail.

Bakersfield College interactive courses connect with classrooms on the Delano Campus, 35 miles north of Bakersfield. Interactive classes may also connect with classes at Porterville College and/or Cerro Coso Community College. Instructors may teach from an origination site at any of the campuses, using real-time two-way video/two-way audio technology. Students benefit from interactivity with students enrolled at one or more remote locations.

Hybrid courses use the internet as the predominant delivery method combined with traditional face-to-face classroom sessions. Students must be able to come to the main Bakersfield College campus for an orientation session during the semester as well as have access to and be able to use the internet.

**Learning Communities, Compressed, and Accelerated Courses 661/395-4433**

Bakersfield College offers learning communities, compressed and stacked, and accelerated courses. All give students the opportunity to develop necessary college skills and complete courses while gaining individual support within an organized group of learners.

In a learning community, students are enrolled in two linked courses, with the same cohort, or group of students. In a learning community, the courses may have a theme, such as the African-American Experience Learning Community, which is part of the African-American Success through Excellence and Persistence (ASTEP) program. In a compressed and stacked course, two sequential courses are combined, which allows students to complete sequential courses in one semester instead of two or more. Typically, the content of a single course is compressed into an eight-week segment, which is followed immediately by the next course in the sequence, also taught in a compressed format for eight weeks. Notably, students register for the two sequential courses or two linked courses at the start of the semester, but will earn credit for both classes once they complete the sequence.

Bakersfield College continues to offer a variety of learning communities and compressed and stacked courses that combine a variety of courses, most typically in English, math, and study skills. At least one option is offered each semester. Check the schedule of classes under a learning community search to locate the most current learning community and compressed and stacked courses being offered.

An accelerated course is a redesigned course that is open to students who test into more than one level, and that includes increased support. Currently, students at the English placement level of 04 (English 60) or 05 (English 50) level are eligible to take English B53. In this course, students will strengthen their critical thinking and their ability to develop arguments at the college level, and those who are successful in English B53 will be eligible for ENGL B1A. Check the schedule of classes under English to find available sections of English B53.

**Cooperative Work Experience Education 661/395-4550**

1. General Work Experience Education (WEXP B250) is supervised employment which is intended to assist students in acquiring desirable work habits, attitudes and career awareness. The work experience need not be related to the students’ educational goals. Contact the Office of Career Technical Education for more information.

2. Occupational Work Experience Education (WEXP B248) is supervised employment extending classroom based occupational learning at an on-the-job-station relating to the students’ educational or occupational goal. Work experience credit may be transferable to many colleges and universities. Contact the Office of Career Technical Education for more information.

**Basic Skills/Precollegiate Coursework**

Basic skills courses teach fundamental skills in reading, writing, computation, and study skills that are applicable to any area of study. They provide open access, support services, basic skills courses, resources, and equipment and technology to California Community College students. Basic skills courses are offered in the Academic Development (ACDV), English (ENGL), English for Multilingual Students (EMLS), and Mathematics (MATH) Departments.

The term "Basic Skills" comprises many areas. The essence of college in general, and basic skills in particular, is to develop skills which will allow students to think abstractly, understand complex concepts, synthesize information, solve multi-step problems, read books and articles, communicate effectively, and leave college with the ability to live, work, and become involved in issues and activities within the community (Winston, R. “Basic Skills: the Promise of Access for California Community College Students,” FACCCCTS, Spring 2007: 17-18. Print).

Incoming Bakersfield College students take computerized placement tests that determine their entry levels in reading, writing, and mathematics. Students are encouraged to take their Academic Development, English, Reading, and Math courses early in their college career, as research shows that basic skills courses improve student success rates.

State regulations set a maximum of 30 units for basic skills courses taken by any student. If a student’s skills are such that more than 30 units will be required to reach college level, that student will be counseled regarding other possible ways to build those skills. Exempted from the 30-unit limitation are students enrolled in English for Multilingual Students (EMLS) courses and students identified as having a disability.

**Delano Campus 661/720-2000**

The Delano Campus provides the community with access to Bakersfield College programs and services. Students live in Delano and the rural communities of northern Kern and southern Tulare counties. Day and evening general education, transfer and vocational courses are available to help students obtain an Associate in Arts degree or technical certification. Student and instructional support services include Counseling, Financial Advising, Educational Advising, Assessment Testing, Disabled Student Programs and
Services, Extended Opportunity Programs & Services, Computer Lab, Multi-Subject Tutoring, Admissions, Registration and more. The Delano Campus is located at 1450 Timmons Avenue, Delano, California.

**Weill Institute Compliance School and Entrepreneur School 661/336-5010**
The Weill Institute is located in downtown Bakersfield at 21st Street and Chester Avenue (with parking and main entry in the parking lot off of L Street). The evening instructional program provides a variety of vocational, general education, and transfer courses. Both semester-length and short-term courses are available.

**Weill Institute Business Center 661/395-4104**
The Weill Institute Business Center provides economic and workforce development services. The needs of business, industry and the workforce are met with a highly-skilled staff that provide customized training, job skill assessment, bilingual training, performance consulting, organizational development, and many other services. The Business Center also operates the California Compliance School and the Regional Environmental Business Assistance Center.

Also located at the Weill Institute Business Center is the Business Assistance Center, which operates under grants from the U.S. Small Business Administration, the Chancellor's Office of California Community Colleges, and other agencies. The Business Assistance Center offers free counseling to small business owners and individuals interested in starting a business in Kern, Inyo, and Mono counties. Affordable seminars and workshops are held on a regular basis for practical guidance in owning and operating a small business.

**College Fees, Tuition, Books, and Fee Refunds**

**Community College Enrollment Fees**
Enrollment fees are set by the state of California. Enrollment fees are $46 per unit for the 2015-2016 academic year. If the state of California increases the fees, a supplemental bill will be sent to all students.

**Nonresident Tuition Fee**
Nonresident students are required by state law to pay tuition in addition to enrollment fees. The tuition fee for nonresident students is $200 per unit up to a maximum of 15 units per semester. There is an additional $46 per unit capital outlay fee for non-residents.

**California Nonresident Tuition Exemption For Eligible California High School Graduates**
A law was passed by the Legislature in 2001 known as "AB 540." Any student, other than a non-immigrant alien, who meets all of the following requirements, shall be exempt from paying nonresident tuition at the California Community Colleges, the California State University and the University of California.

Requirements:
- The student must have attended a high school (public or private) in California for three or more years.
- The student must have graduated from a California high school or attained the equivalent prior to the start of the term (for example, passing the GED or California High School Proficiency exam).

- An alien student who is without lawful immigration status must file an affidavit with the college or university stating that he or she has filed an application to legalize his or her immigration status, or will file an application as soon as he or she is eligible to do so.

Students who are nonimmigrant [for example, those who hold F (student) visas, B (visitor) visas, etc.] are not eligible for this exemption. The student must file an exemption request including a signed affidavit with the college that indicates the student has met all applicable conditions described above. Student information obtained in this process is strictly confidential unless disclosure is required under law. Students eligible for this exemption who are transferring to another California public college or university must submit a new request (and documentation if required) to each college under consideration. Nonresident students meeting the criteria will be exempt from the payment of nonresident tuition, but they will not be classified as California residents. They continue to be nonresidents. Non-resident students meeting the criteria will be exempt from the payment of non-resident tuition. Students meeting the criteria will be classified as AB540. AB540 students will be considered for state aid through the California Dream Act application but not for federal financial aid. Please contact the Office of Financial Aid for details.

To request this exemption, a student must complete the form in the Office of Admissions and Records in the Administration building, room 7. Students may be required to submit additional documentation. Contact the Office of Admissions and Records in the Administration building, room 7 if you have questions.

**Student Health Fee**
A $13 student health fee has been authorized by the Board of Trustees for all students during the fall or spring semester. The fee is $10 for summer session. The purpose of the fee is to make health-center services available to all students and to provide greater healthcare educational programming.

The following health fee exemptions are authorized by law:

1. Students who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization.
2. Students who are attending a community college under an approved apprenticeship training program.

Exemption forms are available in the Office of Admissions and Records in the Administration building, room 7.

**Student Center Fee**
Bakersfield College students shall be assessed a Student Center Fee of $1 per unit for courses on the main campus up to a maximum of $5 per fall semester and $5 per spring semester. The fee shall not be assessed for summer session enrollment.

**Student Representation Fee**
A student representation fee of $1 is charged to all students. This fee will be used by the Student Government Association for:
- Attendance at conferences and meetings of student non-partisan organizations.
- Organizational dues and/or special donations to statewide student organizations or any other recognized student
lobby association that works on behalf of community college students.
- Purchase of equipment used for lobbying and/or advocacy such as computers, printers, faxes, modems, software, and accessories.
- Subscriptions to newsletters and/or magazines of higher education.
- Travel expenses for lobbying and/or advocacy for students.
- Leadership training, awareness, and information.
- Hosting non-partisan conferences of legislative issues.

SGA Discount Card
The SGA discount card, which allows a 5% discount at the Bakersfield College Bookstore, may be purchased for a $15 fee. Contact Student Activities Office at 661/395-4355.

Parking Fees
Parking is restricted to parking permit holders during all twelve months of the year. A semester parking permit is $40 and a summer permit is $25. Parking permits are not required on weekends. Visitor parking and handicapped parking is enforced at all times. To obtain a student permit go to: www.bakersfieldcollege.edu/campus/parking.

Books
It is estimated that the cost of books and supplies will be $650 to $850 per semester for a 15-unit schedule. Books may be purchased or rented at the college bookstore, which is open year-round except during college holidays.

Refunds
Enrollment and Tuition Refunds
Enrollment and tuition fees will be credited to the student account, when applicable, for program changes through the first two weeks of the fall or spring semester only. In courses other than semester length, the Office of Admissions and Records in the Administration building, room 7 should be consulted regarding withdrawal and refund deadlines.

To receive the enrollment or tuition refund, a student must apply for the refund in the Business Services Office before the end of the second consecutive semester of non-attendance. Summer session is not considered a semester. If a student does not apply for a fee refund within this time frame, funds will revert to the Kern Community College District.

Should the college cancel a class in which a student is enrolled and there is a reduction in units which results in a lower fee, the student should request a refund through the Business Services Office.

Student Health Fee Refund
Health fees will be credited to the student account when applicable, if all classes are dropped and an enrollment fee credit is generated by the transaction. To receive the health fee refund, a student must apply for the refund in the Business Services Office before the end of the second consecutive semester of non-attendance. Summer session is not considered a semester.

Attendance Policies
Class Attendance
Regular class attendance is expected of all students enrolled in the college. It is especially important that students attend the first sessions of each class for it is during those classes that instructors may distribute syllabi and course requirements and explain what is expected in terms of attendance. Students enrolled in classes that are full may be dropped by the instructor if they do not attend the first class sessions. Students on a course waitlist should also attend the first class meeting to avoid being dropped.

The attendance policy for each course is established by the instructor and communicated to each class in writing. Attendance policies will be reasonably related to course objectives, the requirements of institutional reporting, and legitimate absences. Instructors are responsible for maintaining accurate attendance and scholarship records.

While it is the responsibility of instructors to communicate attendance policies and to apply them equally to all students, it is the responsibility of students to know the policy in each of their classes and to be aware of their current attendance status. Students who have been absent from a class should notify the instructor of the reason for the absence. Absence in no way relieves students of responsibility for work missed. Excessive absence may result in the student being dropped from the course. After drops of first day absentees and waitlist absentees, instructors may drop a student from a course when absences number the equivalent of two weeks of class recorded from the first day of instruction.

Instructors may give consideration to excusing students from classes to participate in scheduled college activities; e.g. athletics, music, field trips, etc. The student must make arrangements in advance to make up the work to be missed.

Students are responsible for officially withdrawing from any class or classes in which they no longer wish to be enrolled. Non-attendance does not release the student from this responsibility.

First-Day Drop Policy
Because many classes become filled and are closed, students in lecture and/or lab courses may be dropped if they do not attend classes during the first two weeks without notifying the instructor.

Students in open entry courses may be dropped if they do not begin attending during the first week of classes.

Distance Learning Attendance and Non-Participation Policy
All students enrolled in distance learning courses must log in to each course and complete any assignment or other activity, to be determined by the instructor, that are required during the first week. Students who fail to complete first week assignments/activities within the instructor’s deadline may be dropped.

After the first week and during the time period before the final withdrawal date, “students are responsible for officially withdrawing from any class or classes in which they no longer wish to be enrolled,” as stated in the Bakersfield College Catalog. (See the catalog section “Withdrawing From Classes” for additional details.)

The Bakersfield College Attendance Policies: Class Attendance states that “instructors may drop a student from a course when absences number the equivalent of two weeks of class recorded from the first day of instruction.” In the case of distance learning, “absences” shall be defined as “non-participation.” Instructors may drop students
after the equivalent of two weeks of non-participation from the first day of class. Non-participation shall be defined as, but not limited to:

- Not following the instructor’s participation guidelines as stated in the syllabus
- Not submitting required assignments
- Not contributing meaningful discussion in required chat rooms, discussion boards, or other online forums
- Not participating in scheduled activities
- Failure to communicate with the instructor as required

It should be noted that simply logging into the course does not constitute participation. Students must demonstrate that they are actively participating in the course by submitting required assignments, contributing to discussion forums, etc. as outlined above.

**Withdrawing from Classes**

Students are responsible for officially withdrawing from any class, classes, or waitlist in which they no longer wish to be enrolled. After registration has been completed, and within the withdrawal date guidelines, students may drop a class or classes through the web registration system. Non-attendance or non-payment does not release the student from this responsibility and may result in a failing grade being awarded.

Within the withdrawal date guidelines, instructors may drop students from a course for nonattendance, disruption, or failure to meet the requirements of the course.

A student who withdraws or is dropped from a semester-length course through the 20 percent date of any term will not have the course included on the permanent record. A ‘W’ will appear on the permanent record for courses dropped between the 20 percent date and the 60 percent date of the term. No ‘W’ grades may be issued after the 60 percent date. In courses other than semester length, the instructor or Office of Admissions and Records in the Administration building, room 7 should be consulted regarding withdrawal date deadlines.

A student may contact the Office of Admissions and Records in the Administration building room 7, regarding the procedure to drop or withdraw after the final withdrawal date deadline if there are verifiable extenuating circumstances. Examples of verifiable extenuating circumstances may be: accidents, illness, death of an immediate family member, or other circumstances beyond the control of the student. This must be done by the last day of classes and prior to the beginning of the final examination period for the term in which the withdrawal will apply. Withdrawal after the end of the 14th week of the semester (or 75% of the semester, whichever is less) when the college has authorized such a withdrawal in extenuating circumstances, after consultation with appropriate faculty, shall be recorded as a ‘W’.

A ‘W’ is not used in calculating grade point averages, but excessive W’s will be used as factors in progress probation and disqualification.

Students who find it necessary to withdraw from the college are required to return all check-out supplies, equipment and library books, and pay all fines and debts owed the college.

**Transcripts**

Upon written application by the student, a transcript of all work completed at Bakersfield College will be prepared and forwarded to any college, university, employer, or individual designated by the student. The first two transcripts are provided free; thereafter, a fee of $4 is charged for each transcript. Transcript requests are submitted to the Office of Admissions and Records in the Administration building, room 7. The form can be downloaded online at www.bakersfieldcollege.edu by clicking Transcripts and following the on-screen directions. Orders are processed within eight working days. An additional fee of $8 is charged for processing a transcript ‘rush’ request within 2 hours. To receive a transcript with same day service, the request must be made before 3 p.m. Monday through Thursday or before 9:30 a.m. on Friday.

Students have the right to notify the college not to include their date of birth in their transcripts. A date of birth is a very useful identifier, and students are encouraged to have it displayed on transcripts. However, under the law, students have a right to request that their date of birth not be displayed on their college transcripts.

**Verification of Enrollment**

**Current Semester**

The Office of Admissions and Records in the Administration building, room 7 will complete a verification of enrollment upon written request by the student. A fee of $2 is charged for each verification. The $2 fee is waived for financial aid academic progress verification.

**Past Semester(s)**

Past semester(s) can be verified by ordering unofficial transcript.

**Student Schedule of Classes**

Individual student class schedules are available on the Bakersfield College website at www.bakersfieldcollege.edu.
Student Services

Advising and Counseling Department
661/395-4421 / 661/720-0000 (Delano)

Program Mission Statement:
Academic Advising and Counseling at Bakersfield College is an on-going, intentional, educational partnership dedicated to student academic success. The college is committed to an academic advising and counseling system that guides students to:

• Discover and pursue life goals;
• Support diverse and equitable educational experiences;
• Advance students’ intellectual and cultural development; and
• Teach students to become engaged, self-directed learners and competent decision makers.

Comprehensive academic and vocational advising and counseling services are available to all Bakersfield College students in the Advising and Counseling Center, located on the lower floor of the Student Services Building on the Panorama Campus and at the Delano Campus.

Educational advising for:
• Career and Technical majors is available in the FACE 16 (395-4089)
• Allied Health students is available in MS 153 (395-4476)
• Science, Technology, Engineering, and Mathematics majors (STEM) in SE 40 (395-4811)
• Student athletes in GYM 9 (395-4681)
• Veterans in CC (395-4312)

Counselors and advisors are able to provide students with guidance in the following areas:

• Reviewing student assessment (placement) test results and other information to determine appropriate course options;
• Exploring academic and educational goals and identifying possible educational options;
• Developing abbreviated and comprehensive educational plans;
• Explaining certificate programs and degrees available at Bakersfield College;
• Assisting with identification of transfer options and course requirements for University of California (UC), California State University (CSU), independent, and out-of-state institutions, and;
• Providing referral information to other student support service programs on the BC and Delano campuses, as well as to other off-campus resources.

In addition to one-on-one advising and counseling sessions, the center also provides answers to questions, drop-in advising, New Student Counseling workshops, Educational Planning workshops, and transfer-related workshops throughout the academic year. Counseling faculty also teach student development courses for educational planning, career development, and student success. Students will find these courses listed in the online class schedule under “Student Development.”

Other Advising and Counseling functions include:
• Outreach/support to incoming high school students
• Orientations, both face-to-face and online sessions
• International Students Program
• Support for students on probation
• Student Peer Advocate Leaders (PAL)

The Advising and Counseling Center at the main campus is located in the Larry Robinson Counseling Center, on the lower floor of the Student Services (SS) Building. In the Delano Center, Counseling Services are located in Science and Technology and the A&R buildings at the Delano Campus.

Follow Up Support Services
Helping you stay in college is important to us. We realize that there are many reasons why students fall behind in their work, drop classes, and perform lower than the required minimum cumulative grade point average of 2.0. Advisors, counselors, and other support staff will work with students experiencing difficulty. If you fall into academic difficulty and are placed on academic or progress probation or dismissal, counselors can help you create a
personalized student success plan to get back on track. If you are on probation, a hold will be placed on your registration, and you will be required to take an online probation workshop.

**Testing and Placement 661/395-4479**

The Bakersfield College Assessment Center offers the following tests: AccuPlacer, the College Level Examination Program, the Automotive Excellence Tests, and other testing programs. Students may call the Assessment Center for schedule information.

A student parking permit is required to park in all parking lots. Day permits are available at the dispensers located in all parking lots.

**Athletics 661/395-4266**

**Athletics Educational Advisor 661/395-4681**

The Bakersfield College Athletics program started in 1922 and is known for its quality, its success, and the sportsmanship of its students. Over the years former Renegade student athletes, coaches and staff have returned to support the Bakersfield College Athletics program. Community support also plays an important role and is demonstrated by attendance at sporting events and by contributions from the community. This sense of Renegade pride and loyalty contribute to the strong foundation of today’s athletic program.

Bakersfield College has over 400 Renegade student athletes annually. The nine women’s sports include: basketball, cross country, golf, soccer, softball, swimming, tennis, track and field, and volleyball. The nine men’s sports include: baseball, basketball, cross country, football, golf, swimming, tennis, track and field, and wrestling. Collectively these programs have accumulated 168 Conference Championships, 13 State Championships, and 10 National Championships.

Bakersfield College is a member of the Western State Conference and is governed by the California Community College Athletic Association. Bakersfield College student athletes are supported by a dedicated coaching staff, certified trainers, equipment personnel, and an athletic educational advisor. Every effort is made to ensure compliance with the regulations of the Western State Conference, the CCCAA, and the NCAA transfer rules.

Renegade student athletes are privileged to compete on the grounds of one of the premier community colleges in the nation. Memorial Stadium is arguably the most recognizable and note-worthy venue in all of community college sports. This iconic and historic facility is home to the Renegade football team, as well as the track and field teams. National championship teams and world records are the hallmarks of Memorial Stadium.

The Dean and Adah Gay Sports Complex is home to the softball field and Gerry Collins Baseball field. CCCAA Softball State Championships has made this facility their home since May 2010. In May 2012, both softball and baseball championships were held at the complex. The volleyball, wrestling, and basketball teams all compete in the Gil Bishop Sports Center.

The philosophy of the Bakersfield College Athletics Program mirrors a code of conduct that exemplifies hard work, commitment, and accountability—to act like a winner on and off the fields and courts of play. Sportsmanship, as well as achieving their potential as productive members of the community, is expected of all Bakersfield College student athletes.

As the Bakersfield College Athletics Department celebrates 92 years, it strives to continually build on the great tradition of The Renegade Legacy.

**California Work Opportunities and Responsibility to Kids (CalWORKs) 661/395-4351 / 661/395-4047**

The CalWORKs Program is a state funded program. CalWORKs is designed for students enrolled at Bakersfield College who receive CalWORKs/TANF and are not sanctioned. The program can assist these parents with work opportunities and other educational expenses related to attendance at Bakersfield College. CalWORKs also provides special services which include academic, career, and personal counseling; workshops for academic success; work study; holiday celebration/spring picnic; awards/recognition ceremonies.

The Bakersfield College CalWORKs Program additionally offers confidential liaison and advocacy between students, the college, the Department of Human Services, and other community agencies. For additional information on CalWORKs and eligibility for these services, please contact the CalWORKs Office. Interested students must attend an orientation. The Kern County Department of Human Services is also on campus at least once a week during the semester to assist students. The CalWORKs Office is located on the second floor of the Student Services Building.

**Child Development Center 661/395-4368**

The Child Development Center and State Preschool provide a comprehensive early care and education program that serves college student families and their preschool age children. Placement in the program follows state guidelines to assign each family a priority rank based on income and family size. First priority enrollment is given to those with documented need for services who are Kern Community College District students working towards a specific profession or career goal. Our services support and assist student families to successfully complete their college courses and achieve their goals. In addition, the Child Development Center provides demonstration/observation laboratory classrooms for college students majoring in child development, health careers, and other helping professions. Student interns can gain hands-on experience in best practices classrooms working with children under the supervision and direction of our licensed teachers.

The center is primarily funded through the California State Department of Education and is licensed through the California Department of Social Services. All teachers have professional training in child development/early childhood education and are certificated through the California Commission on Teacher Credentialing.

The Child Development Center also has a State Preschool Program on campus offering two part day sessions available to the community. The morning session is 8:30-11:30, and the afternoon session is 12:30-3:30. Both sessions are held Monday through Friday. Lunch is provided for both sessions. Children must be 3-5 years of age and meet state income guidelines.

Applications can be found at www.bakersfieldcollege.edu/student/cdc. Click on Apply Now! Follow the instructions to drop off or mail...
Computers for Student Use 661/395-4696
Use of the instructional computers by students at Bakersfield College is encouraged. Access to academic computing services is a privilege enjoyed by all students. The Computer Commons, located in the Library, is an open lab. Student workers are available to assist students in the use of these computers.

Unauthorized access or use of academic computing facilities is a violation of Section 502.b-c of the California Penal Code. Offenders will be disciplined and/or prosecuted in accordance with existing college policy and California law. For details of campus computer policies, see the student handbook, which is available from the Student Government Association in Campus Center, room 4.

Career Center
The Career Center is located in the Larry Robinson Counseling Center. The virtual Career Center website can be found at www.bakersfieldcollege.edu/career_center. The Bakersfield College Career Center provides resources assist students in making career choices that match their interests and natural talents. Resources include self-assessments and career information. The center is designed to meet the needs of all students in the career development process.

Disabled Student Programs & Services

Panorama Campus 661/395-4334
Delano Campus 661/730-2000

Disabled Student Programs & Services assists the college in providing equal access to educational opportunities for students with disabilities. Disabled Student Programs & Services provides reasonable accommodations to students with documented physical, communication, psychological, developmental, and learning disabilities who are enrolled in classes through Bakersfield College. The department provides accommodations and support services which may include, liaison with California State Department of Rehabilitation and other community resources, test taking assistance, special equipment, mobility assistance, note taking, assistive computer technology, special classes, sign language interpreters, written materials in alternate format, and learning disability assessment. These services are intended to prepare and support students to participate on an equal basis with their non-disabled peers. For college material in alternate format, contact Disabled Student Programs & Services.

ESL Tutoring 661/395-4570

The ESL Tutoring Program provides tutoring sessions for both international/foreign students and students whose first language is not English. Students benefit from this service by improving their language and reading skills and therefore their successful completion of course work in language skills.

Extended Opportunity Programs and Services (EOP&S) and Cooperative Agencies Resources for Education (CARE) 661/395-4351

The EOP&S Program is a state funded program serving students from low-income and educationally disadvantaged backgrounds. Services include academic, career, and personal counseling, peer mentoring, financial aid advising, scholarship information, transfer assistance, books, and other support services. The EOP&S Program’s primary goal is to encourage the enrollment, retention, and transfer of students with educational disadvantages to facilitate the successful completion of their goals and objectives in college. Students must complete the Free Application for Federal Student Aid (FAFSA) to determine eligibility and be enrolled in full-time coursework (12 units).

The CARE component offers additional grants and/or services to full-time students who are single parents, TANF recipients, and have as least one child under the age of 14. CARE participants must qualify for financial aid. Services offered include peer mentoring, counseling, tutoring referrals, single-parent workshops, follow-up support, and special events.

For additional information on EOP&S/CARE and eligibility to receive these services, please contact the Office of EOP&S/CARE. The Office of EOP&S/CARE is located on the second floor of the Student Services Building. EOP&S services are also offered at the Delano Campus.

To apply, print the EOP&S application found at www.bakersfieldcollege.edu/student/eops and submit to the Office of EOP&S.

Financial Aid

Panorama Campus 661/395-4428
Delano Campus 661/725-2011

Students seeking financial assistance to meet the costs of education are encouraged to contact the Office of Financial Aid, located in the Student Services Building (SS 150). A variety of grants, scholarships, and part-time employment opportunities are available for students who qualify on the basis of financial need, enrollment in six or more units leading to a degree or certificate, and satisfactory academic progress.

All students are encouraged to complete the Free Application for Federal Student Aid at www.fafsa.ed.gov to be considered for the following programs. The financial aid priority filing date is March 2.

Board of Governors Waiver

The Board of Governors Waiver is supported by the state of California and waives the enrollment fees for eligible California residents. The Board of Governors Waiver is available for students who have already qualified for other types of financial aid and for students who have exceptionally low income including recipients of TANF, SSI, or General Assistance.

Book Vouchers

Book vouchers are available for Pell Grant-eligible students to purchase books and supplies.

Cal Grant B
Cal Grant B is for students from disadvantaged and low income families.

Cal Grant C
Cal Grant C is for students enrolled in a vocational program.
Extended Opportunity Program and Services (EOP&S)
Extended Opportunity Program and Services is a state-funded program offering access and retention services, including books, for low-income, educationally disadvantaged students.

Cooperative Agencies Resources for Education (CARE)
Cooperative Agencies Resources for Education is a state-funded program offering supportive services and financial assistance for low-income, single parent EOP&S students.

Federal Pell Grant
Federal Pell Grants are a grant program based upon need, cost of attendance, and level of enrollment.

Federal Supplemental Educational Opportunity Grant
Federal program that provides additional grant assistance for students with exceptional financial need.

Federal Work Study
On campus employment is available through Federal Work Study, a federally funded program for students who can demonstrate financial need and enrollment in six or more units. Employment is used to fund college expenses.

Scholarships
Cash awards provided by the Bakersfield College Foundation and local groups and organizations for students who can demonstrate academic merit and/or financial need.

Information concerning financial aid programs at Bakersfield College can be obtained by personal contact, by phone, or at www.bakersfieldcollege.edu/finaid. After you have applied for financial aid, you may check your financial aid status by logging in to InsideBC at inside.bakersfieldcollege.edu.

Student Health and Wellness Program 661/395-4336
The Student Health and Wellness Program is located in the Campus Center. To schedule appointments for any services, come to the clinic. Walk-ins are also welcome.

Medical Services
The Student Health and Wellness Program Center provides diagnosis and treatment of a wide variety of general medical conditions. The services meet many student healthcare needs, including acute conditions such as fevers, respiratory illnesses, stomach pains, sprains and strains, skin rashes, and minor surgical procedures. The Center also treats and manages patients with chronic conditions such as asthma, diabetes, and other diseases. Physicals, TB testing, and some vaccines are available free of charge. Students can access medical services free five times per semester. Student health insurance coverage is available for campus-related injuries.

Health-related literature and a variety of over-the-counter medications are available free of charge.

Mental Health Services
The Student Health and Wellness Center offers services to address students’ mental health concerns. Students are eligible to receive six free one-hour short term counseling (talk therapy) sessions per semester. Group therapy self-improvement classes are also available.

Mentoring and Peer Program Services (MAPS)
The Student Health and Wellness Program utilizes the expertise of students who are trained to provide educational programs and outreach. The peer education program known as MAPS is made up of students who serve as resources, referral agents, and role models for other students.

Clinica Sierra Vista-Delano Campus
Mental Health 661/720-2003
Medical 661/725-4780
Students at the Delano Campus receive free medical and mental health services from Clinica Sierra Vista. Delano Campus students can access MAPS services, free over-the-counter medication, and health-related literature in the Delano Science and Technology Building. Student health insurance coverage is available for campus-related injuries.

Job Placement Services 661/395-4550
The Job Placement Center assists students and alumni in finding both part and full-time jobs. The center offers various workshops and assistance with job search strategies, resume writing, interview skills, labor market information, job coaching, and skills identification. The College Central Network website is the central location for both on and off-campus job postings. The website also provides information about Bakersfield College career events, workshops, hot job e-mails, and access to community employers. Visit the Job Placement website at www.collegecentral.com/bakersfieldcollege. Job Placement Center services are free to students and Bakersfield College alumni.

Learning Center 661/395-4433
The Jerry Ludeke Learning Center, on the second and mezzanine floors at the west end of the Student Services Building, is comprised of various learning opportunities and well-trained instructors and tutors. The center offers tutorial services, reading and writing classes, learning and study skills courses, open-entry math courses, a writing center, and a basic skills computer lab. For students who wish to improve their memory, note taking or test taking skills, the Learning Center has short-term courses in these and other study skills subject areas.

Individuals who want to study mathematics may enroll in a hybrid math course in the Learning Center. Courses are taught using a combination of the Internet-based program ALEKS and one-on-one help from instructors in the Math Lab in the Learning Center. Courses are available in Modern College Arithmetic/Prealgebra (MATH B50), Elementary Algebra (MATH B60), and Intermediate Algebra (MATH B70). Students work at their own pace and have the opportunity to complete more than one course in a semester. More information is available on the Learning Center website, www.bakersfieldcollege.edu/acdv/learning-center.

Writing Center 661/395-4735
Students needing help with writing assignments may visit the Writing Center. The Writing Center offers guidance in every stage of the writing process, from generation of essay ideas, through development and organization, to citation of sources. Consultants at the Writing Center can help students take charge of their own writing process and learn new techniques to become more successful writers of college essays. The Writing Center also offers
access to computers so students may work on assignments at their own pace. The center takes appointments, but consultants can also assist walk-in students on a first-come, first-serve basis. For a successful 30 minute consultation, students are encouraged to bring assignment sheets, hard-copy notes and drafts, and any other needed material, and should be prepared to discuss assignments with consultant. ESL consultants are also available. More information is available on the Writing Center website, bakersfieldcollegewritercenter.weebly.com.

**Library 661/395-4461**
The Grace Van Dyke Bird Library provides access to information in a variety of ways and formats. In addition to the over 89,000 books in the collection, the library subscribes to 140 periodicals and six online full-text periodical and newspaper indexes. The library is fully automated, with access to the catalog and periodical indexes on campus and via the Internet. Reference librarians are available during library hours to assist with research needs.

Other services available to all library users include:
- Library Research workshops
- Individual carrels for quiet study
- Study rooms for group work
- Photocopying & computer printing
- Wireless internet and computer access via computers in Computer Commons
- Telephone reference service

Use your current Gades Card for library circulation privileges. Community members may also have circulation privileges with a payment of an annual fee. Inquire at the circulation desk for details.

**Mathematics, Engineering, & Science Achievement (MESA) 661/395-4776**
Bakersfield College’s Mathematics, Engineering & Science Achievement (MESA) program center, located in the Science and Engineering Building, Room 46, is dedicated to serve underrepresented students in the fields of mathematics, engineering, and the sciences and who plan to transfer to a four-year institution to complete a baccalaureate degree. MESA requires participation in at least nine orientation workshops for one semester. In addition, the program requires student involvement in one of the following activities per semester: academic excellence workshop; orientation workshops; professional, career development seminars; or capstone projects. These workshops and activities provide students with critical practice in problem solving techniques as well as exposure to career development in mathematics and science based fields.

MESA offers students book vouchers, scholarships, stipends, free tutoring, field trips to four-year colleges and industries related to students’ fields of study, industry internships, and an environment for studying and networking.

**Office of Outreach and School Relations 661/395-4276**
The Office of Outreach and School Relations’ primary focus is to facilitate the entry and transition of prospective students into the Bakersfield College community by providing services, resources, and support to enhance academic development and success.

Staff is available to provide general information about the campus, answer questions related to the application process, and to inform students about the many opportunities available at the college. Visit our office and take a tour of the campus.

**Office of Equity and Inclusion 661/395-4665**
The Office of Equity and Inclusion supports the mission of Bakersfield College and ensures that our college community supports a culture of excellence and promotes scholarly discussions where a diversity of talents, abilities, cultures, and philosophies are celebrated and acknowledged. We value, honor, respect, and seek to celebrate our campus diversity. We do this by ensuring that all campus programs, organizations, services, and initiatives collaborate and address and support effectively the educational pathway of our students to persist in college toward graduation and/or transfer.

We believe that all who work at Bakersfield College contribute to the learning and study environment of our students and are committed to the shared goal of creating a quality experience for every student. Our office philosophy and staff supports the principles and practices of student equity, academic excellence, diversity, and inclusion. Through a social justice and multicultural approach we promote a standard of excellence for all students. We support maximizing initiatives that promote student access, engagement, follow-up, and achievement. To this end, we are a student-centered office, helping students maneuver educational pathways to complete more classes, persist, graduate, and/or transfer quickly without disruption. We hope to equalize student success across the campus for all students. We are about building strong leaders through integrated campus and community partnerships. We collaborate with campus departments, programs, services, and initiatives to support student success.

**Office of Student Life 661/395-4614**
The Office of Student Life works collaboratively with the Bakersfield College Student Government Association (BCSGA) and the Office of the Vice President for Student Affairs to engage, educate, and empower students to take action in the best interest of the student body and the college community. The Office of Student Life provides learning, leadership, and service opportunities outside the classroom. Research indicates that engagement theory suggests that students involved in any activity on campus or outside of the classroom are more likely to persist and graduate. The Office of Student Life provides participating students the opportunities to develop and hone their leadership skills, ultimately supporting student learning by providing a plethora of programs in which students can be engaged.

We nurture a culture that fosters learning outside of the academic classroom by creating an educational environment that connects the campus community to the importance of processes that lead to student self-governance. The Office of Student Life fosters the development of students’ civic responsibility, community engagement, leadership, and personal growth. The meaningful interactions are the root for our student advocacy that contributes to effective pathways via the leadership and service opportunities provided.

The Office of Student Life provides advising to BCSGA’s appointed and elected officers, all clubs and organizations, and its entities. Additionally, the Office of Student Life provides learning opportunities for students to enhance their overall educational
experience through involvement with the programs and services funded by BCSGA, the college, and the community. The Office of Student Life makes a concerted effort to recruit, educate, inform, and retain students through student organizations, the student government, and the assorted student activities and workshops hosted. To that end, the Office of Student Life supports student organization development whose focus is to build community through groups focused on academics, culture, campus life, specific interests, community service, and social bonding.

The Office of Student Life recognizes that its mission, in cooperation with the learning mission of the College, is accomplished through cultivating a personal standard of ethics and values while providing opportunities that enhance a sense of community between students, the campus, and the local community. Therefore, the Office of Student Life supports Bakersfield College’s mission and core values by contributing to student access, and fostering students’ abilities to think critically, communicate effectively, and demonstrate competencies and skills.

For more information, visit www.bakersfieldcollege.edu/osl.

**Bakersfield College Student Government Association 661/395-4614**

Bakersfield College Student Government Association is the student government at Bakersfield College that voices student concerns. BCSGA presents student opinions, needs, and concerns to such groups as the College Council, the State Student California Community College (SSCCC), and many campus-wide and district-wide committees. BCSGA also allocates Campus Center fees to programs and services that directly benefit students in the Campus Center. Students are urged to become familiar with the Student Government constitution and to become involved with your Student Government. Regular meetings are held on alternating Fridays and are open to the public. Meeting times are posted in the Office of Student Life, Campus Center 4.

The legislative authority of BCSGA is contained within the Executive Board and Student Senate. The Executive Board members and student Senators are elected by the students each spring semester. All official actions undertaken by the BCSGA stem from the decisions of the Executive Board and Student Senate.

For more information, visit www.bakersfieldcollege.edu/campus/sga.

**Student Conduct 661/395-4614**

The Board of Trustees of the Kern Community College District, in support of public education and the exercise of general supervision of the campuses of the district, believes that student conduct must reflect the standards of good behavior expected by society. Since public education is furnished by the people of the district, it becomes a privilege for students to have this opportunity to further their education.

When working with student complaints, sexual harassment complaints, discrimination complaints, students with reported behaviors, academic integrity issues, or reported students of concern, the Office of Student Life at Bakersfield College reviews, investigates, and works with each student case carefully while integrating several student development theories that model after the restorative justice practices. The fundamental premise of restorative justice practices is to engage with the student to lead to a helpful outlook, more cooperative and productive interactions, and more likely to make positive changes when the Office of Student Life and the Bakersfield community interact with them. Restorative justice has a greater impact on student learning and success than the typical punitive models. Taking a restorative justice approach requires a philosophical shift and a personable professional to interact with the students, parents, faculty, and the community to repair the balance back into the students’ life, rather than simply following protocol and penalizing.

Students are expected to observe a proper standard of conduct, showing such respect for order, morality, personal honor, and the rights of others as demanded of good citizens. Failure to do so will be sufficient cause for disciplinary action.

The Student Code of Conduct and the Bakersfield College’s Student Conduct Policy are available in the Office of Student Life, Campus Center 4, or online at www.bakersfieldcollege.edu/campus/student-conduct.

**Transfer Center 661/395-4881**

The Transfer Center offers resources and services to all students. The center facilitates the transition of students from Bakersfield College to a baccalaureate college or university. The center helps reduce the complexity of transferring by helping students through the articulation and transfer agreement process, major planning and preparation, and application/personal statement workshops.

Bakersfield College has guaranteed transfer admission agreements with University of California, Davis; University of California, Irvine; University of California, Merced; University of California, Riverside; University of California, Santa Barbara; and University of California, Santa Cruz. Admission advisors from California State University, Bakersfield are housed in the Bakersfield College Advising and Counseling Center and regularly work with students to ease the transition between Bakersfield College and California State University, Bakersfield. Other college representatives visit campus periodically; a current schedule can be found on the Transfer portal at inside.bakersfieldcollege.edu.

Transfer workshops are offered throughout the year. The Transfer Center maintains current catalog information for California public and private schools. Computers with access to online resources such as www.assist.org to help students with choosing major preparation, and application/personal statement workshops.

**WorkAbility III 661/395-4070**

In cooperation with the State Department of Rehabilitation (DOR), Bakersfield College provides job placement for students with disabilities through the WorkAbility III program. A disability may include physical, communication, learning, or emotional disability. Assistance with part-time jobs, full-time jobs, internships, and work experience placement is provided by WorkAbility III. WorkAbility III also offers job search skills training, including resume writing and interviewing skills. These services are provided to Bakersfield College students who are also clients of DOR. In addition, DOR may
provide financial aid, which may cover the cost of fees, books, and other services.

If a student with a disability believes he/she may qualify for services from DOR, the student can visit the DOR office at 1405 Commercial Way, Suite 120, Bakersfield, or call 661/395-2525. Eligible students are urged to apply for services from Disabled Student Programs and Services at the beginning of the semester.

**Veterans Services 661/395-4414**

**Veteran Certifying Official 661/395-4414**

**Educational Advisor – Veterans 661/395-4312**

Bakersfield College is approved as an institution of higher learning for the training of veterans and veterans’ dependents entitled to educational assistance.

**Educational Benefits for Veterans and Dependents**

To be eligible for veterans benefits the veteran must have as an educational objective an associate or baccalaureate degree or a certificate of achievement. The Veterans Administration will not pay benefits for courses that do not fit in a veteran’s selected program. The following students may be eligible for veteran’s educational benefits:

1. Veterans who were separated from active duty with the armed forces within the past 10 years who participated in the following programs:
   a. Montgomery GI Bill-Active Duty Educational Assistance program (Chapter 30).
   b. The Post-9/11 Veterans Educational Assistance Act of 2008 (Chapter 33).
   c. Montgomery GI Bill - Selected Reserve Educational Assistance Program (Chapter 1606).
   d. Vocational Rehabilitation (Chapter 31) - Veterans who served in the Armed Forces are eligible for vocational rehabilitation if they suffered a service-connected disability while on active service. A veteran who plans to enter Bakersfield College under Chapter 31 is required to have the Veterans Administration approve his/her occupational choice prior to enrollment in college.

2. Spouses and/or children may be eligible for:
   a. The Dependent’s Educational Assistance Program (Chapter 35). A student must be the child or spouse of a veteran who is using Veteran Educational Benefits: Chapter 35 or Post 911 that was allocated from the veteran to his/her dependent.
   b. Chapter 33 benefits if the veteran elects to transfer benefits.

**California Department of Veteran Affairs, College Fee Waiver**

Dependents of veterans with disabilities (spouses and/or children) may be eligible to receive tuition-free assistance at any California post-secondary educational institution. This program is California Department of Veteran Affairs, College Fee Waiver Program for Veterans Dependents. More information can be found at: www.calvet.ca.gov/VetServices/Pages/College-Fee-Waiver.aspx.

**Veteran students using their benefits for the first time**

Students who believe are eligible for veterans or veterans’ dependents educational benefits must apply for benefits with the Veteran Administration (VA). Veterans apply by completing VA Form 22-1990 and veterans’ dependents by completing VA Form 22-5490. An application and further information may be obtained online from the VA website: www.gibill.va.gov via the Veterans Online Application (VONAPP).

**Veteran students who have used their VA Benefits in the past**

The VA will not reimburse students for courses that are not necessary for the completion of the student’s educational objective. Any student who has received veterans’ educational benefits while attending another college should complete VA Form 22-1995 (veterans) or VA Form 22-5495 (veterans’ dependents) to request a change of program or place of training. This form is available online from the VA website: www.gibill.va.gov.

In order to remain eligible, students receiving benefits must comply with the college’s veteran standards of attendance and academic progress policy. A student who fails to maintain the school’s academic standards of progress and is suspended or dismissed from school must be terminated from receiving further VA benefits for unsatisfactory attendance, conduct, or progress.

**All Veteran Students Must Bring In The Following Documents**

- DD-214 – Member, Page 4
- Copy of 22-1990 (Application for Veteran Benefits) or Copy of 22-5495 (Dependent Application for Veteran Benefits)
- Certificate of Eligibility – This is mailed to Veteran students once they complete the 22-1990 or 22-5490 application
- NOBE – 2384 (Notice of Basic Eligibility) **For Reserve Students Only**
- Comprehensive Educational Plan – Make an appointment with Veteran Educational Advisor to complete this form
- Enrollment Card – This card is used to inform the VA how many units the Veteran student is enrolled in and for which semester. The Enrollment Card MUST be completed each semester.

**Priority Registration**

Priority Registration is available for Veteran students. In order to receive priority registration a student must self-identify as a Veteran by:

1. Providing a copy of their DD-214 Member Page 4, to Admissions Window 6 and using their Educational benefits OR
2. Be a dependent of a Veteran who is using Veteran Educational Benefits: Chapter 35 or Post 911 that was allocated from the Veteran to his/her dependent.

Veteran students who do not want to use their Educational benefits at Bakersfield College but still wants to receive Priority Registration must turn in a copy of their DD-214 Member Page 4 to Admissions, Window 6 and indicate that they only want Priority Registration.

**Veteran Status and Priority for the Allied Health and Nursing Program is as follows**

A ‘covered person’ is entitled to priority of service under all WIA Title I funding programs e.g. adult, youth, dislocated workers, 10% funded projects, and National Emergency Grant (NEG). For purposes of this policy, the term ‘veterans priority of service’ means that a covered person shall be given priority over non-veterans for the
receipt of employment, training, and placement services provided under that program, notwithstanding any other provision of law.

A ‘covered person’ is one of the following:

1. A Veteran who is an individual who served in the active military, naval, or air service, and who was discharged or released from such service under conditions other than dishonorable (WIA definition);

2. A recently separated Veteran who applies for participation under this title within 48 months after the discharge or release from active military, naval, or air service (WIA definition; or

The Spouse of:

1. A Veteran who died of a service connected disability;

2. A member on active duty who (at time of spouse’s application) is listed as missing in action, captured in the line of duty, or forcibly detained; or

3. A Veteran with a total disability from a service connected disability or one who died while being evaluated for it.

Additional information may be obtained at Window 6 in the Office of Admissions and Records in the Administration building or at the Veterans Lounge.
Academic Information

Academic Credit
Coursework is measured in terms of semester units. A unit equals 18 hours of lecture or 54 hours of lab work per semester in most courses. Lecture courses require additional outside of class work to equal a minimum of 48 hours of student work.

Academic Freedom
The district, the colleges, and unit members will adhere to the following in regard to academic freedom:

1. Education in a democracy depends upon earnest and unceasing pursuit of truth and upon free and unrestricted communication of truth.
2. Faculty members shall be free to exercise academic freedom, including freedom of investigation, freedom of discussion in the classroom, freedom to select texts and other instructional materials, freedom of assignment of instructional exercises, and freedom of evaluation of student efforts.
3. Faculty members acknowledge that in the exercise of academic freedom they have a responsibility to be accurate and comprehensive in making reports, to be fair-minded in making interpretations and judgements, to respect the freedoms of other persons, to exclude irrelevant matters from classroom discussions and instructional exercises, and to make appropriate distinctions between statements of fact made as faculty subject matter specialists and opinions made as private citizens.
4. The college recognizes the fundamental right of the faculty member to be free from any censorship or restraint which might interfere with the faculty member’s obligation to pursue truth and maintain his/her intellectual integrity in the performance of his/her teaching functions.

Academic Honesty
The administration, faculty, and staff at Bakersfield College believe that students are entitled to the finest education that the college can make available to them. At the same time, however, a student’s achievement and proficiency in subject matter must include the realization that there are standards of academic honesty which should prevail in all endeavors.

Academically, this realization further requires that each student exerts every effort to maintain these standards.

Plagiarism and Cheating
Source: Regulations at California State University, Long Beach, General Catalog, 2011-12.

Definition of Plagiarism
Plagiarism is defined as the act of using the ideas or work of another person or persons as if they were one’s own, without giving credit to the source. Such an act is not plagiarism if it is ascertained that the ideas were arrived at through independent reasoning or logic or where the thought or idea is common knowledge.

Acknowledgment of an original author or source must be made through appropriate references, i.e., quotation marks, footnotes, or commentary. Examples of plagiarism include, but are not limited to, the following: the submission of a work, whether in part or in whole, completed by another, failure to give credit for ideas, statements, facts, or conclusions which rightfully belong to another; in written work, failure to use quotation marks when quoting directly from another, whether it be a paragraph, a sentence, or even part thereof; close and lengthy paraphrasing of another’s writing or programming. A student who is in doubt about the extent of acceptable paraphrasing should consult the instructor.

Students are cautioned that, in conducting their research, they should prepare their notes by (a) either quoting material exactly (using quotation marks) at the time they take notes from a source; or (b) departing completely from the language used in the source, putting the material into their own words. In this way, when the material is used in the paper or project, the student can avoid plagiarism resulting from verbatim use of notes. Both quoted and paraphrased materials must be given proper citations.
Definition of Cheating

Cheating is defined as the act of obtaining or attempting to obtain or aiding another to obtain academic credit for work by the use of any dishonest, deceptive or fraudulent means. Examples of cheating during an examination include, but are not limited to, the following: copying, either in part or in whole, from another’s test or examination; discussion of answers or ideas relating to the answers on an examination or test unless such discussion is specifically authorized by the instructor; giving or receiving copies of an examination without the permission of the instructor; using or displaying notes, cheat sheets, or other information or devices inappropriate to the prescribed test conditions, as when a test of competence includes a test of unassisted recall of information, skill, or procedure; allowing someone other than the officially enrolled student to represent the same. Also included are plagiarism as defined and altering or interfering with the grading procedures.

It is often appropriate for students to study together or to work in teams on projects. However, such students should be careful to avoid the use of unauthorized assistance, and to avoid any implication of cheating, by such means as sitting apart from one another in examinations, presenting the work in a manner which clearly indicates the effort of each individual, or such other method as is appropriate to the particular course.

Every instructor has the responsibility and authority for dealing with such instances of cheating and plagiarism as may occur in class. An instructor who determines that a student has cheated or plagiarized has a range of many available options which may be as severe as giving a student a failing grade for the course, if the assignment or test for which the student cheated or plagiarized is of sufficient weight to merit a failing grade for the course. The student may face a range of sanctions as stated in the college’s Student Conduct Policy. Finally, it must be understood that a student who knowingly aids in another student’s cheating or plagiarism e.g., permitting the other student to copy a paper or examination question, is as guilty as the offender.

A student charged with cheating or plagiarism is entitled to appeal that charge by means of the college’s Student Conduct Policies and Procedures.

Academic Standing

A student whose last completed semester GPA and cumulative GPA are 2.0 or higher and whose accumulated units of ‘W’ (Withdrawal), ‘NP’ (No Pass), and/or I (Incomplete) do not reach or exceed 50 percent shall be in good standing.

Academic Probation

Students who have attempted 12 or more semester units and who then earn a cumulative GPA of less than 2.0 during the Fall, Spring, or Summer semester shall be placed on Academic Probation for the following semester and will not be able to register until an Academic Success Probation Workshop is completed (a hold will be placed on their registration). A student shall be removed from probationary status when the cumulative GPA reaches 2.00 or higher.

In addition, students on academic probation will be limited in the number of units for which they may register. The academic status of each student is available under Academic Standing in the Registration Status section, on the online transcript in BanWeb, or printed on the student transcript updated at the conclusion of each semester.

Progress Probation

Student who have attempted 12 or more units shall be placed on Progress Probation when the percentage of all units attempted for which entries of ‘W’ (Withdrawal), ‘NP’ (No Pass), and/or I (Incomplete) reaches or exceeds 50%. Students will be unable to register for classes for the next semester until an Academic Success Probation Workshop is completed (a hold will be placed on their registration). Students shall be removed from probationary status when the percentage of all the units a student has attempted with entries of ‘W’, ‘NP’, and/or I are recorded is below 50 percent.

In addition, students on progress probation will be limited in the number of units for which they may register. The academic status of each student is available under Academic Standing in the Registration Status section, on the online transcript in BanWeb, or printed on the student transcript updated at the conclusion of each semester.

Subject to Disqualification

Any student who has been placed on Academic and/or Progress Probation for three consecutive semesters of enrollment shall be disqualified for admissions to classes the following semester unless, during the last semester of enrollment, the student earned a GPA of 2.0 or higher or did not receive additional Ws, Is, or NPs, in which case the student shall be placed on Continued Probation.

Counseling for Probationary Students

Each student who is on probation and/or subject to disqualification should attend a face-to-face or online Academic Success Probation Workshop each semester under that status. These workshops are designed to assist students with understanding the reasons for their poor performance and help them to take steps to succeed. Contact the Counseling Department, 661/395-4421, or access the Counseling Department website at www.bakersfieldcollege.edu/counseling for more information.

Reinstatement

A student who is disqualified is ineligible to attend Bakersfield College and may be conditionally readmitted the following semester upon petition to the Counseling Department. A readmitted student will be limited in the number of units in which he/she can register. Students must make a counseling appointment to fill out a Reinstatement Petition and make a plan for future success. Contact the Counseling Department at 661/395-4421.

Academic Renewal

A maximum of 20 units of substandard academic grades, (D, ‘F’, NC, and NP) taken at Bakersfield College which are not reflective of a student’s present demonstrated ability may be disregarded in the computation of the grade point average if all of the following conditions exist:

1. At least five years have elapsed since the coursework to be disregarded was recorded.
2. At least 12 units of satisfactory coursework (2.0 GPA or higher) have been completed at Bakersfield College subsequent to the coursework to be alleviated.
3. The student completes an Academic Renewal request.
4. The student states in the request the specific courses to be considered under the academic renewal policy. If approved, the substandard work will be disregarded in the computation of the grade point average and an annotation made on the permanent record. The permanent academic record will remain a true and complete academic history and the coursework disregarded under this policy will remain on the permanent record.

Academic renewal may not be used to raise the GPA in order to qualify for graduation with honors. Academic renewal may not be applied to courses which have been used to meet graduation, certificate, and certification requirements.

**Associate Degrees for Transfer**

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

To view the most current list of Bakersfield College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to A Degree with a Guarantee’s website at [www.adegreewithaguarantee.com](http://www.adegreewithaguarantee.com). Current and prospective community college students are encouraged to meet with an advisor or counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

**Catalog Rights / Continuous Enrollment**

Bakersfield College students have the right to elect to meet the graduation requirements in effect during the academic year of first enrollment or at the time of graduation. To maintain catalog rights to graduation requirements, a student must remain in continuous enrollment at Bakersfield College. This means the student must earn a grade of ‘A’, ‘B’, ‘C’, ‘D’, ‘F’, ‘NP’, ‘P’, ‘T’, ‘IP’, ‘RD’, or ‘W’ in at least one course each academic year. For the purposes of continuous enrollment, an academic year begins with the summer semester and includes the following fall and spring terms. Petitions for exceptions should be directed to the Executive Vice President, Academic Affairs.

Catalog rights apply only to Bakersfield College graduation and program requirements. If other institutions change their requirements for entrance, graduation, satisfaction of general education patterns, or in other ways, it may be necessary for the student to meet the new requirements upon transfer, even if continuous enrollment has been maintained.

**Credits Allowed from Other Institutions**

Students who wish to receive Bakersfield College credits for work completed at other colleges should have official copies of transcripts from such colleges sent to the Office of Admissions and Records in the Administration building, room 7. Upon student completion of a Request for Evaluation in the Office of Admissions and Records in the Administration building, room 7, those transcripts will be reviewed and credit given where appropriate. Bakersfield College only accepts transfer credits from schools that are accredited by regional accrediting commissions of schools and colleges. Transcripts from foreign institutions must be evaluated by an approved international academic credential evaluation service. Information is available at the Office of Admissions and Records in the Administration building, room 7. Evaluations made and credits allowed by Bakersfield College are subject to review and evaluation by any college or university to which a student may transfer. Qualifying as credit toward a Bakersfield College degree or certificate does not guarantee that pass-through general education will be granted. Evaluations are completed within 5-6 months from submission.

**Advanced Placement Program**

Advanced Placement is a program of college level courses and exams for high school students. Bakersfield College grants college credit for students who score a three or higher on Advanced Placement exams. Additional information may be obtained from the Office of Admissions and Records in the Administration building, room 7.

Students may submit Request for Evaluation forms to the Office of Admissions and Records in the Administration building, room 7 after they have enrolled at Bakersfield College, and they must have appropriate documentation of their successful completions of the Advanced Placement courses. A maximum of 30 units of credit by examination may be applied to the associate degree.

**Credit by Examination**

Credit by exam, sometimes referred to as a “challenge,” is a method for a student to get credit for a specific course, by proving that he/she already has an understanding of the information contained in that course.

In order to qualify for credit by exam, a student must be currently enrolled in courses at Bakersfield College.

For some subjects, credit may be obtained by taking an exam called a CLEP (College Level Examination Program). A list of the courses for which CLEP tests are approved is available in the Office of Admissions and Records in the Administration building, Room 7, and in the Assessment Center. Department administered exams will not be used to award credit in a specific course when a CLEP exam exists. Credit may also be awarded for the Advanced Placement Program.

Students may receive “credit by exam” by producing work that equals the coursework that is normally completed in a specific course. Faculty in the department where the course exists, must assess the student work and assign a letter grade.

It is the responsibility of the student to work with the specific department to receive credit by exam. The student is also responsible for taking the Credit by Exam Form to Admissions and Records, and paying for the course in order for the course to be posted to the permanent record. It is also the student’s responsibility to obtain a Credit by Exam Form from the Office of Admissions and Records.
The college can provide no assurance that credits awarded for credit-by-examination will be treated in a similar manner by other educational institutions.

The student’s permanent record will be annotated to indicate the credit was granted by examination. A maximum of 30 units of credit by examination may be applied to the associate degree.

**College Level Examination Program**

The College Level Examination Program is a means through which academic credit may be given for nontraditional forms of educational experience. Those who may have reached a college level of education through home or correspondence study, on-the-job training, television courses, military service, or other means may take the CLEP examinations which are offered by the College Entrance Examination Board through the Bakersfield College Assessment Center. Credit for the subject area examination will be awarded upon approval of the appropriate faculty chair. Subject examinations are equated with specific courses listed in the current college catalog. Further information may be obtained from the Office of Admissions and Records in the Administration building, room 7.

Students may submit Request for Evaluation forms to Admissions and Records in the Administration building, room 7 after they are enrolled in classes at Bakersfield College, and they must have appropriate documentation of their successful completions of the College Level Examinations courses. A maximum of 30 units of credit by examination may be credited toward the associate degree.

**International Baccalaureate Diploma Program**

The International Baccalaureate Organization’s Diploma Program is a comprehensive and rigorous two-year curriculum for university-bound students between the ages of 16 and 19. After completing the courses at the participating high school, students take the related IB examination, and the information is printed on their high school transcripts. Bakersfield College recognizes the high scholastic quality of the International Baccalaureate Diploma Program and awards credit or placement as approved. Students who plan to enroll at Bakersfield College should submit a copy of their official IB transcript to the Office of Admissions and Records in the Administration building, room 7 for evaluation.

Units for which credit is given pursuant to these examinations will not be counted in determining the 12 semester units in residence required for an associate degree.

**Military Credit**

Bakersfield College will grant veterans from 2 to 12 elective credits for specific service experience and certain educational training while in the service. Evaluation of such experience and training will be made by the Office of Admissions and Records in the Administration building, room 7. Credit evaluations will conform to the regulations set forth by the State Approval Agency of the California State Department of Education and the recommendations of the American Council on Education. A maximum of 12 semester units will be allowed. On average, a Veteran student will receive the following credits: HLED1 (3 Units), Physical Education (2 Units), and General Education (7 Units). Evaluations comply with the regulations and recommendations of the American Council on Education. A copy of the veteran’s DD-214, member page 4 (Report of Separation from the Armed Forces) is required along with military transcripts and prior college transcripts. To request Military Transcripts please visit the following website: https://jst.doded.mil/smart/signIn.do

Students may submit Request for Evaluation forms to the Office of Admissions and Records in the Administration building, room 7 after they are enrolled in classes at Bakersfield College and they must have appropriate documentation of their successful completions of the military courses.

Veterans may use their military basic training to satisfy Area E of the CSU General Education Requirements or the Bakersfield College General Education Requirement by request on transcript order forms.

**Tech Prep Program**

Bakersfield College Tech Prep Program is an integral part of Career and Technical Education, and encourages high school students to continue education training at the college level by offering college credit for high school articulated courses. It provides a smooth transition from high school to a certificate, associate degree, or transfer at the community college without the need to repeat articulated courses. Bakersfield College currently has articulation agreements with high schools, Regional Occupational Centers and Programs, and adult schools.

Bakersfield College will articulate course credit to students who have completed and met the competency requirements of an articulated course, are admitted and in good standing at the college, and only for the course listed in the college catalog. See your high school counselor to obtain a list of courses that are currently articulated at your school or check out our Tech Prep website at: www.bakersfieldcollege.edu/techprep. Additional information can be obtained from the Office of Career and Technical Education, in the Family and Consumer Education building, room 16.

**Repeating a Course**

Certain Bakersfield College courses are identified in the course description sections of the catalog as repeatable, with the number of times they may be repeated indicated.

Other courses may be repeated once for credit if a grade lower than ‘C’ or its equivalent has been earned. Only second attempts will replace the first substandard grade. The original and subsequent grades will remain a part of the student’s permanent record.

If a student earns any combination of ‘D’, ‘F’, or ‘W’ on two attempts in a course taken in the Kern Community College District, that student can only register for a third time with the signature of the faculty chair of the department on a Request to Repeat a Course Beyond the Limit form. The form should be submitted to the Office of Admissions and Records in the Administration building, room 7.

**Final Examinations**

A final examination or evaluation is required in all courses. Instructors will give final examinations or evaluations at the regularly scheduled time.
Grades and Credits
Grading System
Grades are earned and awarded in each course and are recorded on the student's permanent record at the end of each academic term. Evaluation of student achievement will be made in relation to the attainment of the specific objectives of the course. At the beginning of a course the instructor will explain these objectives and the basis upon which grades are determined. A student's work is considered satisfactory when he/she maintains an average of 'C' (grade point average 2.0) or higher.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Excellent</td>
<td>4 per unit</td>
</tr>
<tr>
<td>B-Good</td>
<td>3 per unit</td>
</tr>
<tr>
<td>C-Satisfactory</td>
<td>2 per unit</td>
</tr>
<tr>
<td>D-Less Than Satisfactory</td>
<td>1 per unit</td>
</tr>
<tr>
<td>F-Failing</td>
<td>0 per unit</td>
</tr>
<tr>
<td>AU-Audit</td>
<td>Not computed in GPA</td>
</tr>
<tr>
<td>P-Passing</td>
<td>Not computed in GPA</td>
</tr>
<tr>
<td>NP-No Pass</td>
<td>Not computed in GPA</td>
</tr>
<tr>
<td>I-Incomplete</td>
<td>Not computed in GPA</td>
</tr>
<tr>
<td>W-Withdrawn</td>
<td>Not computed in GPA</td>
</tr>
<tr>
<td>IP-In Progress</td>
<td>Not computed in GPA</td>
</tr>
<tr>
<td>RD-Report Delayed</td>
<td>Not computed in GPA</td>
</tr>
</tbody>
</table>

Grading System
Grades and Credits

**Pass/No Pass**
Some courses are offered on a pass-no pass basis; the credit, no credit option will no longer be available. Upon successful completion of such a course, unit credit will be awarded. However, courses taken on a pass/no pass basis are not used in the computation of a student's grade point average. Regulations for such courses are:

1. A maximum of 12 units may be taken on a pass/no pass basis and applied toward the Associate in Arts or Associate in Science at Bakersfield College.
2. A maximum of three units per semester may be taken on a pass/no pass basis. Exceptions to this rule may be made by the Executive Vice President, Student Services in cases involving Nursing, Radiologic Technology, and special remedial programs.
3. In courses in which pass/no pass is authorized, the pass grade is granted for performance which is equivalent to the letter grade of 'C' or better.
4. Combination classes (pass/no pass or grades) must have an 'A', 'B', 'C', 'D', 'F' and pass/no pass system.
5. Petitions for pass/no pass must be filed with the Office of Admissions and Records in the Administration building, room 7 no later than the first day of the third week of the semester or the last day of the first week of summer session.
6. When a student has established the basis for grading as pass/no pass or a letter grade, he/she may not elect to change after the established deadline.
7. Courses in which pass/no pass grading may be used must be so designated by the department involved. A department may require majors to obtain letter grades in that department’s major subjects. Pass/no pass forms are available in the Office of Admissions and Records in the Administration building.

The following courses are approved for pass/no pass grading:

- ACDV – B5a, B55, B66, B70a, B70b, B70d, B70c, B70f, B190, B195, B201a, B201b, B201c
- ADMJ – B63, B81
- APPR – B60cs, B60ec, B60fa, B60fb, B60pe, B60pt, B65xf
- ART – B1, B2, B4, B17
- BSAD – B9
- CADM – B54, B55, B56, B57, B58, B70a, B70b, B70c, B70d, B70e, B70f, B70g, B70h, B70i, B70j, B70k, B70l, B70m, B70n, B70o, B70p, B70q, B70r, B70s, B70t, B70u, B70v, B70w, B70x, B70z, B71a, B71f, B71g, B71h, B71i, B71k, B71l, B71m, B71n, B71o, B71p, B71q, B71r, B72, B73, B74, B75, B76, B77, B78, B79
- CHDV – B70b
- COMP B2, B3, B5, B10, B31, B32, B43, B72
- CRIM – B1, B2, B3, B4, B5, B8, B9, B10, B55
- ELE – B55a, B63
- EMTC - B11, B14, B16, B17
- ENGL – B60
- FDSV – B71
- FIRE – B2, B25a
- GEOL – B35a, B35b
- INDT – B10, B274
- MEDS – B52, B66, B68
- MUSC – B5ab, B230abc
- NURS (VNRS) – all clinical components of nursing courses; NURS B70, B100, B201abcd
- VNRS – B1LV, B85LV, B86LV, B87LV, B95LV, B96LV, B97LV
- ORNH – B2
- PHED – B3adp, B6fcx, B6t, B6wt
- PHIL – B7 (Philosophy majors may not take Philosophy courses for Pass/No Pass grading)
- RADT – B4a, B4b, B6, B7, B10, B13
- SPST – B48, B201/B201L
- STDV – B1, B2, B3, B6
- VNRS - B69L
- WOOD – B1, B2, B5, B65a, B65b
- WEXP – B250

**I-Incomplete**
Students may request that instructors issue I grades when they have an unforeseeable emergency and justifiable reasons at the end of the term. The instructor must submit a statement of the requirements for clearance of the incomplete and also indicate the grade to be assigned in lieu of the I if the requirements are not completed. An I must be made up no later than one year following the end of the term in which it was assigned. An I may not be assigned as a withdrawal grade. If the work stipulated is not completed within the time limitation, the grade assigned in lieu of the work being completed will be entered on the permanent record.

**W-Withdrawn**
The student has withdrawn from a course or has been dropped from a course by the instructor between the dates indicated in these regulations.

**IP-In Progress**
The IP indicates the course extends beyond the normal end of an academic term and work is in progress, or the course is listed as an open-entry/open-exit course, and has been approved by the
instructor to register and complete course requirements in the succeeding semester in order to receive credit and a course grade. The grade and unit credit will appear on the student’s permanent record for the term in which the course work is completed. The IP cannot be given more than twice for any particular course. If a student enrolled in an open-entry, open-exit course is assigned an IP at the end of an attendance period and does not re-enroll in that course during the subsequent attendance period, the instructor shall assign a grade (‘A’, ‘B’, ‘C’, ‘D’, ‘F’, ‘P’ or ‘NP’) to be recorded on the student’s permanent record for the course.

RD-Report Delayed
The ‘RD’ is a symbol assigned by the Office of Admissions and Records in the Administration building, room 7, when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student.

Grade Reports
Final grades will be made available to students on the Bakersfield College web registration system as soon as possible after the end of each academic term. There will be no additional notification of grades completed or corrected.

Grade Changes
The instructor of each course shall determine the grade to be awarded to each student. The determination of the student’s grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetence. A judgment to change or expunge a grade for reasons of fraud, bad faith, or incompetence shall be made by the college Chief Instructional Officer after consultation with the student, the instructor; and the Division/Department Chair. All parties noted above shall be notified in writing of any changes. Reasons for any grade change shall be documented.

When students request a grade change, provisions shall be made for another faculty member to substitute for the instructor if the instructor is not available or does not respond to communications within a reasonable length of time, the student has filed a discrimination complaint, or the Kern Community College District determines that it is possible there has been gross misconduct by the original instructor.

Honors
Dean’s List
Special recognition is accorded students who maintain a 3.3 grade point average during a semester in which they accumulate at least 42 grade points earned from enrollment in Bakersfield College courses. Students whose academic achievement is at this level are placed on the Dean’s List by the Office of Academic Affairs and are given general recognition on campus and in the community.

Graduation with Honors
Students who have completed at least 60 units in degree applicable letter graded courses, have taken at least 12 of those units at Bakersfield College, and who have earned a cumulative grade point average of 3.50 or higher are eligible for graduation with honors.

The honors designation will appear on the diploma and transcript as follows:

<table>
<thead>
<tr>
<th>Grade Point Average</th>
<th>Honor Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.50 - 3.69</td>
<td>Cum laude</td>
</tr>
<tr>
<td>3.70 - 3.89</td>
<td>Magna cum laude</td>
</tr>
<tr>
<td>3.90 - 4.00</td>
<td>Summa cum laude</td>
</tr>
</tbody>
</table>

Phi Theta Kappa Honor Society
Phi Theta Kappa membership is based on academic achievement. Students must be enrolled in a regionally accredited institution offering an associate degree program. They must complete a minimum of 12 hours of coursework leading to an associate degree, must generally have a 3.25 grade point average, and must enjoy full rights of citizenship. After induction, members must maintain a GPA of 3.25 or higher. There is a fee for membership in this organization.

President’s Scholars
The president of Bakersfield College invites qualified members of each entering freshman class to participate in the President’s Scholars Program using criteria set up by the President’s Scholars/President’s Re-entry Scholars Program. Honorariums of $100 per semester and priority registration are based exclusively on meeting the program’s criteria each semester.

President’s Re-Entry Scholars Program
The President’s Re-Entry Scholars are re-entry students who have demonstrated, by their achievement at Bakersfield College, a commitment to academic excellence. This program is designed for students who are 25 years old or older, or students who have been out of school for five years. Honorariums are $100 per semester and priority registration is based on meeting the program’s criteria each semester. An explanation of eligibility requirements and information about the program is available.
Transfer Guide

What is Transfer?
Transfer is the process of continuing your education at a four-year college or university, usually after completing your first two years at a community college. If planned correctly, the courses that you pass in community college will count towards requirements for your bachelor’s degree just as if they had been taken at the four-year institution.

Bakersfield College students transfer to a wide variety of universities within California and throughout the United States.

Transfer Services
The Bakersfield College Transfer Center is designed to help you during each step of your transfer experience to ensure a smooth and positive transition. A variety of resources are available, including:

- Academic Counseling
- Guidance in researching and selecting a transfer institution
- Individual appointments with representatives from the UC, CSU, and independent colleges and universities
- Transfer workshops including application and Transfer Admission Guarantee (TAG)
- Transfer Admission Agreements with UC’s and some private colleges
- A library of catalogs and college publications
- Information on important dates and deadlines
- Computer software for college research
- Transfer Fairs
- Up-to-Date Transfer website

The Transfer Center is located in the Student Services Building or through InsideBC on the Transfer Portal. To make an appointment, call 661-395-4421.

Educational Options
Transfer is one of several different educational options available at Bakersfield College. The college also offers programs and courses designed to prepare students for a new career field or to upgrade work skills related to a current occupation. The following are the most common degrees and certificates awarded:

Vocational Certificates are awarded after completing specific courses related to a particular occupational area. They are intended for students seeking quick employment or job skills in a specific career field. Vocational Certificates are awarded by community colleges and some private schools.

Associate Degrees are awarded after completing 60 associate degree or transfer semester units of study to include major and general education requirements. An associate degree certifies the achievement of in-depth knowledge about a field of study (your major) as well as the ability to communicate, use mathematics, think critically, and understand various modes of inquiry. This degree is the highest level awarded by community colleges. The degrees can be in arts (Associate of Arts) or sciences (Associate of Science). The associate degree may also be thought of as the “first half” of a bachelor’s degree, although most universities do not require that you earn it prior to transfer. If you complete the requirements for an Associate of Arts for Transfer degree (AA-T) or Associate of Science for Transfer degree (AS-T) at Bakersfield College you will earn an associate degree as well as being transfer ready. The associate degree is a college degree, and as such, has value for employment and on a resume.

Bachelor’s Degrees are awarded after completing at least 120 semester units of study, including major, general education, and graduation requirements. This is the basic degree awarded by “four-year” colleges and universities. Units earned at community colleges count toward the total units needed for a bachelor’s degree if they are transferable. A bachelor’s degree is usually earned in arts (BA) or sciences (BS), although other more specialized options exist, such as the Bachelor of Fine Arts.
Transfer Coursework
Transfer coursework are courses designed to meet lower-division (freshman and sophomore) requirements of a four-year university. These courses can include transfer general education as well as preparation-for-the major courses. Transfer coursework is the first step to completing the bachelor's and higher degrees.

Choosing a College Major
A major is a field of study that students emphasize in their college education. It is what students “specialize” in with their degrees. It's important to remember that a major is what students will study at the university they transfer to. At Bakersfield College, students can prepare to transfer into virtually any major at any university-there are literally thousands to choose from. To narrow down the options, students often begin to select their major by one of the following techniques:

- If students have an idea of a career field they want to enter, you can find majors that are related to, or prepare for, that career field. Majors and career fields are not always “perfectly matched.” However, knowing an intended career field can help narrow options.
- To research possible career pathways, visit the Virtual Bakersfield College Career Center, www.bakersfieldcollege.edu/career-center or www.cacareercafe.com or take Student Development B2, a career decision making course at Bakersfield College.
- If students know what university they want to attend, they can select from the list of majors at that university. Lists of majors at California state universities are available at www.assist.org (click on "Explore Majors").
- If a students thinks they might be interested in a particular major but are not sure, try taking a general education class in the major. Students often select their major based simply on the courses that are the most interesting to them.
- For a description of the most popular majors in California, visit www.petersons.com/college-search/popular-majors-west.aspx

Associate Degrees for Transfer
California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

To view the most current list of Bakersfield College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to the Transfer portal on InsideBC. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Choosing a Transfer University
Each university may have different transfer requirements, so choosing a transfer university (or a first, second, and third choice) is important to ensure you complete the right courses. Universities in the United States are organized into different systems and categories. Choosing a transfer university is important because:

- The majors offered at each university are different.
- Each university has unique features, including factors like the student body, location, and extracurricular activities.
- You are more likely to do well academically in a university environment that you enjoy.

The most common universities that Bakersfield College students transfer to include:

University of California (UC)
The UC combines undergraduate education (leading to a Bachelor's degree) with emphasis on graduate programs (Master and Doctor Degrees) and research. The tuition is relatively inexpensive for California residents. UC Davis, Merced, and Santa Barbara are three universities that Bakersfield College students transfer to.

UC Minimum Requirements
Transfer students will be eligible for admission if they meet the following requirements:

- Complete a minimum of 60 UC-transferable semester units or 90 UC-transferable quarter units.
- Obtain a minimum 2.4 GPA (2.8 for California non-residents). The GPA for admission may be significantly higher due to the department or major applicant pool.
- Complete two transferable college courses in English composition and one transferable college course in mathematical concepts and quantitative reasoning.
- Complete 4 transferable college courses chosen from at least two of the following subject areas: arts and humanities, social and behavioral sciences, physical and biological sciences.

The UC gives high priority to students who complete major coursework early in their academic career.

Students who complete the Intersegmental General Education Transfer Curriculum (IGETC) pattern prior to transferring to the UC system will meet the transfer eligibility coursework requirement listed above (for details on IGETC, see appropriate section of this guide for details). Students are strongly recommended to meet with a counselor to discuss additional requirements for competitive admissions based on major and campus choice.

California State University (CSU)
Emphasizes undergraduate education (leading to a bachelor's degree) but also offers master's degrees. Professors spend more time in the classroom and less time on research than those in the University of California system. CSUs emphasize preparation for specific careers and are relatively inexpensive for California residents. CSU Bakersfield, Fresno State University, and CSU Northridge are three local universities in the 23-campus California State University system that Bakersfield College students transfer to.

CSU Minimum Admission Requirements
Transfer students will be eligible for admission if they meet the following requirements:
• Complete a minimum of 60 CSU-transferable semester units or 90 CSU-transferable quarter units.
• Obtain a minimum 2.0 GPA (2.4 for California non-residents). Impacted majors, programs, and colleges may have higher GPA requirements.
• Complete the “Golden Four” (Oral Communication, Written Communication, Critical Thinking, and Mathematics/Quantitative Reasoning) with a grade of C or better. Pass/No-Pass grades are not recommended in these areas.

Students are urged to complete a General Education Pattern in its entirety as CSU GE or IGETC (see appropriate section of this guide for details).

Students are strongly recommended to meet with a counselor to discuss additional requirements for competitive admissions based on major and campus choice.

**Private Colleges and Universities**

Private colleges and universities are colleges and universities that are not funded by public taxes and sometimes called "independent." Each university is unique with its own programs, majors, and degrees. Some offer academic programs grounded in a specific religion or philosophy. Others offer programs in only one discipline, such as the arts or technical degrees. Others specialize in providing continuing education to working adults. Private colleges and universities are usually smaller and more focused in academic emphasis than public universities.

**Historically Black Colleges and Universities (HBCUs)**

Historically Black colleges and universities usually have a majority African-American student body, though students of all races attend them. They may be private or out-of-state public schools. Most are located in the southern United States.

**Hispanic Serving Institutions**

The Hispanic Association of Colleges and Universities (HACU) is a national educational association that represents colleges and universities committed to Hispanic Higher education success in the United States (including Puerto Rico), Latin America, and Spain. HACU has 193 member Hispanic-Serving Institutions (HSIs) located in 11 U.S. states and Puerto Rico. To be considered a Hispanic-Serving Institution, the Hispanic enrollment at a college or university must be at least 25 per cent of the total student enrollment. California is home to 54 Hispanic Serving Institutions including Bakersfield College.

**Tribal Colleges and Universities**

35 recognized Tribal Colleges and Universities exist in the United States. These are located mainly in the Midwest and Southwest. Tribal Colleges and Universities serve approximately 30,000 full and part-time students. They offer two-year associate degrees in over 200 disciplines, with some providing a bachelor’s and master’s degree. They also offer 200 vocational certificate programs.

**Out-of-State Colleges and Universities**

These institutions include colleges and universities not in California. They may be public or private and are usually more expensive for out-of-state residents than those who live and pay taxes in the state. This group of colleges offers a huge variety of degrees and graduate programs.

**Preparation for Major Courses**

For each major at a four-year institution, there are lower division (freshman and sophomore level) preparatory courses designed to prepare students for upper division study (junior and senior level). Based on the availability of courses, students are strongly encouraged to complete as many major prerequisite courses as possible prior to transfer.

Preparation for Major courses for UC and CSU schools can be found on ASSIST www.assist.org. The ASSIST website is designed to provide students with the most accurate and up-to-date information available. ASSIST lists which community college courses are equivalent to their four-year counterparts and/or will meet specific requirements. Students can find valuable information about additional screening requirements, if the major is impacted, and if there is a required GPA for a specific major on ASSIST.

Students looking to transfer to a private/independent or out-of-state school, should first access the Bakersfield College Transfer Center portal on InsideBC or talk to a Counselor to find out if Bakersfield College has an articulation agreement with the school of interest.

If Bakersfield College has no articulation with the school, you should go to the school’s undergraduate admissions page and search for transfer information or contact the school’s admissions department directly to find out the best way you can take courses towards major preparation.

**General Education Courses**

General Education (GE) is a set of courses from a variety of different subject areas that every student must complete in order to earn a bachelor’s degree, regardless of major. The goal is to provide a well-rounded or “liberal” education and develop the knowledge, skills, and attitudes that together help make up an “educated person”.

The completion of GE prior to transfer is not required for admission to most universities. However, students should complete an appropriate transfer GE pattern at the community college. GE requirements not fulfilled prior to transfer must be completed later at the university, which often extends the time and expense of a university education.

Students usually follow one of three transfer GE options. These are: The IGETC pattern (see page 45) IGETC is accepted by all CSU campuses and most UC campuses and majors. IGETC is also accepted by some private/independent or out-of-state universities.

The CU GE pattern (see page 47) CU GE is accepted by all CSU campuses and some private/independent or out-of-state universities. CSU GE is not accepted by the UC system.

An alternative general education pattern (see page 46) Alternative general education is usually not recommended for students who plan to transfer to the UC or CSU systems to follow this option. However, students entering high-unit majors such as science or engineering, those transferring to a private/independent or out-of-state institution, or those who plan to apply to only one university may be best served by an alternative general education pattern.
Students are strongly recommended to consult with a counselor to determine which general education pattern is most appropriate for their individual educational goals.

Completion of the IGETC or CSU GE pattern also fulfills the requirements for General Education for a Bakersfield College Associate of Arts or Science degree. Students who complete one of these patterns and additional transfer coursework may also qualify for a Bakersfield College Liberal Arts degree.

**General Education Certification (GEC)**

General Education Certification is a legal agreement between the UC or CSU systems and the California Community Colleges that permits a student to transfer from a community college to a UC or CSU campus without the need to complete additional lower division general education courses to satisfy university GE requirements after transfer. Bakersfield College will provide an IGETC or CSU GE certification upon completion of GE coursework when requested by the student on the transcript form. This certification may include selected courses taken from other regionally accredited colleges, or credit earned through other means, such as Advanced Placement (AP) test credit. Students do not have “catalog rights” to a certification pattern. Certification is subject to the following conditions:

- For full certification, no fewer than 39 units will be certified; for partial certification, no fewer than 24 units will be certified;
- Only entire areas will be certified.

**Pass Along Certification**

Students who transfer credits from another California community college often want to “pass along” the general education certifications that they have earned. Any California community college may certify such coursework from another California community college, from a regionally accredited college or university, or from a CSU or UC campus. It is critically important that students transferring coursework from other colleges and universities fill out the Request for Evaluation form available under Admissions and Records, Other Forms on the Bakersfield College website or at window #6 in the Office of Admissions and Records and have official transcripts sent to Bakersfield College Admissions and Records Department to be evaluated.

**Course Identification Numbering System (C-ID)**

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to www.assist.org to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult the ASSIST database at www.assist.org for specific information on C-ID course designations. Counselors can always help students interpret or explain this information.

**Intersegmental General Education Transfer Curriculum (IGETC)**

**About the IGETC Pattern**

The Intersegmental General Education Transfer Curriculum (IGETC) is a general education pattern that will fulfill all lower division general education requirements at all California State University (CSU) campuses and most University of California (UC) campuses/majors. It is also accepted by some private/independent or out-of-state universities. IGETC is usually recommended for students who intend to transfer to a UC campus, or who are not yet sure of their intended transfer university. Completion of the IGETC pattern is not an admission requirement for transfer to most UC or CSU campuses, nor is it the only way to fulfill the lower division GE requirements of a UC or CSU campus prior to transfer.

Students should consult with a counselor to determine which general education pattern is most appropriate for their individual educational goals.

**Rules for using the IGETC pattern**

- Each course must have been IGETC approved at the time it was taken. See www.assist.org for a list of certified courses and approval dates.
- Courses may be approved for more than one IGETC area. However, each course may be used to certify only one of the areas it is approved for.
- Students should apply for IGETC certification at the last community college attended prior to transfer. Forms are available under Admissions and Records, Other Forms or at Window 6 in the Office of Admissions and Records.
- AP credit and coursework completed at accredited U.S. colleges and universities may be used to fulfill some IGETC requirements. All such credit must be evaluated through Admissions and Records. Foreign coursework is not acceptable.
- All courses must be passed with a 'C' or higher. 'C-' is not acceptable.
- Students transferring to UC need not complete the Oral Communication requirement (Area 1C).
- Students transferring to CSU need not complete the Languages Other than English requirement.
- Some UC campuses do not allow use of IGETC for students who were previously enrolled at a UC campus.
- Some community college courses have limitations on the amount of credit awarded by the receiving university. See a counselor, the course description in the college catalog, or www.assist.org for more information.
IGETC is NOT recommended for the following transfer destinations
- UC San Diego Revelle and Eleanor Roosevelt Colleges
- UC Berkeley Colleges of Business, Chemistry, Environmental Design (Architecture), Engineering, Natural Resources, Optometry.
- UC Davis College of Engineering
- UC Irvine Schools of Engineering, Biological Sciences, Physical Sciences
- UC Riverside Colleges of Engineering, Natural and Agricultural Sciences
- UC Santa Barbara Colleges of Engineering, Creative Studies
- UC Los Angeles Schools of Engineering and Applied Science

The IGETC Pattern

Area 1
English Communication: A minimum of nine units required; choose one from each group. Note: Students transferring to the University of California do not have to meet the oral communication requirement or the unit requirement of Area 1.

  Group A
  English Composition: one course, three semester/four to five quarter units.
  ENGL B1a

  Group B
  Critical Thinking: English Composition: one course, three semester/four to five quarter units. Courses must have English Composition as a prerequisite. AP credit may not be used.
  ENGL B2, B3; PHIL B9

  Group C
  Oral Communication: one course, three semester/four to five quarter units.
  COMM B1, B4, B8

Area 2
Mathematical Concepts and Quantitative Reasoning: one course, three semester/4-5 quarter units.
MATH B1a, B1b, B2, B6a, B6b, B6c, B6d, B6e, B22, B23, PSYC B5

Area 3
Arts and Humanities: At least three courses, nine semester/12-15 quarter units. At least one course from the arts and one from the humanities.

  A. Arts:
  ART B1, B2, B4, B35, B36, B37
  MUSC B2, B4a, B4b, B21a, B21b, B22, B23, B27
  THEA B12a, B20, B31, B32

  B. Humanities:
  ASL B2, B3
  ENGL B1b, B5a, B5b, B10, B20a, B21, B24, B27, B28, B30a, B30b
  HIST B1, B2, B4a, B4b, B15, B17a, B17b, B18, B20a, B20b, B25, B30a, B30b, B36
  JAPN B2
  MUSC B24
  PHIL B6a, B10, B18, B37
  SPAN B3, B4

Area 4
Social and Behavioral Sciences: At least three courses, nine semester/12-15 quarter units. Courses from at least two disciplines or an interdisciplinary sequence.

  ADMJ B40
  ANTH B2, B3, B5
  CHDV B21
  COMM B6
  ECON B1, B2
  GEOG B2, B5
  HIST B1, B2, B4a, B4b, B15, B17a, B17b, B18, B20a, B20b, B25, B30a, B30b, B33, B36
  JRNL B1
  POLS B1, B2, B3, B16
  PSYC B1a, B6, B20, B33, B40
  SOCI B1, B2, B20, B28, B36, B45

Area 5
Physical and Biological Sciences: The IGETC physical and biological science area requires a minimum of two courses, one physical science and one biological science course and at least one of the two must include a laboratory, seven to nine semester/nine to twelve quarter units. Physical and biological science courses that include a laboratory component are listed below in C.

  A. Physical Sciences:
  ASTR B1, B2, B3
  CHEM B1a, B2a, B11, B18
  ERSC B10
  GEOG B1, B3
  GEOL B10, B11
  PHYS B2a, B4a

  B. Biological Sciences:
  ANTH B1
  BIOL B3a, B3b, B11, B16
  B32, B33
  CRPS B10
  PSYC B1b

  C. Laboratory Science:
  BIOL B3a, B3b, B7, B11, B16, B20, B32, B33
  CHEM B1a, B2a, B11, B18
  CRPS B10
  ERSC B10L
  GEOG B1L
  GEOL B10L, B11L
  PHYS B2a, B4a

Area 6-Language Other than English
UC Requirement Only. In order to complete IGETC for the University of California system, students are required to demonstrate competence/proficiency in a language other than English equal to two years of high school study. Competence may be demonstrated through the following mechanisms:

1. Completion of two years of the same foreign language of high school level work with grades of 'C' or better;
2. Completion of a course or courses at a college or university, with a grade of 'C' or better in each course. Usually, one
Any one of the following course or courses completed with a grade of ‘C’ or better will fulfill the requirement.

6A: Languages Other Than English

- ASL B1: American Sign Language 1
- ASL B2: American Sign Language 2
- ASL B3: American Sign Language 3
- ASL B4: American Sign Language 4
- JAPN B1: Elementary Japanese I
- JAPN B2: Elementary Japanese II
- SPAN B2: Elementary Spanish II
- SPAN B3: Intermediate Spanish I
- SPAN B4: Intermediate Spanish II
- SPAN B35: Spanish for Heritage Speakers I
- SPAN B36: Spanish for Heritage Speakers II

9. A Defense language Institute language other than English course which is indicated as passed with a ‘C’ or higher on the official transcript.

10. Completion of courses above proficiency level, with grades of ‘C’ or better, may also be used to meet the requirement.

California State University General Education Breadth (CSU GE)

About the CSU GE Pattern

The California State University General Education-Breadth (CSU GE) pattern is one option that allows California community college transfer students to fulfill the lower-division general education requirements of any California State University (CSU) campus. The curriculum consists of a 39-unit pattern with five areas of concentration described in the CSU GE pattern.

For assistance in determining the most appropriate general education program, consult a counselor.

Certification of CSU GE Requirements

Official notification from a California community college that a transfer student has completed courses fulfilling lower-division general education requirements occurs through a process of "certification." Certification is a legal agreement between the CSU and California Community Colleges.

It is the policy of Bakersfield College to provide certification of general education breadth requirements when such service is requested by the student or whenever a student requests that a transcript be sent to a CSU or UC if the student has completed all of 39 units for certification. Certification of general education courses is generally requested when the CSU GE pattern has been completed.

Additional CSU GE Information and Restrictions

- Completion of the CSU GE pattern is not an admission requirement nor does completion guarantee admission to any CSU campus or program.
- Certification is based on approved courses listed in the Bakersfield College CSU GE pattern or from other regionally accredited institutions. Courses taken at other community colleges must fulfill the appropriate GE breadth area as defined by that college.
- Courses completed at a foreign college or university cannot be used to satisfy requirements for certification.
- Catalog rights do not apply to the CSU GE pattern
- Prior to certification, students must complete a minimum of 24 units in residence at Bakersfield College.
- Official transcripts from all colleges and universities attended must be on file before submitting an application for certification. The application is available in the Admission and Records office.
- The CSU GE pattern is accepted by some California private and independent colleges and universities in satisfying lower division general education requirements.
- For additional information, consult a counselor.

The CSU GE Pattern

California State University General Education Breadth Course List

A. English Language Communication and Critical Thinking: A minimum of nine semester units in both oral and written
communication in the English language, and in critical thinking and reasoning. AP credit may not be used for A.3.

A.1. Oral Communication: COMM B1, B4, B8
A.2. Written Communication: ENGL B1a
A.3. Critical Thinking: PHIL B7, B9; ENGL B1b, B2, B3; COMM B5

B. Scientific Inquiry and Quantitative Reasoning: A minimum of nine semester units including instruction in physical (B.1) and life science (B.2) and instruction in math/quantitative reasoning (B.4). One of the two science courses from B.1 or B.2 must include a lab. Courses with a lab are shown with an asterisk (*) and separate lab courses are listed in B.3.

B.1. Physical Universe:
ASTR B1, B2, B3
CHEM B1a*, B2a*, B11*, B18*, B30a, B30b
ERSC B10
GEOG B1, B3
GEOL B10, B11
PHYS B2a*, B4a*
PHSC B12*

B.2. Life Science:
ANTH B1
BIOL B3a*, B3b*, B11*, B16*, B18*, B32*, B33*
CRPS B10*
PSYC B1b

B.3. Laboratory activity. At least one course shown with an asterisk (*) in Areas B.1 or B.2 or one of the following:
ERSC B10L
GEOG B1L
GEOL B10L, B11L
Courses from B.1 and B.2 with an * also satisfy the B.3 lab requirement.

B.4. Mathematics/Quantitative Reasoning:
MATH B1a, B1b, B2, B6a, B6b, B6c, B6d, B6e, B22, B23
PSYC B5

C. Arts and Humanities: A minimum of nine semester units among the arts, literature, philosophy and foreign languages. Every attempt should be made to include western and non-western cultures. At least one course must be taken from arts and one from humanities.

C.1. Arts (Art, Dance, Music, Theatre):
ART B1, B2, B4, B13, B35, B36, B37
MUSC B2, B4a, B4b, B21a, B21b, B22, B23, B24, B27
THEA B1, B2a, B2b, B12a, B20, B31, B32

C.2. Humanities (Literature, Philosophy, Foreign Languages):
ASL B1, B2, B3
ENGL B1b, B5a, B5b, B10, B20a, B21, B24, B27, B28, B30a, B30b
HIST B1, B15, B18
JAPN B1, B2
PHIL B6a, B9, B10, B12, B18, B37
SPAN B2, B3, B4, B35, B36

D. Social Sciences: A minimum of nine semester units dealing with human social, political, and economic institutions and behavior and their historical background. Fulfillment of this requirement must include courses taken in at least two disciplines. Every effort should be made to include western or non-western cultures. See notes below for information concerning additional requirements.

D.1. Anthropology and Archaelogy:
ANTH B2, B3, B5
D.2. Economics:
AGBS B2
ECON B1, B2
D.3. Ethnic Studies:
ANTH B5
COMM B6
HIST B20a, B20b, B30a, B30b, B36
SOCI B28, B36, B45

D.4. Gender Studies:
HIST B25
SOCI B28

D.5. Geography:
GEOG B2, B5

D.6. History:
HIST B1, B2, B4a, B4b, B15, B17a, B17b, B18, B20a, B20b, B25, B30a, B30b, B33, B36

D.7. Interdisciplinary Social or Behavioral Science:
AGRI B1
CHDV B21, B42
COMM B6, B7
PSYC B40

D.8. Political Science, Government, and Legal Institutions:
ADMJ B40
JRNL B1
POLS B1, B2, B3, B12, B16

D.9. Psychology:
PSYC B1a, B6, B20 (SOCI B20), B33, B40

D.10. Sociology and Criminology:
ADMJ B40
CRIM B1, B5
SOCI B1, B2, B20 (PSYC B20), B28, B36, B45

E. Lifelong Learning and Self-Development: A minimum of three semester units in study designed to equip human beings for lifelong understanding and development of themselves as integrated physiological and psychological entities. A maximum of one unit of credit is allowed for physical education activity courses in this area.

CHDV B21, B42
FORE B2
HLED B1
MEDS B35
NUTR B10
PHIL B12
PSYC B1a, B30, B33, B40
SOCI B28
STDV B3, B6
PHED B3adp, B10, B11, B12, B13, B14, B16, B17, B20, B22, B23, B25, B26, B27, B28, B29, B32, B33.

CSU U.S. History, Constitution, and American Ideals Certification Courses
The California State University, before awarding a degree, requires students to complete courses or examinations that address:

1. The historical development of American institutions and ideals (Area US-1), and
2. The Constitution of the United States and the operation of representative democratic government under that Constitution (Area US-2), and
3. The process of California state and local government (Area US-3).

This requirement may be fulfilled at a California Community College prior to transfer by completing a combination of courses that satisfies all three areas of the requirement. The requirement may also be completed at a CSU campus after transfer. Courses approved in two US areas may be used to satisfy both areas.

Although this requirement is not part of the General Education requirements for CSU, all students must complete course work in U.S. History, Constitution and Government before graduation from a CSU campus. The courses may also be used to partially fulfill Area D of the CSU General Education Breadth requirements.

Completion of these courses at Bakersfield College is recommended and is not required for Certification.

Students who wish to meet these requirements at Bakersfield College prior to transferring to a CSU campus may take up to six semester units from the combinations below.

POLS B1 and one of the following: HIST B17a, B17b, B20a, B20b, B30a B30b, B36, or HIST B17a and POLS B1 or POLS B12 or HIST B18.

Other Transfer General Education Options
Some transfer students are best served by following a general education pattern other than the IGETC or CSU GE patterns. These typically include students who fall into one of the following three categories:

1. Students entering high unit majors such as an engineering or science discipline. Major preparation for the engineering and science fields typically consists of a high number of units. Most universities prefer (and some require) that these preparation for major courses be completed prior to transfer. Therefore, it may be more beneficial for students entering these majors to complete relatively fewer GE courses and major preparation courses at the community college, while still meeting the minimum admission requirements of the university. Students should review the catalog, other published advising materials of the university and major to which they intend to transfer and www.assist.org for students transferring to the UC or CSU system and a Bakersfield College counselor for assistance in selecting appropriate courses.

2. Students transferring to a private/independent or out-of-state university. Some private/independent and out-of-state universities accept IGETC or CSU GE, but most do not. Instead, each university has its own unique GE pattern.

3. Bakersfield College has established articulation agreements with some of these institutions. These agreements specify the courses students can complete at Bakersfield College to fulfill the university’s GE requirements. They are available at InsideBC on the Transfer Portal. For information on transferring to a private/independent or out-of-state university, visit the Transfer Center.

4. Students who wish to complete the general education requirements of one specific university. Some students decide to complete the GE requirements for one specific university, rather than the more universally applicable IGETC or CSU GE patterns, for several reasons:
   - Some universities and/or majors do not accept IGETC and instead suggest following the university’s own GE pattern.
   - Some students know that they will attend only one university (such as those with a guarantee of transfer admission) and so plan to complete the specific GE pattern for that institution only.
   - Some university-specific GE patterns require fewer total units that IGETC or CSU GE.

Each university's unique GE pattern can be found in their university catalog. In addition, some UC and CSU campuses have posted general education patterns on the ASSIST website at www.assist.org.

Guaranteed Admission Programs
Bakersfield College offers a number of Guaranteed Admission Programs with several schools including: UC Davis, UC Irvine, UC Merced, UC Riverside, UC Santa Barbara, UC Santa Cruz, as well as CSUB Stem majors. Come to the Transfer Center for program requirements or go to the Transfer Portal on InsideBC.

Plan early as some agreements must be signed at least a year in advance of the transfer semester/quarter. Interested students are strongly urged to meet with the Transfer counselor or attend a Transfer Admission Guarantee (TAG) workshop for details on eligibility requirements as they change every year.

Applying to a University
About applying for admission
Universities require you to apply and be admitted before you start attending school there. All students who apply must meet the minimum requirements (usually certain coursework requirements and a minimum transferable GPA). Some schools accept all transfer students who meet the minimum requirements, while others go through a selection process to determine which students will be offered admission.

Application dates and deadlines
Different systems have different dates and deadlines to apply. If you plan to attend a private/independent or out-of-state university, you should check with that school to find their application deadline and procedures. The following dates and deadlines apply to California public universities only:

California State University
Term of Transfer Initial Filing Period
Summer Feb. 1-28/29 of current year
Fall Oct 1-Nov 30 of preceding year
Winter June 1-30 of preceding year
Spring August 1-31 of preceding year

University of California
Term of Transfer Initial Filing Period
Fall semester or quarter November 1-30 of preceding year
Winter Quarter July 1-31 of preceding year
Spring Quarter October 1-31 of preceding year

All campuses are open for any given Fall term. For Winter/Spring terms, students should verify that the specific campus accepts
transfers for that specific term. Check www.csumentor.edu for CSU campuses and www.universityofcalifornia.edu for UC campuses.

Each campus accepts applications until the end of the filing period or until capacities are reached. If applying after the initial filing period check the campus websites to verify if the campus is still open.

**How to apply**
The UC and CSU systems strongly encourage all students to apply using the online application process. Not only does it make it easier to read and evaluate the application, but the websites also “check your work” to make sure students are not missing any required information before submitting the final application.

The UC application is available at: www.universityofcalifornia.edu/apply.

The CSU application is available at: www.csumentor.edu/admissionapp/undergrad_apply.asp.

**Final Steps to Transfer**
Many universities require you to submit documents, take assessment exams, attend mandatory orientations, or meet other requirements before you enroll. It is very important that you check your email regularly so that you do not miss deadlines. It's also a good idea to apply for your local Bakersfield College degree and General Education certification from Bakersfield College prior to transfer. You should do as much as you can now to make the transition to your university as smooth as possible.

**Petition to Graduate from Bakersfield College**
Graduation from Bakersfield College is not automatic. You must fill out a Candidacy for Graduation form and a degree analysis with a counselor or advisor. Petition to graduate even if you are only completing transfer coursework. Some transfer students may be eligible to receive a Liberal Arts Associate degree. You should petition to graduate during your last semester at Bakersfield College by these dates:

- August 1-November 1 for Fall semester graduation.
- January 1-April 1 for Spring semester graduation.
- June 1-July 1 for Summer semester graduation.

The Office of Admissions and Records notifies students who do not qualify. Students who do not receive such notification should assume that they will graduate if they satisfactorily complete their current term coursework.

Students who qualify will receive their diploma in the mail approximately eight weeks after the end of the semester.

**File for General Education (GE) Certification**
GE Certification is a legal agreement between Bakersfield College and a California public university (UC or CSU campus) that all of your lower division GE requirements have been completed. Certification can be awarded for either the entire IGETC or CSU GE patterns, or for part of the CSU pattern. Some California private/independent institutions also accept IGETC or CSU GE certification. You should file for GE certification when you are enrolled in your final GE courses and know which university you will be attending. Apply at the Office of Admissions and Records, Transcript window.

**Attend Commencement**
You don't have to attend Bakersfield College graduation to transfer or to receive your degree, but it's a great way to celebrate and be publicly recognized for your achievement. You earned it! Commencement ceremonies are held once a year in May. Students who complete their degree requirements during the fall, spring, or summer prior to the ceremony will complete them during the following summer and are eligible to participate.

**Submit Intent to Register and Transcripts**
After offering you admission, most universities require you to send a statement of intent to register (SIR), official transcripts, a deposit, and sometimes additional materials. Review your university admission paperwork for details. Information on ordering transcripts from Bakersfield College is available online at www.bakersfieldcollege.edu/records/transcripts.

**Attend New Student Orientation**
Most universities offer a new student orientation day (some require that you attend), where you learn about university services and requirements, get academic advising, tour the campus, etc. Review your university admission paperwork for details.

**Complete Assessment Tests**
Some universities require transfer students to complete assessment tests either prior to enrollment or during their first year of attendance. Review your university admission paperwork for details.

**Find Housing**
Are you going to live on campus? If so, you will need to apply for campus housing. Check your university online portal account for housing submission dates. If you are going to live off campus, visit your university housing office for listings.

**Send Your Final Transcripts**
You are usually required to send your university a final official transcript after the end of your last regular semester prior to transfer. Information on ordering transcripts from Bakersfield College is online at www.bakersfieldcollege.edu/records/transcripts.

**Meet Immunization Requirements**
Most universities require documentation of immunization against certain communicable diseases like measles or rubella. Review your university admission paperwork for more information.

**Other Transfer Information**

**UC Transfer and Physical Education Courses**
The University of California grants a maximum of four semester units of credit for appropriate Physical Education activity courses. Courses that are subject to this limit are listed as such on the college’s UC Transfer Course Agreement, available on web ASSIST at www.assist.org under the UC Transferable Courses link.

**UC Transfer and Variable Topics Courses**
These courses are also called “Independent Studies”, “Special Studies”, “Special Topics”, “Internships”, “Field Work”, etc. Credit for variable topics courses is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after transfer and may require recommendations from faculty.
UC does not grant credit for variable topics courses in Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology), or Library Departments because of credit restrictions in these areas.
Certificates and Degrees
Students have many different goals in mind when they enroll at Bakersfield College. Some plan to earn a certificate to enhance their job skills while others want to earn an associate degree and/or transfer to a four-year university. Bakersfield College offers the following certificate and degree programs:

• Associate in Arts and Associate in Science degrees can be used to obtain necessary skills for a range of possible careers, or they may be used to transfer to a four-year institution.
• Associate in Arts/Associate in Science for Transfer degrees (AA-T, AS-T). Students will earn an associate degree as well as being transfer-ready.
• Certificates of Achievement are awarded to students who complete formal instructional programs of at least 18 units designed to prepare them for a specific field or endeavor.
• Job Skills Certificates are awarded upon the satisfactory completion of coursework (less than 18 units) in a specific area of study.

Students who plan to seek immediate employment rather than to transfer usually choose to meet the Bakersfield College General Education Requirements.

Graduation with an Associate Degree
The awarding of an associate degree is intended to represent more than an accumulation of units. It symbolizes a successful attempt on the part of the college to lead students through patterns of learning experiences designed to develop certain capabilities and insights: the ability to think and to communicate clearly and effectively both orally and in writing; to solve problems and to use mathematics; to understand the modes of inquiry of the major disciplines; to be aware of other cultures and times; to achieve insights gained through experience in thinking about ethical problems; and to develop the capability for self-understanding. In addition to these accomplishments, the student shall possess sufficient depth in some field of knowledge to contribute to lifetime interest. (Title 5)

The associate degree shall be conferred by the Board of Trustees of the Kern Community College District upon a Bakersfield College student who has satisfactorily completed the requirements. These requirements are consistent with those prescribed by the Board of Governors of the California Community Colleges and the Board of Trustees of the Kern Community College District.

Associate in Arts/Sciences Degrees for Transfer (AA-T/AS-T)
California Community Colleges are now offering associate degrees for transfer to the California State University. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a California State University major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the California State University system and given priority admission consideration to their local California State University campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

To view the most current list of Bakersfield College Associate Degrees for Transfer and to find out which California State University campuses accept each degree, please visit the A Degree with a Guarantee website at www.adegreewithaguarantee.com. Current and prospective community college students should meet with an advisor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Applying for Graduation
Students must complete candidacy for graduation requests early in the semester in which they plan to graduate. Applications are available under Other Forms on the Admissions and Records tab in the student portal at inside.bakersfieldcollege.edu. Students should
bring the completed application form and a DegreeWorks Student View Worksheet to Window 7 of the Office of Admissions and Records. The worksheet and completed graduation request are due as follows:

- To graduate in December, forms are due by November 1
- To graduate in May, forms are due by April 1
- To graduate in August, forms are due by July 1.

The Office of Admissions and Records notifies students who do not qualify as soon as possible after the application is received but no later than the end of the graduation semester. Students who do not receive such notification should assume that they will graduate if they satisfactorily complete the courses they are registered for in their final semester. Students who qualify will receive their diplomas in the mail approximately eight weeks after the end of the semester. Duplicate diplomas can only be issued upon written request and upon payment of a replacement fee.

Commencement Ceremonies
Commencement ceremonies are held once each year in May. Students who complete their degree requirements during the fall, summer, or spring prior to the ceremony or who will complete them in the following summer are eligible to participate. Students planning to complete during the following summer must:

- file a candidacy request between April 1 and May 1
- need only one course or less than five units for completion
- submit documentation of registration for the required course(s)

General Requirements
1. Educational Planning
   Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:
   - Agriculture: AGRI B1
   - Allied Health: NURS B100
   - Applied Science and Technology: INDT B10
   - FACE: FDSV B50
   - Physical Science: ARCH B1; ENGR B47
   - Student Development: STDV B1, B2, B3, B4, B6
2. Minimum of 60 degree applicable units, with at least a 2.0 grade point average.
3. At least 12 of the 60 units must be completed with Bakersfield College.
4. Completion of the required courses with a minimum grade of 'C' of a designated major.
5. Competency Requirements:
   - Composition: completion of English B1a with a minimum grade of 'C'.
   - Mathematics: Two years of high school algebra or MATH B70 with a minimum grade of 'C'; or an equivalent score on the Placement/Assessment.
   - Reading: a satisfactory score on the Bakersfield College Placement/Assessment or a satisfactory grade in ACDV B50.
6. Completion of a General Education Pattern: Choose 1: Bakersfield College General Education Specific Requirements, or California State University General Education Breadth, or Intersegmental General Education Transfer Curriculum (IGETC). (See General Education Requirements)
7. Completion of one course with a minimum grade of 'C' meeting the Multicultural Requirement

Multicultural Requirement
Multicultural study promotes awareness of and sensitivity to diverse beliefs and practices in contemporary society. Bakersfield College requires students to take courses that are inclusive of multicultural perspectives found in American and global society. This requirement may be satisfied through studying the distinctive cultures of the United States or the world, including but not limited to ethnicity, gender, class, political systems, religions, or human geography.

American Cultural and Ethnic Groups
This requirement includes courses that lead to an understanding of ethnic groups and cultures in American society. Courses will focus on themes that address the theoretical or analytical issues relevant to understanding race, culture, and ethnicity. This exploration can be accomplished through the study of, but not limited to: African Americans, Native Americans, Asian Americans, Chicano/Latino Americans, and European Americans from integrative and comparative viewpoints as they relate to the larger context of American history, society, and culture.

World Cultures
Students may develop a multicultural perspective through a study of world cultures and their relationship to America in a global society. The study of the history, society, or culture of a foreign country and its relationship to America can demonstrate the interdependence of all nations in a global political, economic and social infrastructure.

Courses meeting this requirement should not be based solely on Western Civilization.

Multiple Degrees
An associate in arts or associate in science degree will be awarded to those already possessing an associate or higher degree if:
1. All requirements in a different major from that of previous associate or higher degree are satisfied; and
2. All general education requirements in effect when beginning the new degree program are satisfied; and
3. The student is enrolled at Bakersfield College during the semester in which the degree requirements are completed.

General Education
The General Education Program at Bakersfield College includes those courses required of all students, regardless of major or career goals, for the associate degree or for transfer to some four-year institutions. The program is intended to be more than a requirement; it can be an exciting, dynamic, and essential part of a student’s education.

The General Education Program has been designed to address the needs of men and women of all ages, abilities, ethnic identities, life styles, and goals. Through general education, the college seeks to foster knowledge, skills, and attitudes that will empower students to shape the direction of their lives and their environment. Its goal is to encourage students to strive for the highest quality of life, both at leisure and at work, for themselves, their families, and the larger community.
Recognizing the certainty of change, the college, through the General Education Program, hopes to prepare students to meet the challenges of the twenty-first century. Specifically, the program will assist them to develop and acquire the following:

- **Global Consciousness:** an awareness of the complexity and diversity of the world, with its interplay of environmental, social, cultural, political, and economic forces, and an understanding of the unique role that each person plays in the system of relationships which extends from family to the international community.
- **Communication Skills:** the ability to convey ideas, values, feelings, and knowledge accurately and effectively through written, oral, aesthetic, and technological media across personal, cultural, and national boundaries.
- **Adaptability:** the willingness and confidence to accept and respond creatively to change, and the ability to analyze, think critically, solve problems, and resolve personal and interpersonal conflicts.
- **Responsibility:** A respect for ethics, citizenship, and leadership, and a commitment to personal health and emotional growth which enable one to participate in life rather than react to it.
- **Knowledge:** the body of information, reflecting both quantitative and qualitative reasoning, in the arts, sciences, and technology, their modes of inquiry and expression, their interrelationships, and the methods of accessing information in all areas of study.

The general education program thus seeks to assist students to succeed in the present and to inspire them to approach the future with a commitment to lifelong learning.

Because certain basic competencies are necessary for an educated person, the General Education Program specifically requires competency testing (or course alternatives) in reading, written expression, and mathematics.

**Institutional Level Learning Outcomes**

Upon completion of an associate degree, a student will:

I. Pursue knowledge and evaluate its consequences
   A. Think critically, abstractly, logically, and algorithmically to evaluate and solve problems.
   B. Integrate new information to formulate principles and theories and display openness to different opinions.
   C. Share the desire for intellectual creativity and acquisition of knowledge.

II. Communicate clearly and effectively in both written and oral forms.

III. Demonstrate knowledge and abilities in a chosen area of study.
   A. Demonstrate an understanding of resources and procedures of a field and the ability to use them.
   B. Demonstrate the ability to use current technology to acquire, organize, and analyze information appropriately.
   C. Possess a core of knowledge and skills in a chosen field.

IV. Appreciate civic responsibilities.
   A. Reflect upon the cultural and ethical dimensions of life.
   B. Contribute to society as an actively engaged citizen.

**General Education Student Learning Outcomes**

A.1. **Oral Communication**

1. Form and present informative persuasive messages.
2. Demonstrate competence in both active and emphatic listening.
3. Present oral messages to appropriate audiences and adhere to conventions of message delivery.
4. Manage personal communication apprehension and anxiety.

A.2. **Written Communication**

1. Identify the controlling idea and the main points of college-level expository and argumentative essays.
2. Evaluate expository and argumentative essays through the application of critical thinking techniques.
3. Write logical and coherent expository and argumentative essays, summaries, and paraphrases using correctly the standard conventions of written English.

B.1. **Natural Sciences**

1. Demonstrate a knowledge of natural phenomena and recognize the processes that explain them.
2. Demonstrate a knowledge of scientific methodologies when solving a problem.

B.2. **Mathematics and Logic (Analytic Thinking)**

1. Apply formal systems of reasoning in solving problems or analyzing arguments.

C.1. **Introduction to the Arts**

1. Demonstrate an understanding of and an ability to describe the ways in which arts, literature, philosophy or foreign languages reflect historical, intellectual, and cultural contexts, as well as aesthetic tastes.
2. Demonstrate the ability to recognize, describe and/or produce various components of an art form or language either visually and/or auditorily.

C.2. **Introduction to the Humanities**

1. Demonstrate an understanding of and an ability to describe the ways in which arts, literature, philosophy or foreign languages reflect historical, intellectual, and cultural contexts, as well as aesthetic tastes.

D.1. **Foundations in the Behavioral Sciences**

1. Demonstrate an understanding of the perspectives, theories, methods, and core concepts of the behavioral sciences.
2. Explain the major problems and issues in the disciplines in their contemporary, historical, and geographical contexts.
3. Demonstrate an understanding of and an ability to describe the contributions and perspectives of women, ethnic and other minorities, and Western and non-Western peoples.

D.2. **Foundations in the Social Sciences**

1. Demonstrate an understanding of the perspectives, theories, methods, and core concepts of the social sciences.
2. Explain the major problems and issues in the disciplines in their contemporary, historical, and geographical contexts.
3. Demonstrate an understanding of and an ability to describe the contributions and perspectives of women, ethnic and other minorities, and Western and non-Western peoples.

D.3. American (U.S.) Institutions
1. Demonstrate an understanding of the perspectives, theories, methods, and core concepts of the social sciences.
2. Explain the major problems and issues in the disciplines in their contemporary, historical, and geographical contexts.
3. Demonstrate an understanding of and an ability to describe the contributions and perspectives of women, ethnic and other minorities, and Western and non-Western peoples.

E. Lifelong Understanding and Self-Development
1. Critically examine the development of the individual as an integrated physiological, psychological, spiritual, and social being.
2. Identify, describe and explain the interactions of the internal and external influences and effects in human development and behavior over the course of the human life span.

Bakersfield College General Education Pattern

A. Communication in the English Language and Critical Thinking (6 units)
Courses in language and rationality are those which develop the principles and applications of language toward logical thought, clear and precise expression, and critical evaluation and communication. Take 3 units in A.1 and 3 units in A.2.

A.1. Oral Communication (3 units) COMM B1, B4, B8
A.2. Written Communication (3 units) ENGL B1a, B2, B3

B. Physical Universe and Life Forms (6 units)
Courses in the natural sciences are those that examine the physical universe, its life forms, and its natural phenomena. Further, courses in the natural sciences help develop an appreciation and understanding of the scientific method. Courses in the natural sciences, math and logic help students apply logical, qualitative and quantitative reasoning in solving problems or analyzing arguments. Take 3 units in B.1 and 3 units in B.2.

B.1. Natural Sciences (3 units)
- **Life Sciences:**
  - ANSC B1
  - ANTH B1
  - BIOL B3a, B11, B16, B18, B32, B33
  - CRPS B1, B10
  - FORE B2
  - PSYC B1b
  - SOIL B1

- **Physical Sciences:**
  - ASTR B1, B2, B3
  - CHEM B1a, B2a, B11, B18
  - ERSC B10; B10L
  - GEOG B1, B1L, B3
  - GEOL B10, B10L, B11, B11L
  - PHSC B12
  - PHYS B2a, B4a

B.2. Mathematics and Logic Analytical Thinking (3 units)
- COMM B5
- MATH B1a, B1b, B2, B4a, B6a, B6b, B6c, B22, B23, B70
- PHIL B7, B9
- PSYC B5, B6

C. Arts, Literature, Philosophy and Foreign Language (3 units)
Courses in the Arts, Literature, Philosophy and Foreign Language are those which study the cultural activities and artistic expressions of human beings. The courses help develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them. Art and language study may consist of historical or stylistic survey courses, courses involving speaking (signing) and understanding a language, hands-on creation or re-creation of examples of visual or performing arts, and/or courses which develop specific skills necessary for engaging in visual or performing arts.

C.1. Arts
- ART B1, B2, B4, B5, B10, B16, B17, B20, B24, B35, B36, B37*
- MUSC B2, B4ab, B5ab, B6ab, B9ab, B10a, B12a, B13a, B14a, B17a, B21a, B21b, B22, B23, B24*, B27
- ORNH B36
- SPAN B1
- THEA B1, B2a, B2b, B12a, B20, B27, B31, B32

C.2. Humanities
- ASL B1, B2, B3, B4, B7
- COMM B21
- ENGL B1b, B5a, B5b, B10, B20a*, B21*, B24, B27, B38, B30a, B30b, B33
- JAPN B1, B2, B3
- PHIL B6a, B10, B12, B18, B37*
- SPAN B1, B2, B3, B4, B35

D. Social, Political, Legal and Economic Institution and Behavior, Historical Background (9 units for AA; 6 units for AS)
Courses in the social and behavioral sciences are those which focus on people as individuals and as members of society. The courses will help develop an understanding of the methods of inquiry used by the social and behavioral sciences. For an Associate in Arts degree, choose six units from D.1 and/or D.2 and 3 units from D.3. For an Associate in Science degree, take 3 units from either D.1 or D.2 and three units from D.3.

D.1. Foundations in the Behavioral Sciences
D.2. Foundation in the Social Sciences
- **AGRI** B1
- **AGBS** B2
- **ANTH** B2*, B3, B5*
- **BSAD** B20
- **COMM** B7
- **CRIM** B1, B5
- **ECON** B1, B2
- **GEOG** B2*
- **HIST** B1, B2*, B4a*, B4b*, B15, B17a*, B17b*, B18*, B20a*, B20b*, B25*, B30a*, B33*, B36*
- **JRNL** B1*
- **POLS** B1*, B2*, B3*, B12*, B16
- **PSYC** B20 (PSYC B20), B28*, B36*, B45*

D.3. American (U.S. Institutions)
- **HIST** B17a*, B17b*, B18*, B20a*, B30b*, B36*
- **POLS** B1*, B12*

E. Lifelong Understanding and Self-Development (4 units)
Courses in this area will prepare students for lifelong integrated physiological and psychological development. Take 3 units from one of the following courses:
- **COMM** B2
- **HLED** B1
- **NUTR** B10
- **Meds** B35, or completion of an approved Allied Health Program
- **PHED** B36
- **PSYC** B1a, B30, B33
- **STDV** B6

No more than one unit of activity/skills course work may be used to satisfy the Area E requirement. Take 1 unit from the following PHED courses:
- **PHED** B2sb, B3adp, B6a, B6bb, B6blb, B6fcx, B6g, B6jd (DANC B6[D]), B6sc, B6t, B6v, B6wt, B10, B11, B12, B13, B14, B16, B17, B20, B22, B23, B24, B25, B26, B27, B28, B29, B32, B33

*Course satisfies the Multicultural Requirement.

Multicultural Requirement
Bakersfield College requires students to take courses that are inclusive of multicultural perspectives found in American and global society. This requirement may be satisfied through studying either American ethnic groups or world cultures.

**Note:** Students must complete at least one class identified with an (*) to satisfy the Multicultural Requirement for graduation.

The following courses satisfy both a Bakersfield College General Education category and the Multicultural Requirement:
- **ANTH** B2, B5
- **ART** B37
Programs, Certificates, and Degrees

Listed below are Job Skills Certificates (JSC), Certificates of Achievement (CA), Associate in Arts (AA), Associate in Science (AS), and Associate in Arts for Transfer (AA-T) which Bakersfield College currently offers. Suggested courses of study that may be found in the catalog are indicated by (JSC), (CA), (AA), (AS) or (AA-T). An asterisk (*) indicates that the student must consult the appropriate department chair for further information. Job Skills Certificates (less than 18 units) document the satisfactory completion of training in a specific area of study. Certificates of Achievement (18 units of study or more) are awarded for the completion of a formal instructional program which is designed to give the learner skills, knowledge, and attitudes for a specific field or endeavor.

To apply for any certificate, students must have earned at least three credits of the courses required for the certificate at Bakersfield College. Upon completion of the requirements for a certificate, the student contacts the academic department to complete an application for a Certificate of Achievement or a Job Skills Certificate. Certificates are issued by the department 6-8 weeks after the receipt of the application. Only Certificates of Achievement will be posted to transcripts.

Legend
Job Skills Certificates (JSC)
Certificates of Achievement (CA)
Associate in Arts (AA)
Associate in Science (AS)
Associate in Arts for Transfer (AA-T)
Associate in Science for Transfer (AS-T)
Baccalaureate Degree (B)

Baccalaureate Degree Program in Industrial Automation (B)

<table>
<thead>
<tr>
<th>Program</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration of Justice (AS-T)</td>
<td>72</td>
</tr>
<tr>
<td>AGRICULTURE</td>
<td></td>
</tr>
<tr>
<td>Agriculture Business Management (CA)</td>
<td>73</td>
</tr>
<tr>
<td>Agriculture Business Management (AA)</td>
<td>73</td>
</tr>
<tr>
<td>Agriculture Business Management (AS)</td>
<td>74</td>
</tr>
<tr>
<td>Animal Science (CA)</td>
<td>75</td>
</tr>
<tr>
<td>Animal Science (AA)</td>
<td>75</td>
</tr>
<tr>
<td>Animal Science (AS)</td>
<td>76</td>
</tr>
<tr>
<td>Environmental Horticulture (CA)</td>
<td>76</td>
</tr>
<tr>
<td>Environmental Horticulture (AA)</td>
<td>76</td>
</tr>
<tr>
<td>Environmental Horticulture (AS)</td>
<td>77</td>
</tr>
<tr>
<td>Forestry (CA)</td>
<td>77</td>
</tr>
<tr>
<td>Forestry (AA)</td>
<td>77</td>
</tr>
<tr>
<td>Forestry (AS)</td>
<td>77</td>
</tr>
<tr>
<td>Plant Science (CA)</td>
<td>78</td>
</tr>
<tr>
<td>Plant Science - Crops Emphasis (AA)</td>
<td>79</td>
</tr>
<tr>
<td>Plant Science - Crops Emphasis (AS)</td>
<td>79</td>
</tr>
<tr>
<td>Plant Science - Horticulture Emphasis (AA)</td>
<td>80</td>
</tr>
<tr>
<td>Plant Science - Horticulture Emphasis (AS)</td>
<td>80</td>
</tr>
<tr>
<td>Pre-Veterinary Medicine Option</td>
<td>80</td>
</tr>
<tr>
<td>Registered Veterinary Technician (JSC)</td>
<td>80</td>
</tr>
<tr>
<td>AMERICAN SIGN LANGUAGE</td>
<td></td>
</tr>
<tr>
<td>American Sign Language (AA)</td>
<td>81</td>
</tr>
<tr>
<td>ANTHROPOLOGY</td>
<td></td>
</tr>
<tr>
<td>Anthropology (AA-T)</td>
<td>81</td>
</tr>
<tr>
<td>APPRENTICESHIP</td>
<td></td>
</tr>
<tr>
<td>Apprenticeship (AA)</td>
<td>82</td>
</tr>
<tr>
<td>Apprenticeship (CA)</td>
<td>82</td>
</tr>
<tr>
<td>ARCHITECTURE</td>
<td></td>
</tr>
<tr>
<td>Architectural Computer Aided Drafting (JSC)</td>
<td>82</td>
</tr>
<tr>
<td>Architectural Drafting (AA)</td>
<td>83</td>
</tr>
<tr>
<td>Architectural Drafting (AS)</td>
<td>83</td>
</tr>
<tr>
<td>3rd Column</td>
<td>4th Column</td>
</tr>
<tr>
<td>------------</td>
<td>------------</td>
</tr>
<tr>
<td>ART</td>
<td>83 Studio Arts (AA-T)</td>
</tr>
<tr>
<td>AUTOMOTIVE</td>
<td>84 Auto Brakes and Wheel Alignment (CA)</td>
</tr>
<tr>
<td></td>
<td>84 Auto Engine Overhaul (CA)</td>
</tr>
<tr>
<td></td>
<td>85 Auto Tune-Up and Emission Systems (CA)</td>
</tr>
<tr>
<td></td>
<td>85 Automotive Heating, Ventilation &amp; Air Conditioning-HVAC (JSC)</td>
</tr>
<tr>
<td></td>
<td>86 Automotive Management (JSC)</td>
</tr>
<tr>
<td></td>
<td>86 Automotive Power Trains (CA)</td>
</tr>
<tr>
<td></td>
<td>87 Basic and Advanced Clean Air Car Course (JSC)</td>
</tr>
<tr>
<td></td>
<td>87 Industrial Technology, Automotive Option (AS)</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>87 Biology-General Biology (AS)</td>
</tr>
<tr>
<td></td>
<td>88 Biology-Human Biology (AS)</td>
</tr>
<tr>
<td>BUSINESS ADMINISTRATION</td>
<td>89 Business Administration (AS-T)</td>
</tr>
<tr>
<td></td>
<td>89 Accounting (AA)</td>
</tr>
<tr>
<td></td>
<td>89 Office Assistant (JSC)</td>
</tr>
<tr>
<td></td>
<td>90 Office Assistant (CA)</td>
</tr>
<tr>
<td></td>
<td>90 Administrative Office Assistant (AA)</td>
</tr>
<tr>
<td></td>
<td>91 Bookkeeping (CA)</td>
</tr>
<tr>
<td></td>
<td>91 General Business (JSC)</td>
</tr>
<tr>
<td></td>
<td>91 Retail Management (CA)</td>
</tr>
<tr>
<td>CHEMISTRY</td>
<td>92 Chemistry (AS)</td>
</tr>
<tr>
<td>CHILD DEVELOPMENT</td>
<td>92 Early Childhood Education (AS-T)</td>
</tr>
<tr>
<td></td>
<td>93 Child Development Assistant Teacher (JSC)</td>
</tr>
<tr>
<td></td>
<td>93 Child Development Associate Teacher (JSC)</td>
</tr>
<tr>
<td></td>
<td>93 Child Development Teacher (CA)</td>
</tr>
<tr>
<td></td>
<td>94 Child Development Master Teacher-Infant Toddler (CA)</td>
</tr>
<tr>
<td></td>
<td>94 Child Development Master Teacher-Special Education (CA)</td>
</tr>
<tr>
<td>COMMUNICATION</td>
<td>94 Communication Studies (AA-T)</td>
</tr>
<tr>
<td></td>
<td>95 Communication (CA)</td>
</tr>
<tr>
<td>COMPUTER STUDIES</td>
<td>96 Computer Science (AS-T)</td>
</tr>
<tr>
<td>CONSTRUCTION</td>
<td>96 Construction Technology (CA)</td>
</tr>
<tr>
<td></td>
<td>96 Industrial Technology, Construction Option (AS)</td>
</tr>
<tr>
<td>CORRECTIONAL ADMINISTRATION</td>
<td>97 Correctional Administration (AA)</td>
</tr>
<tr>
<td>CRIMINAL JUSTICE</td>
<td>97 Criminal Justice (AA)</td>
</tr>
<tr>
<td>ECONOMICS</td>
<td>98 Economics (AA-T)</td>
</tr>
<tr>
<td>ELECTRONICS TECHNOLOGY</td>
<td>98 Electronics Technology (CA)</td>
</tr>
<tr>
<td></td>
<td>99 Electronics - Industrial Automation (JSC)</td>
</tr>
<tr>
<td></td>
<td>99 Electronics - Industrial Communication (JSC)</td>
</tr>
<tr>
<td></td>
<td>99 Electronics - Industrial Maintenance (JSC)</td>
</tr>
<tr>
<td></td>
<td>100 Electronics - Manufacturing Automation (JSC)</td>
</tr>
<tr>
<td></td>
<td>100 Industrial Technology, Electronics Option (AS)</td>
</tr>
<tr>
<td>EMERGENCY MEDICAL TECHNICIAN</td>
<td>100 Emergency Medical Technician (EMT-1)</td>
</tr>
<tr>
<td></td>
<td>101 Emergency Medical Technician 1 (JSC)</td>
</tr>
<tr>
<td>ENGINEERING</td>
<td>101 Engineering (AS)</td>
</tr>
<tr>
<td></td>
<td>102 Engineering Technology (AS)</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>102 English (AA-T)</td>
</tr>
<tr>
<td>FIRE TECHNOLOGY</td>
<td>103 Fire Technology (CA)</td>
</tr>
<tr>
<td></td>
<td>104 Fire Technology (AA)</td>
</tr>
<tr>
<td></td>
<td>104 Wildland Fire Technology (AS)</td>
</tr>
<tr>
<td></td>
<td>105 Chief Officer Certification (CA)</td>
</tr>
<tr>
<td></td>
<td>105 Fire Officer Certification (CA)</td>
</tr>
<tr>
<td></td>
<td>106 Fire Academy (JSC)</td>
</tr>
<tr>
<td></td>
<td>106 Wildland Firefighting (JSC)</td>
</tr>
<tr>
<td></td>
<td>106 Fire Technology (JSC)</td>
</tr>
<tr>
<td>FOODS/NUTRITION</td>
<td>107 Child Nutrition Management (CA)</td>
</tr>
<tr>
<td></td>
<td>107 Child Nutrition Program Management Option (AS)</td>
</tr>
<tr>
<td></td>
<td>107 Culinary Arts (CA)</td>
</tr>
<tr>
<td></td>
<td>108 Culinary Arts (AS)</td>
</tr>
<tr>
<td></td>
<td>108 Dietetic Services Supervisor Program (CA)</td>
</tr>
<tr>
<td></td>
<td>109 Foodservice Management Option (AS)</td>
</tr>
<tr>
<td>GEOLOGY</td>
<td>109 Geology (AS-T)</td>
</tr>
<tr>
<td>HISTORY</td>
<td>110 History (AA-T)</td>
</tr>
<tr>
<td>HUMAN SERVICES</td>
<td>110 Human Services (JSC)</td>
</tr>
<tr>
<td></td>
<td>111 Human Services (AA)</td>
</tr>
<tr>
<td>INDUSTRIAL DRAWING</td>
<td>111 AutoCAD (JSC)</td>
</tr>
<tr>
<td></td>
<td>111 Industrial Drawing (AA)</td>
</tr>
<tr>
<td></td>
<td>112 Industrial Technology-Industrial Drawing Option (AS)</td>
</tr>
<tr>
<td>INDUSTRIAL TECHNOLOGY</td>
<td>112 Industrial Technology-General (AS)</td>
</tr>
<tr>
<td>JOURNALISM</td>
<td>113 Journalism (AA-T)</td>
</tr>
<tr>
<td>KINESIOLOGY</td>
<td>113 Kinesiology (AA-T)</td>
</tr>
<tr>
<td>LIBERAL ARTS</td>
<td>114 Liberal Arts (AA)</td>
</tr>
<tr>
<td>MANUFACTURING/MACHINE TECHNOLOGY</td>
<td>WOODWORKING/CABINETMAKING</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>114 Basic Machine Tool Operations-Lathe, Mill (JSC)</td>
<td>132 Woodworking/Cabinetmaking (JSC)</td>
</tr>
<tr>
<td>115 Computer Numerical Control Programming (JSC)</td>
<td>132 Cabinetmaking (CA)</td>
</tr>
<tr>
<td>115 Manufacturing Technology (CA)</td>
<td>127 Industrial Technology, Woodworking and Cabinetmaking Option (AS)</td>
</tr>
<tr>
<td>115 Industrial Technology-Manufacturing Technology Option (AS)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MATHEMATICS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>116 Mathematics (AA-T)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MUSIC</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>116 Music (AA-T)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NURSING</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>116 Nursing (AS)</td>
<td></td>
</tr>
<tr>
<td>118 LVN to Associate Degree Nursing Program (AS)</td>
<td></td>
</tr>
<tr>
<td>120 LVN to Non-Degree Nurse (30 unit option)</td>
<td></td>
</tr>
<tr>
<td>120 Vocational Nursing Program (CA)</td>
<td></td>
</tr>
<tr>
<td>121 Nurse Assistant (JSC)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PHILOSOPHY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>122 Philosophy (AA)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PHYSICS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>123 Physics (AS-T)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POLITICAL SCIENCE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>123 Political Science (AA-T)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRIMARY CARE ASSOCIATE/PHYSICIAN'S ASSISTANT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>124 Primary Care Associate/Physician's Assistant</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PSYCHOLOGY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>124 Psychology (AA-T)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RADIOLOGIC TECHNOLOGY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>128 Radiologic Technology (AS)</td>
<td></td>
</tr>
<tr>
<td>128 Principles of Fluoroscopy (JSC)</td>
<td></td>
</tr>
<tr>
<td>128 Principles of Venipuncture (JSC)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOCIOLOGY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>129 Sociology (AA-T)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPANISH</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>129 Spanish (AA-T)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THEATRE ARTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>130 Theatre Arts (AA-T)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WELDING</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>130 Blueprint Reading and Layout for Welders (JSC)</td>
<td></td>
</tr>
<tr>
<td>131 Gas Metal Arc/Gas Tungsten Arc Welding/Flux Core Arc Welding (JSC)</td>
<td></td>
</tr>
<tr>
<td>131 Shielded Metal Arc Welding (JSC)</td>
<td></td>
</tr>
<tr>
<td>131 Welding (CA)</td>
<td></td>
</tr>
<tr>
<td>132 Industrial Technology, Welding Option (AS)</td>
<td></td>
</tr>
<tr>
<td>132 Welding Certification (JSC)</td>
<td></td>
</tr>
</tbody>
</table>
Programs
Baccalaureate Degree

Baccalaureate Degree Program in Industrial Automation

Industrial automation represents the technology-driven business model of the 21st century. In today's industry, engineers involved in developing new processes or products work closely with technologists who apply scientific and technical knowledge in the design, manufacturing, and repair of automation systems. Bakersfield College's Baccalaureate Degree Program in Industrial Automation will train students with the skill set those technologists require, meeting the needs of a host of local employers, including major companies in the agriculture, distribution, and manufacturing sectors.

This degree focuses on the application of electronics and computer technology to industrial automation systems, which may apply to various categories of job titles in the following areas:

- Maintenance of Industrial Equipment
- Automation (Programmable Logic Controllers/PAC's, robotics, materials and product handling, motion control/ motor drives, networked control systems, automated production equipment, integration of various technologies into solutions, and related areas)
- Process Control and Measurement (Instrumentation, Industrial Measurement)
- Quality Assurance/Quality Control
- Industrial Safety and Hygiene
- Technical Management (managing technical employees)
- Operations Management (managing company operations)
- Facilities Planning, Infrastructure, Upgrade Supervision
- Operations Management
- Technical Sales and Marketing
- Design and Engineering Operations (positions that do not require the employee to have completed a four-year Engineering degree and/or be licensed)

The program prepares students for careers in the design, operation, and management of industrial automation systems focusing on the local industries that utilize these technologies, such as petroleum production, food production, fabrication, and logistics. Significant emphasis is placed on project based learning facilitated by significant laboratory work.

There will be approximately 62 units of general education and major coursework for lower division requirements of the degree. The lower division general education pattern closely follows the CSU GE Breadth Course pattern, including specific GE courses required for this program. In addition, most of the lower division core electronics courses will need to be completed such as: basic electronics, computer integrated manufacturing, programmable logic controllers, and instrumentation/process control.

There will be 60 units of upper division coursework, including new upper division technical and general education courses. Upper division technical courses will cover a broad range of industrial topics including automation networks and systems, automation measurement and motion control, and automation applications in manufacturing and production processes, but will also include courses in project management, leadership and entrepreneurship, quality assurance and facilities planning and operations.

Program Learning Outcomes

Upon successful completion, the student will:

- Apply critical and analytical thinking skills to industry-related problems in the areas of safety, quality assurance, and design of systems;
- Display effective communication skills commonly used in industry, including presentation and writing skills;
- Demonstrate a broad understanding of the mathematical and scientific principles utilized in industrial automation and manufacturing;
- Demonstrate competency in industrial automation and instrumentation, including relevant hardware and software utilized in industry;
- Manage automation and manufacturing projects applying knowledge of budgetary and scheduling principles in an ethical environment.

Transfer Degrees

Associate in Science in Administration of Justice for Transfer

The Associate in Science in Administration of Justice for Transfer degree (AS-T in Administration of Justice) is intended to prepare students to transfer to CSU campuses that offer bachelor's degrees in Administration of Justice or Criminal Justice. Students who complete this degree will receive "priority admission with junior status to the California State University system". This degree requires students to complete 60 CSU transferable units including completion of CSU GE or IGETC and 18-20 units in the major with a cumulative GPA of 2.0 or better. Title 5 requires that students earn a grade of 'C' or better in all major coursework. A 'P' (Pass) grade is not acceptable for courses in the major. There are no additional graduation requirements.

Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM B1</td>
<td>Introduction to Criminal Justice</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B2</td>
<td>Criminal Law</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List A (any two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM B3</td>
<td>Introduction to Evidence</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B4</td>
<td>Constitutional Criminal Procedure</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B5</td>
<td>Community Relations</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B8</td>
<td>Criminal Investigation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B9</td>
<td>Juvenile Justice System</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B12</td>
<td>Forensic and Scientific Aspects of Evidence</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B21</td>
<td>Introduction to Correctional Administration</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List B (any two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>5.0</td>
</tr>
<tr>
<td>PSYC B1A</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Required Units 18-20

Anthropology

Associate of Arts Degree for Transfer

The Associate of Arts in Anthropology Degree for Transfer is designed to provide students a clear pathway to the CSU anthropology major and completion of the anthropology baccalaureate degree, to grant guaranteed admission to a CSU to a
Anthropology is the scientific study of humanity, examining human biology and culture today and in the past; and biological and cultural change through time. Students with an Anthropology major concentrate in one of the following areas: cultural anthropology, linguistic anthropology, biological/physical anthropology or archaeology. The major in anthropology prepares students for a variety of research/academic positions (e.g. museums, colleges and universities, zoos); and non-academic/research positions (e.g. business, medicine, cultural resource management, government and NGO’s). The objective of this program is to prepare students for transfer to a four-year university. Anthropology’s emphasis on research skills, organizational skills, critical thinking, technical writing, project management and use of a holistic perspective make it an excellent undergraduate major for a variety of fields and graduate programs.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University - Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the Kern Community College District Board of Trustees.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a 'C' or better. 'P' (Pass) grade is not acceptable for courses in the major.

**Required Core - 9 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH B1</td>
<td>Physical Anthropology</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH B2</td>
<td>Introduction to Cultural Anthropology</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH B3</td>
<td>Introduction to Anthropology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A - Select at least one, 3-5 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH B5</td>
<td>North American Indians</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for Behavioral and Social Sciences</td>
<td>5.0</td>
</tr>
</tbody>
</table>

**List B - Select at least one, 4 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B6</td>
<td>Research Methods for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>GEOL B10</td>
<td>Introduction to Geology</td>
<td>3.0</td>
</tr>
<tr>
<td>GEOL B10L</td>
<td>Introduction to Geology Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>ERSC B10</td>
<td>Introduction to Earth Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ERSC B10L</td>
<td>Introduction to Earth Science Laboratory</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**List C - Select at least one, 3 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B1</td>
<td>Art Appreciation</td>
<td>3.0</td>
</tr>
<tr>
<td>GEOG B2</td>
<td>Human Geography</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B24</td>
<td>A Survey of World Music</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL B37</td>
<td>Introduction to World Religions</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Units in Major**

19-21

**Associate in Science in Business Administration for Transfer**

The Associate in Science in Business Administration for Transfer degree (AS-T in Business Administration) is designed to provide students a clear transfer pathway to the CSU business administration major and completion of the business administration baccalaureate degree, to grant guaranteed admission to a CSU to a similar major with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. The Associate of Science in Business Administration for Transfer degree provides a study of key business concepts. Business Administration majors will be able to analyze business scenarios and use numerical, graphical, symbolic, and verbal representations to effectively solve problems and communicate those solutions. Business Administration majors will be able to communicate economic effects, effectively convey financial information, and explain social, political, and ethical implications of business decision-making. The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University - Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a 'C' or better. 'P' (Pass) grade is not acceptable for courses in the major.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B1</td>
<td>Financial Accounting</td>
<td>4.0</td>
</tr>
<tr>
<td>BSAD B2</td>
<td>Managerial Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B18</td>
<td>Business Law</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B1</td>
<td>Principles of Economics: Micro</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B2</td>
<td>Principles of Economics: Macro</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B22</td>
<td>Elementary Probability &amp; Statistics</td>
<td>4.0</td>
</tr>
</tbody>
</table>
**List A (any one of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B2</td>
<td>Business Calculus</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B23</td>
<td>Finite Math</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List B (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B20</td>
<td>Introduction to Business</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Required Units: 26-27

---

**Associate in Arts in Communication Studies for Transfer**

The Associate in Arts in Communication Studies for Transfer is intended for all students who plan to complete an AA in Communication Studies. This degree is especially valuable for those students planning on completing a bachelor's degree in Communication or a similar major at a CSU campus because the Associate in Arts in Communication Studies for Transfer guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Communication Studies for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Communication Studies for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. No additional graduation requirements are required to complete this degree.

The Associate in Arts in Communication Studies for Transfer equips students with relational and presentation skills that provide a foundation for success throughout students' educational careers, business careers and personal interactions. Students learn about verbal and nonverbal channels of communication that inform, persuade, manage, interpret, direct, or influence social interaction in diverse contexts. The degree introduces students to both established and contemporary theories of human communication pertaining to societal construction, maintenance, and perpetuation of acceptable patterns of communicative conduct. Students choosing this degree also acquire practical communication skills enabling them to competently navigate social interaction within interpersonal, small group, public, organizational, and intercultural contexts. Students learn field-specific nomenclature as well as effective oral, listening, and critical thinking skills needed to successfully manage communication encounters in a variety of professional and personal environments. Students will be prepared in this lower division work for a baccalaureate degree in Communication Studies, Speech Communication, or a similar degree.

To Achieve the Associate in Arts for Transfer

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Communication Studies Associate in Arts for Transfer degree.

---

**To Transfer Coursework**

A minimum of 18 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- form and present informative persuasive messages.
- demonstrate competence in both active and empathic listening.
- present oral messages to appropriate audiences and adhere to conventions of message delivery.
- manager personal communication apprehension and anxiety.

---

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B1*</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Group A (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B2*</td>
<td>Interpersonal Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B5*</td>
<td>Argumentation and Rhetoric</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B8*</td>
<td>Small Group Communication</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Group B (any two of the following or any Group A course not used)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B4*</td>
<td>Persuasive Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B6*</td>
<td>Intercultural Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B7*</td>
<td>Organizational Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B21</td>
<td>Oral Interpretation</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Group C (any one of the following or any Group A or B course not used)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B9</td>
<td>Health Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B10</td>
<td>Communication and Leadership</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B2</td>
<td>Advanced Composition and Critical</td>
<td>4.0</td>
</tr>
<tr>
<td>JRNL B1</td>
<td>Media and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B2</td>
<td>Beginning Reporting Thinking</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B1a</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Required Subtotal: 18.0

CSU General Education or IGETC Pattern: Transfer Electives (as needed to reach 60 transferable units) Degree Total: 60.0

*Courses with an asterisk can be double counted for General Education

---

**Associate in Science in Computer Science for Transfer**

The Associate in Science in Computer Science for Transfer degree (AS-T in Computer Science) is designed to provide students a clear transfer pathway to the CSU computer science major and completion of the computer science baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. Students will take courses in computer science and related fields that will provide the theoretical and practical knowledge necessary to work in a variety of computer-related fields such as Software Engineering, Computer Engineering, Computer Systems Analysis, Network Engineering, Cloud Computing, Mobile

---
The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtaining of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B11</td>
<td>Programming Concepts and Methodologies I</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B12</td>
<td>Programming Concepts II</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B13</td>
<td>Computer Architecture &amp; Organization</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B14</td>
<td>Discrete Structures</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B6a</td>
<td>Analytic Geometry and Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6b</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4a</td>
<td>Mechanics and Wave Motion</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4b</td>
<td>Heat, Electricity, Magnetism</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total required units in major area of emphasis: 28

### Associate in Science in Early Childhood Education for Transfer

The Associate in Science in Early Childhood Education for Transfer degree is designed to train students to work in a variety of early childhood settings. The two-year program primarily serves students desiring an early childhood background, supervised student teaching experience and fulfillment of academic requirements for a Child Development Teacher Permit. Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Development and Family Relations Associate in Science degree.

Early Childhood Education Careers (ECE): ECE Site Supervisor, ECE Assistant Teacher, ECE Associate Teacher, ECE Master Teacher, ECE Program Director; Licensed Day Care Provider; After School Coordinator; ECE Mental Health Case Manager, Family Service Advocate, Child Advocate, Social Worker/Child Protective Services, Elementary Education Credential Teacher; Marriage Family Counselor; School Psychologist, College Instructor, Doula, Lactation Consultant.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtaining of a minimum grade point average of 2.0.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B20</td>
<td>Principles and Practices</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth Through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B22</td>
<td>Observation and Assessment: Birth Through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B32</td>
<td>Teaching in a Diverse Society</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B36</td>
<td>Developmentally Appropriate Curriculum</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B41</td>
<td>Supervised Field Experience in Early Childhood Education</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B42</td>
<td>Child, Family, and Community</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B49</td>
<td>Child Health, Safety, and Nutrition</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Required Units: 24

### Associate in Arts in Economics for Transfer

The Associate in Arts in Economics for Transfer Degree is designed to prepare students for transfer into the CSU system to complete a baccalaureate degree in Economics or a similar major. It is designed for students interested in preparing for advanced degrees in Economics, Business, or Law, and for those students concerned with the economic behavior of consumers, businesses, and governments. Economics majors have a wide variety of career opportunities in business, law, journalism, education, politics, finance and banking, government, public and private overseas service, and labor leadership. Many economics majors go on to pursue graduate study in related professional areas, such as law, business, or public administration.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtaining of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B1</td>
<td>Financial Accounting</td>
<td>4.0</td>
</tr>
<tr>
<td>BSAD B2</td>
<td>Managerial Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
</tbody>
</table>
List B (any one of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6C</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6E</td>
<td>Elementary Linear Algebra</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 20-22

**Associate in Arts in Elementary Teacher Education for Transfer**

The Associate in Arts in Elementary Teacher Education for Transfer degree is designed to prepare students for transfer to a California State University traditional or integrated teacher preparation program. The Associate in Arts in Elementary Teacher Education for Transfer degree incorporates the elementary subject matter competence requirements as established by the California Teacher Credentialing Commission and prepares students for the California Subject Examinations for Teachers (CSET) Multiple Subjects exam. Additionally, the degree may also serve as preparation for paraprofessional positions in the K-12 classroom, meeting unit requirements for paraprofessionals as established by the No Child Left Behind Act.

**Program Learning Outcomes**

Upon successful completion, the student will:

1. evaluate elements of diversity and diverse learning styles in student populations.
2. analyze how teachers and schools can promote learning for all students.
3. demonstrate proficiency in 14 content areas required for subject matter competency for elementary teachers.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B11</td>
<td>Concepts of Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B1</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC B24</td>
<td>Early Field Experience for Elementary Teachers</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B1A</td>
<td>Expository Composition</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B1B</td>
<td>Introduction to Types of Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ERSC B10</td>
<td>Introduction to Earth Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ERSC B10L</td>
<td>Earth Science Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>GEOG B5</td>
<td>World Regional Geography</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B1</td>
<td>World History from the Origins of Civilization to 1600</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B23</td>
<td>Finite Mathematics</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic and Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B17A</td>
<td>History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B4A</td>
<td>Mathematics for Elementary School Teaching</td>
<td>4.0</td>
</tr>
<tr>
<td>PHSC B12</td>
<td>Physical Science</td>
<td>4.0</td>
</tr>
<tr>
<td>POLS B1</td>
<td>American Government: National, State and Local</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A: select one (4 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B3</td>
<td>Argumentative Writing and Critical Thinking through Literature</td>
<td>4.0</td>
</tr>
<tr>
<td>PHIL B9</td>
<td>Critical Thinking and Advanced Composition</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**List B: select one (3 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B1</td>
<td>Art Appreciation</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B22</td>
<td>Music Appreciation</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B20</td>
<td>Introduction to Theatre</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List C: select one (3 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B18</td>
<td>History of California</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 53

**Associate in Arts in English for Transfer**

The Associate in Arts in English for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in English or similar major. The Associate in Arts in English for Transfer degree provides a study of literature and expository writing. English majors will be able to analyze literary work and will be able to demonstrate an understanding of and an ability to describe ways in which literature reflects historical, intellectual, and cultural contexts, as well as aesthetic tastes; English majors will be able to evaluate literature and expository and argumentative papers and essays through application of critical thinking techniques; and they will be able to write logical and coherent expository and argumentative papers, essays, summaries, and paraphrases using correctly the standard conventions of written English. Many employers value the writing and critical thinking skills acquired by English majors.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B1B</td>
<td>Intro to Types of Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B2</td>
<td>Advanced Composition and Critical Thinking</td>
<td>4.0</td>
</tr>
</tbody>
</table>
The following is required for the completion of all AA-T or AS-T physical and historical geology, as well as a general introduction to the teaching profession. The major is designed to provide students as a geology technician or seeking a solid science background for desire to be employed within the local petroleum industry working. The major in geology is appropriate for interested students who provides solid preparation that is appropriate for a variety of personal, academic, or vocational endeavors.

### Associate in Arts in History for Transfer

The Associate in Arts in History for Transfer Degree is designed to provide students a clear transfer pathway to the CSU history major and completion of the history baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. Historians analyze the events and processes of the past, both to gain more understanding of human nature, in any place and at any time, and to explain the distinctive dynamics of particular societies, usually in regional and chronological contexts. Historical study is an important part of the liberal arts program and the development of critical thinking skills. Most careers in history require education beyond the associate degree and some require a graduate degree. The study of history can serve as preparation for graduate study in education, law, business, government and journalism. Many employers value the writing and critical thinking skills acquired by History majors. Successful completion of the Associate in Arts in History for Transfer Degree guarantees the student acceptance to a local California State University to pursue a baccalaureate degree.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL B10</td>
<td>Introduction to Geology</td>
<td>3.0</td>
</tr>
<tr>
<td>GEOL B10L</td>
<td>Introduction to Geology Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>GEOL B11</td>
<td>Historical Geology</td>
<td>3.0</td>
</tr>
<tr>
<td>GEOL B11L</td>
<td>Historical Geology Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>CHEM B1a</td>
<td>General Chemistry I</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1b</td>
<td>General Chemistry &amp; Chemical Analyses</td>
<td>5.0</td>
</tr>
<tr>
<td>MATH B6a</td>
<td>Analytic Geometry and Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6b</td>
<td>Analytic Geometry and Calculus II</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total required units 19

### Associate in Science in Geology for Transfer

The Associate in Science in Geology Degree for Transfer is designed to provide a solid foundation to the CSU Geology major and completion of the Geology baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. Historians analyze the events and processes of the past, both to gain more understanding of human nature, in any place and at any time, and to explain the distinctive dynamics of particular societies, usually in regional and chronological contexts. Historical study is an important part of the liberal arts program and the development of critical thinking skills. Most careers in history require education beyond the associate degree and some require a graduate degree. The study of history can serve as preparation for graduate study in education, law, business, government and journalism. Many employers value the writing and critical thinking skills acquired by History majors. Successful completion of the Associate in Arts in History for Transfer Degree guarantees the student acceptance to a local California State University to pursue a baccalaureate degree.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST B17A</td>
<td>History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B17B</td>
<td>History of the United States since 1870</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units 19
The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL B1*</td>
<td>Media and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B2</td>
<td>Beginning Reporting</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B27a</td>
<td>Newspaper Production for Reporters</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL B15</td>
<td>Press Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B16</td>
<td>Multimedia Reporting</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B26</td>
<td>Newspaper Production/Editors</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**List A (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL B17</td>
<td>Black and White Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B5*</td>
<td>Rhetoric &amp; Argumentation</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B1*</td>
<td>Principles of Economics-Micro</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B2*</td>
<td>Principles of Economics-Macro</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B22</td>
<td>Introduction to Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>POLS B2*</td>
<td>Comparative Government</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 18-20

**Associate in Arts in Kinesiology for Transfer**

The Associate in Arts in Kinesiology for Transfer (AA-T) is intended for all students who plan to complete an Associate in Arts in Kinesiology. This degree is especially valuable for those students planning on completing a bachelor’s degree in Kinesiology at a CSU campus because the Associate in Arts in Kinesiology for Transfer guarantees admission to the CSU system (not to a particular campus or major). In order to earn Associate in Arts in Kinesiology for Transfer, the students must complete 60 required semester units of CSU-transferable coursework which includes the CSU General Education Breadth or IGETC General Education requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Kinesiology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system.

Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B32</td>
<td>Human Anatomy and Physiology I</td>
<td>4.0</td>
</tr>
<tr>
<td>BIOL B33</td>
<td>Human Anatomy and Physiology II</td>
<td>4.0</td>
</tr>
<tr>
<td>PHED B42</td>
<td>Introduction to Kinesiology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Movement Based Courses (any three of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED B2SB</td>
<td>Aquatics: Beginning Swimming</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B3ADP</td>
<td>Adaptive Physical Education</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6A</td>
<td>Coed Activity/Archery</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6BB</td>
<td>Coed Team and Individual Activities: Basketball</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6BLB</td>
<td>Coed Team and Individual Activities: Beginning Ballet</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6fcx</td>
<td>Coed Team and Individual Activities: Fitness Center</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6G</td>
<td>Coed Team and Individual Activities: Golf</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6jd</td>
<td>Coed Team and Individual Activities: Jazz Dance</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6SC</td>
<td>Coed Team and Individual Activities: Soccer</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6T</td>
<td>Coed Team and Individual Activities: Tennis</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6wt</td>
<td>Coed Team and Individual Activities: Weight Training</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6v</td>
<td>Coed Team and Individual Activities: Volleyball</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B32</td>
<td>Shape Up</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B22</td>
<td>Elementary Probability and Statistics -or-</td>
<td>4.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B11</td>
<td>Introduction to General, Organic, and Biochemistry</td>
<td>5.0</td>
</tr>
<tr>
<td>PHYS B2A</td>
<td>General Physics-Mechanics and Heat</td>
<td>4.0</td>
</tr>
<tr>
<td>PHED B36</td>
<td>First Aid and CPR</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 21-24

**Associate in Arts in Music for Transfer**

Students who plan to major in music should plan for the highest possible level of proficiency in music and complete courses in general education for the transfer college of their choice. Elective courses will both enrich the student's background and balance weak areas of knowledge for later academic growth.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6C</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6D</td>
<td>Ordinary Differential Equations</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B6E</td>
<td>Elementary Linear Algebra</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 18

**Performance Ensemble**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC B10A</td>
<td>Concert Band (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B12A</td>
<td>College Orchestra (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B13A</td>
<td>Jazz Ensemble (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B14A</td>
<td>College Choir (4 enrollments of 1.5 units each)</td>
<td>6.0</td>
</tr>
</tbody>
</table>
Total required units: 23-25

**Associate in Science Physics for Transfer**

The goal of the program is to help students better understand the using physical world and the analysis of it through mathematical techniques using qualitative and quantitative reasoning. The coursework prepares students to think critically and apply reasoning skills to analyze real world situations. Students will be able to successfully transfer to any institution of higher learning armed with the foundation needed to pursue a baccalaureate degree in physics and will be prepared for careers as physicists in fields such as research, industry and education. Students will complete comprehensive curriculum to meet degree and transfer needs.

This new degree builds upon the existing degree's emphases in mathematical modeling, reasoning and critical thinking skills. In addition, it will guarantee transfer to a California State University in the physics major (or a similar or equivalent program). Upon completion of the degree, students will be able to:

- apply appropriate physical laws and mathematical techniques to analyze various physical situations;
- perform various scientific experiments and to analyze data to check agreement with theoretical predictions.

**Program Learning Outcomes**

Upon successful completion of this program, students will be able to:

- demonstrate a knowledge of and recognize the processes that explain physical phenomena.
- apply the methodologies of science when approaching a physics problem.
- apply logical quantitative and qualitative reasoning in solving physics problems or analyzing arguments.

The Associate in Science degree in Physics for Transfer is designed to prepare students to begin upper division course work in pursuit of a bachelor's degree (or ultimately a graduate degree) in physics upon transfer to a four-year college or university. Earning this degree should allow the student to become acquainted with the basic knowledge of physics contained in a calculus-based introductory physics sequence and the mathematics that supports that level of competency. The student will demonstrate proficiency in communication, critical thinking, quantitative problem solving, and laboratory science skills. This degree represents a step in a path preparing students for careers in any of the many branches of physics, physics education, and other technical fields, such as some engineering disciplines in which physics is an integral part. To achieve the Physics Associate in Science degree for transfer, the student will need to complete the following courses with at least a 'C' grade in each course. A 'P' (Pass) grade is not acceptable for courses in the major. In order to earn the Physics AS-T, students must complete 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AS-T will be required to complete more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS B4B</td>
<td>Heat, Electricity, Magnetism</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4C</td>
<td>Optics and Modern Physics</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6C</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Total Units for the Major**

24

**Associate in Arts in Political Science for Transfer**

The Associate in Arts in Political Science for Transfer degree is designed for students interested in gaining an understanding of the structure and functions in governments. This degree provides a foundation for further study for students planning to transfer into a baccalaureate program in political science. Successful completion of the Associate in Arts in Political Science for Transfer degree guarantees the student acceptance to a California State University (but not to a particular campus) to pursue a baccalaureate degree in Political Science. This degree may not be the best option for students intending to transfer to a particular CSU campus or a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS B1</td>
<td>American Government: National, State and Local</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS B2</td>
<td>Comparative Government</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS B3</td>
<td>International Politics</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B22</td>
<td>Elementary Probability and Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>5.0</td>
</tr>
</tbody>
</table>

**List B (select two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS B12</td>
<td>Contemporary Issues in California State and Local Government</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS B16</td>
<td>Vital Political Problems</td>
<td>3.0</td>
</tr>
</tbody>
</table>
HIST B4A  European Civilization    3.0
HIST B4B  European Civilization    3.0
HIST B17A  History of the United States    3.0
HIST B17B  History of the United States since 1870    3.0
HIST B18  History of California    3.0
ECON B2  Principles of Economics-Macro    3.0

Total required units: 19-20

**Associate in Arts in Psychology for Transfer**

The Associate in Arts in Psychology for Transfer is intended for those transfer-directed students who plan to complete an Associate of Arts in Psychology because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Psychology for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Psychology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The major in psychology provides a study of the behavior of individuals and groups. The four-year degree in this major contributes to the foundational knowledge for positions in research and teaching, counseling, and working in clinical settings.

**To Achieve the Associate in Arts for Transfer**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Psychology Associate in Arts for Transfer degree.

**To Transfer Coursework**

A minimum of 21 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- Demonstrate an understanding of the major concepts of behavior, theoretical perspectives, empirical findings, and historical trends in psychology.
- Demonstrate an understanding of basic research methods and information competency in obtaining relevant information about the science and profession of psychology.
- Exhibit an awareness of the ethical and professional factors related to the diversity of individuals and groups within the discipline of psychology.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B1a*</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B1b*</td>
<td>Biological Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B5*</td>
<td>Elementary Statistics for the Behavioral and Life Sciences</td>
<td>5.0</td>
</tr>
<tr>
<td>PSYC B6*</td>
<td>Research Methods for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Any two of the following courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B2</td>
<td>Interpersonal and Group Process Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B20*</td>
<td>Social Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B30*</td>
<td>Human Sexuality</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B33*</td>
<td>Psychology of Adjustment</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B40*</td>
<td>Lifespan Psychology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Required Subtotal

CSU General Education or IGETC Pattern:

Transfer Electives (as needed to reach 60 transferable units)

Degree Total

60.0

*Courses with an asterisk can be double counted for General Education. No additional graduation requirements are required to complete this degree.

**Associate in Arts in Sociology for Transfer**

The Associate in Arts in Sociology for Transfer is intended for those transfer-directed students who plan to complete an AA in Sociology because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Sociology for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Sociology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. No additional graduation requirements are required to complete this degree.

Sociology is the study of groups, institutions, social relationships, and social problems in contemporary society. The sociology major prepares the student for careers in law, social work, human services, urban development, law enforcement agencies, public service, counseling, mental health, teaching, and community service. Students will be prepared for a baccalaureate degree in Sociology or a similar degree.

**To Achieve the Associate in Arts for Transfer**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Sociology Associate in Arts for Transfer degree.

**To Transfer Coursework**

A minimum of 19 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate an understanding of the perspectives, theories, methods and core concepts of the social sciences.
- explain the major problems and issues in the disciplines in their contemporary, historical and geographical contexts.
- demonstrate an understanding of and an ability to describe the contributions and perspectives of women, ethnic and other minorities, and Western and non-Western peoples.
The following is required for the completion of all AA-T or AS-T schools, corporations, business entities, and not-for-profits.

The Associate in Arts in Spanish for Transfer degree provides a linguistic study of the language and an in-depth look into the culture of the Spanish-speaking world. The objective of the program is to provide students with opportunities to obtain an AA degree in Spanish, transfer to a four-year college, and achieve their academic and language of art/design.

The Bakersfield College Art Department wishes to expose students to study in a wide variety of media, and to prepare them to make societal contributions by becoming citizens who are visually aesthetic, culturally aware, skilled in creative problem-solving, and aesthetically sensitive.

Program level outcomes - the successful student will be able to:
- demonstrate an understanding of the principles, elements, and language of art/design.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Group A: Any two of the following courses: 7-8 units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B2</td>
<td>Problems of Modern Society</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Life Sciences</td>
<td>5.0</td>
</tr>
<tr>
<td>PSYC B6</td>
<td>Research Methods for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Group B: Select two of the following courses: 6 units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B2B</td>
<td>Introduction to Gender</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B45</td>
<td>Minority Relations</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B1</td>
<td>Introduction to Criminal Justice</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B20</td>
<td>Social Psychology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Group C: Select one course from list C which includes the course below and any course in lists A & B not already used: 2 units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B36</td>
<td>Sociology of the Chicano</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Additional Courses**

Any transferable anthropology or psychology course 3.0

Required Subtotal 19.0

CSU General Education or IGETC Pattern: 39.0

Transfer Electives (as needed to reach 60 transferable units)

Degree Total 60.0

*Courses with an asterisk can be double counted for General Education. No additional graduation requirements are required to complete this degree.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN B1</td>
<td>Elementary Spanish I</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B2</td>
<td>Elementary Spanish II</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B3</td>
<td>Intermediate Spanish I</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B35</td>
<td>Spanish for Heritage Speakers I</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B4</td>
<td>Intermediate Spanish II</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B36</td>
<td>Spanish for the Heritage Speakers II</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Substitution Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B37</td>
<td>Survey of Art – Latin America</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Any course(s) from List A not already used 3-9

**List A (any one of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B24</td>
<td>Latino/a Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30A</td>
<td>Early Chicano History</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30B</td>
<td>History of Chicanos in the Southwest</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B33</td>
<td>Latin American History</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B36</td>
<td>Sociology of the Chicano</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B45</td>
<td>Minority Relations</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 19-21

**Associate of Arts in Studio Arts for Transfer**

The Associate in Arts in Studio Arts for Transfer is intended for those transfer-directed students who plan to complete an AA in Art because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education Breadth or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Studio Arts for Transfer degree will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

**Associate in Arts in Studio Arts for Transfer Program level outcomes - the successful student will be able to:**
- demonstrate an understanding of the principles, elements, and language of art/design.

Departmental placement evaluation determines the course level where individual students begin the core courses. Credit or placement equivalent to two years of college level Spanish is required. If a student places out of any course and is not awarded units for that course, the student will need additional coursework to reach at least 19 total units in the major. Due to differences in unit values, it may be necessary to substitute two 3 unit courses for each 4 unit required core course not taken.
• demonstrate the ability to critique their own work, as well as the work of other students; and defend their creative choices verbally.
• demonstrate an understanding of a portfolio or “body of work”

To Achieve the Associate of Arts Degree for Transfer
Upon completion of the following courses with at least a ‘C’ grade in
each course, the student will be awarded a Studio Arts Associate of
Arts Degree for Transfer:

Required Core - 12 Units
Course Number Title Units
ART B36 Survey of Western Art II* 3.0
ART B4 Two Dimensional Design* 3.0
ART B5 Three Dimensional Design 3.0
ART B2 Drawing I* 3.0

List A - Choose 3 Units
Course Number Title Units
ART B35 Survey of Western Art I* 3.0
ART B37 Survey of Art – Latin America* 3.0

List B - Curricular Areas - Choose 9 Units**
Course Number Title Units
ART B8 Figure Drawing I 3.0
ART B6 Acrylic Painting I 3.0
ART B10 Ceramics I 3.0
ART B13 Sculpture I 3.0
ART B20 Digital Art I – Vector Art 3.0
ART B17 Black & White Photography 3.0

**A student can choose any other “Local studio course” or “Second Semester course” to complete the 9 unit “Curricular” requirement:

Local Studio Courses
Course Number Title Units
ART B16 Digital Photography 3.0
ART B24 Digital Art II - Raster Art 3.0
ART B25 Typography 3.0
ART B42 Graphic Design 3.0

Second Semester Courses
Course Number Title Units
ART B9 Figure Drawing II 3.0
AR B11 Ceramics II 3.0

Units in Major 24.0
CSU GE Breadth 39.0
Possible double counting of GE’s 12.0
Degree Total 60.0
*Courses with an asterisk can be double counted for General Education

No additional local requirements for this degree will be
imposed.

Associate in Arts in Theatre Arts for Transfer
The Associate in Arts in Theatre Arts for Transfer Degree (AA-T in
Theatre Arts) is designed to provide students a clear transfer
pathway to CSU campuses that offer bachelor’s degrees in Theatre
Arts. Ed Code Section 66746-66749 states that students earning
the Associate in Arts in Theatre Arts for Transfer Degree (AA-T in
Theatre Arts) will be granted priority for admission as a Theatre
major to a local CSU, as determined by the CSU campus to which
the student applies. This degree requires students to complete 60

CSU transferable units including completion of CSU or IGETC and
18 units in the major with a cumulative GPA of 2.0 or better. Title
5 requires that students earn a grade of ‘C’ or better in all major
coursework. This degree provides students with an understanding
and an appreciation for the art of theatre and includes courses in
acting, technical theatre, rehearsal and performance as well as an
introduction to the theatre and play analysis. Completion of this
curriculum will provide preparation for future theatre studies.
The Associate in Arts in Theatre Arts for Transfer Degree (AA-T in
Theatre Arts) requires 18 units of which 9 units are in required core
courses. An additional 9 units are in restricted electives from the
categories below as indicated.

The following is required for the completion of all AA-T or AS-T
degrees:
1. The completion of 60 semester units that are eligible for
transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer
     Curriculum (IGETC) or the California State University –
     Breadth Requirements.
   • A minimum of 18 semester units in a major area of
     emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a
   ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in
   the major.

Required Core Courses
Course Number Title Units
THEA B20 Introduction to Theatre 3.0
- and -
THEA B1 Introduction to Acting 3.0
- and -
THEA B27 Acting Theatre Laboratory 1.3
- or -
THEA B28 Technical Theatre Laboratory 1.0
- or -

List A (any three of the following courses)
Course Number Title Units
THEA B2A Elements of Acting 3.0
- and -
THEA B2B Elements of Acting 3.0
- or -
THEA B14 Introduction to Stage Costume 3.0
- or -
THEA B16 Stagecraft 3.0
- or -
THEA B27 Acting Theatre Laboratory 1.3
- or -
THEA B28 Technical Theatre Laboratory 1.0
- or -

Total required units: 18

Administration of Justice
Associate in Science in Administration of Justice
for Transfer
The Associate in Science in Administration of Justice for Transfer
degree (AS-T in Administration of Justice) is intended to prepare
students to transfer to CSU campuses that offer bachelor’s degrees in
Administration of Justice or Criminal Justice. Students who complete
this degree will receive “priority admission with junior status to the
California State University system”. This degree requires students to
complete 60 CSU transferable units including completion of CSU GE or IGETC and 18-20 units in the major with a cumulative GPA of 2.0 or better. Title 5 requires that students earn a grade of ‘C’ or better in all major coursework. A ‘P’ (Pass) grade is not acceptable for courses in the major. There are no additional graduation requirements.

Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM B1</td>
<td>Introduction to Criminal Justice</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B2</td>
<td>Criminal Law</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM B3</td>
<td>Introduction to Evidence</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B4</td>
<td>Constitutional Criminal Procedure</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B5</td>
<td>Community Relations</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B8</td>
<td>Criminal Investigation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B9</td>
<td>Juvenile Justice System</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B12</td>
<td>Forensic and Scientific Aspects of Evidence</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B21</td>
<td>Introduction to Correctional Administration</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List B (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>5.0</td>
</tr>
<tr>
<td>PSYC B1A</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Total Required Units** 18-20

### Agriculture

* **Agriculture Business Management Certificate of Achievement**

  **To Achieve the Certificate of Achievement**

  Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Agriculture Business Management Certificate of Achievement.

  **To Transfer Coursework**

  A minimum of 26 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

  **Program Learning Outcomes**

  Upon successful completion, the student will:

  - understand economic concepts and quantitative methods.
  - demonstrate critical, integrative, and evaluative thinking.
  - have well-developed verbal and written communication skills that are necessary for efficient and clear dissemination of economic analysis, as well as for success in private and public sector careers.
  - understand and interpret economic news and trends using economic theory and apply them to agricultural operations for employment that will enhance opportunities and success in agriculture business in the 21st century.
  - demonstrate specific skills in agriculture business.
  - have an understanding of the business and economics of the agricultural industry, agricultural business, and the implications to the agricultural producer, consumer, and the food system.
  - have an understanding of management principles encountered in the day to day operation of an agricultural enterprise.
  - understand the production and marketing disciplines needed for employment.

  **Total Units: 26**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B1</td>
<td>Principles of Crop Production</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>AGBS B6</td>
<td>Agricultural Sales and Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Cooperative Work Experience Education</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B2</td>
<td>Forage Crops</td>
<td>3.0</td>
</tr>
<tr>
<td>NRES B1</td>
<td>Range Management</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B1</td>
<td>Introduction to Animal Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B2</td>
<td>Beef Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B4</td>
<td>Dairy Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B10</td>
<td>Horse Production</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B2</td>
<td>Natural Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B1</td>
<td>Introduction to Forestry</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B3</td>
<td>Wildlife Management</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B5</td>
<td>Identification of California Wildlife</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B6</td>
<td>Forestry Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
</tr>
</tbody>
</table>

### Agriculture Business Management Associate in Arts

* **To Achieve the Associate in Arts**

  Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Agriculture Business Management Associate in Arts.

  **To Transfer Coursework**

  A minimum of 20 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

  **About the Agriculture Business Management Major**

  The Agriculture Business Management major is made up of agriculture and agricultural business courses pertaining to the industry.

  Many jobs in agriculture require training in business courses such as accounting, computers and salesmanship. Career opportunities include farm management, accounting, marketing of agricultural products, sales and services. The Agriculture Business Management Associate in Arts degree is recommended for students planning to transfer to a four-year college.
Upon successful completion, the student will:

- demonstrate in exams or work samples the ability to explain microeconomic and macroeconomic, analyze and evaluate agribusiness problems and management decisions, and perform basic algebra and introductory calculus operations in the context of applied economic analysis and optimization.
- demonstrate skills in fundamental agribusiness principles and analysis techniques into logical decision-making constructs.
- develop strong communication skills, both oral and written, for the purpose of conveying the results of business analyses in a clear, persuasive, and informative manner.
- learn to apply the concepts, principles, and terminology of business (economics, management, finance, marketing, and others) to real-world issues and opportunities in the agricultural and life sciences industries.
- demonstrate specific skills in agriculture business, such as record keeping, marketing, and problem solving.

**Total Units: 20**

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>AGBS B6</td>
<td>Agricultural Sales and Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B1</td>
<td>Principles of Crop Production</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B1</td>
<td>Introduction to Forestry</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B1</td>
<td>Introduction to Animal Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B1</td>
<td>Introduction to Ornamental Horticulture</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
</tr>
</tbody>
</table>

### Agriculture Business Management Associate in Science

**To Achieve the Associate in Science**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Agriculture Business Management Associate in Science.

To Transfer Coursework

A minimum of 32 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- master skills in agriculture business such as statistical methods to analyze commodity markets and economic data, explain how external forces such as law, environmental regulation, and government policies impact agribusiness decision making.
- demonstrate specific skills in agriculture business.
- have an understanding of the business and economics of the agricultural industry; agriculture business and the implications to the agricultural producer, consumer, and the food system; management principles encountered in the day to day operation of an agricultural enterprise.

- understand production and marketing as needed for employment.
- demonstrate managerial and leadership abilities such as public speaking skills and record keeping abilities in the field of agriculture business; understand and interpret economic news and trends using economic theory and apply them to agricultural operations for employment that will enhance opportunities and success in agriculture business in the 21st century.

**Total Units: 32**

### Animal Science Certificate of Achievement

Certificate prepares students for entry level employment in food animal production and animal management and care. This program prepares students for careers in Animal Science and entry level production jobs such as feed mill technician, beef technician, swine technician, poultry technician, animal groomer, small animal assistant technician, and pet store employee.

To Transfer Coursework

A minimum of 30 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:
• identify and implement sustainable livestock management practices that will improve livestock quality, provide efficacious management, protect the natural resources, and ensure economic viability of the livestock industry.
• demonstrate specific skills in animal science such as production, genetics, and nutrition within the animal science discipline needed for employment.
• demonstrate a working knowledge of animal production life cycles to develop a ranch management calendar that incorporates scientifically based management decisions and the latest technological advances in livestock husbandry.
• identify and evaluate livestock anatomy and physiology and relate form to function.

Total Units: 30

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B1</td>
<td>Introduction to Animal Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Select 22 units from the following

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC B2</td>
<td>Beef Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B3</td>
<td>Sheep Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B4</td>
<td>Dairy Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B6</td>
<td>Applied Animal Nutrition</td>
<td>4.0</td>
</tr>
<tr>
<td>ANSC B7</td>
<td>Animal Diseases</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B10</td>
<td>Horse Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B11</td>
<td>Livestock Selection and Evaluation</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B22</td>
<td>Animals and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B83</td>
<td>Introduction to Veterinary Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>ANSC B84</td>
<td>Small Animal Diseases</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B86</td>
<td>Pharmacology for Veterinary Technician</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B88</td>
<td>Surgery, Dental and Anesthesiology for Veterinary Technicians</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B90</td>
<td>Emergency Medicine, Surgery/Nursing</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B92</td>
<td>Clinical Pathology for Veterinary Technicians</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B94</td>
<td>Caged Birds, Laboratory, and Exotic Animal Medicine</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B96</td>
<td>Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology</td>
<td>1.5</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Animal Science Associate in Arts**

The Animal Science major prepares students for occupations in those areas of agriculture involving production, managing, and marketing of livestock. Both the scientific and practical aspects of the production of horse, beef, sheep, swine, dairy cattle, poultry, and companion animals are stressed in the courses.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Animal Science Associate in Arts.

To Transfer Coursework
A minimum of 23 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:
• be able to identify animal contributions to human needs, demonstrate and understand animal behavior, and identify life cycles and biotechnological principles of animal production.
• demonstrate specific skills in animal science such as production, genetics, and nutrition within the animal science discipline needed for employment.
• demonstrate appropriate husbandry best practices to animals of economic value.
• develop problem solving skills for lifetime learning.
• understand the scientific method and design of experiments to test hypotheses and as such, experience the process of discovery.
• demonstrate problem solving and critical thinking skills, skills to make oral presentations, and fundamental knowledge in production and management.

Total Units: 23

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B1</td>
<td>Introduction to Animal Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B2</td>
<td>Beef Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B3</td>
<td>Sheep Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B4</td>
<td>Dairy Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B6</td>
<td>Applied Animal Nutrition</td>
<td>4.0</td>
</tr>
<tr>
<td>ANSC B7</td>
<td>Animal Diseases</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B10</td>
<td>Horse Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B11</td>
<td>Livestock Selection and Evaluation</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B22</td>
<td>Animals and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B83</td>
<td>Introduction to Veterinary Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>ANSC B84</td>
<td>Small Animal Diseases</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B86</td>
<td>Pharmacology for Veterinary Technician</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B88</td>
<td>Surgery, Dental and Anesthesiology for Veterinary Technicians</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B90</td>
<td>Emergency Medicine, Surgery/Nursing</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B92</td>
<td>Clinical Pathology for Veterinary Technicians</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B94</td>
<td>Caged Birds, Laboratory, and Exotic Animal Medicine</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B96</td>
<td>Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology</td>
<td>1.5</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Animal Science Associate in Science**

The Animal Science major prepares students for occupations in those areas of agriculture that involve livestock production and related agribusinesses. Both the scientific and practical aspects of the production of horse, beef, sheep, swine, dairy cattle, poultry, and companion animals are the focus of courses. Career opportunities in Animal Science include livestock production, feeds industry sales, veterinary assistant, pharmaceutical sales, ranch/farm management, pet care and retail sales.

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Animal Science Associate in Science.

To Transfer Coursework
A minimum of 26 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.
Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate AI procedures, proper record keeping in the field of animal science, and skills in day to day animal production such as proper care, feeding, and reproduction.
- be able to practice proper basic principles of animal safety, evaluate performance such as growth and feed conservation.
- demonstrate specific skills in animal science such as production, genetics, and nutrition within the animal science discipline needed for employment.
- identify conformation qualities in cattle, sheep, and swine.

Total Units: 29

Environmental Horticulture Associate in Arts

The Environmental Horticulture Associate in Arts degree is designed for the student planning to transfer to a four-year college or university. Career opportunities include the horticulture business, retail and wholesale nursery, landscape design, and the floral industry.

To Achieve the Associate in Arts

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Environmental Horticulture Certificate of Achievement.

To Transfer Coursework

A minimum of 29 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate managerial and leadership abilities in environmental horticulture classes for employment that will enhance opportunities and success in the horticulture industry in the 21st century.
- master academic proficiency and demonstrate specific skills within environmental horticulture disciplines needed for employment.
- be able to identify regional trees and plants and their use in the landscape.

Total Units: 26

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B1</td>
<td>Introduction to Animal Science</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Select 6 units from the following

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC B2</td>
<td>Beef Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B3</td>
<td>Sheep Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B4</td>
<td>Dairy Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B10</td>
<td>Horse Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B5</td>
<td>Swine Production</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Select 6 units from the following

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC B6</td>
<td>Applied Animal Nutrition</td>
<td>4.0</td>
</tr>
<tr>
<td>ANSC B7</td>
<td>Animal Diseases</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B11</td>
<td>Livestock Selection &amp; Evaluation</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B83</td>
<td>Introduction to Veterinary Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>ANSC B84</td>
<td>Small Animal Diseases</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B15</td>
<td>Large Animal Diseases</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B6</td>
<td>Pharmacology for Veterinary Technicians</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B88</td>
<td>Surgery, Dental and Anesthesiology for Veterinary Technicians</td>
<td></td>
</tr>
<tr>
<td>ANSC B90</td>
<td>Emergency Medicine, Surgery/Nursing</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B92</td>
<td>Clinical Pathology for Veterinary Technicians</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B94</td>
<td>Caged Birds, Laboratory, and Exotic Animal Medicine</td>
<td></td>
</tr>
<tr>
<td>ANSC B96</td>
<td>Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology</td>
<td></td>
</tr>
<tr>
<td>NRES B1</td>
<td>Range Management</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Environmental Horticulture Certificate of Achievement

The Environmental Horticulture Certificate of Achievement is designed for the student desiring specialized training in order to enter the workforce in the least amount of time.

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Environmental Horticulture Certificate of Achievement.

To Transfer Coursework

A minimum of 21 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate managerial and leadership abilities in environmental horticulture classes for employment that will enhance opportunities and success in the horticulture industry in the 21st century.
- master academic proficiency and demonstrate specific skills within environmental horticulture disciplines needed for employment.
- master skills needed for baccalaureate level education or obtain a certificate.

Total Units: 21

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Environmental Horticulture Associate in Science

The Environmental Horticulture Associate in Science degree is designed for the student desiring to enter the workforce after earning a two-year degree.

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Environmental Horticulture Associate in Science.

To Transfer Coursework
A minimum of 33 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in environmental horticulture classes for employment that will enhance opportunities and success in the horticulture industry in the 21st century.
- master academic proficiency and demonstrate specific skills within environmental horticulture disciplines needed for employment.
- master skills needed for baccalaureate level education or obtain a certificate.

Total Units: 33

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B10</td>
<td>Plant Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>ORNH B1</td>
<td>Introduction to Ornamental Horticulture</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B2</td>
<td>Fundamentals of Nursery Management and Plant Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B3</td>
<td>Landscape Installation and Maintenance</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B4</td>
<td>Plant Propagation</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B6</td>
<td>Ornamental Plant Identification - Ground Covers, Vines, and Dwarf Shrubs</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B7</td>
<td>Ornamental Plant Identification - Large Shrubs, Small Trees, Large Trees &amp; Palms</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B8</td>
<td>Introduction to Landscape Design</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Select 12 units from the following

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B1</td>
<td>Introduction to Forestry</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B2</td>
<td>Natural Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B6</td>
<td>Forestry Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>1.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
</tr>
<tr>
<td>FORE B3</td>
<td>Wildlife Management</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B4</td>
<td>Wildlife Law Enforcement</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B5</td>
<td>Identification of California Wildlife</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B7</td>
<td>Wildland Fire Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B10</td>
<td>Plant Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>NRES B1</td>
<td>Range Management</td>
<td>3.0</td>
</tr>
<tr>
<td>NRES B2</td>
<td>Parks and Outdoor Recreation</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL B11</td>
<td>Concepts of Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Forestry Associate in Arts

The program provides a broad general experience in the arts and science to develop an individual with a well-rounded education, and a core of basic courses which furnish the student with a perspective of the scientific and professional area of forestry, natural resources, fisheries and wildlife. The pre-forestry, resource conservation and wildlife management program at Bakersfield College should conform to the recommended program as prescribed by the school to which the student wishes to transfer. Students planning to go to work after completing a two-year degree should complete the Associate in Science degree and not the Associate in Arts degree. Career opportunities include forestry, fishing industries and wildlife management.
**To Achieve the Associate in Arts**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Forestry Associate in Arts.

**To Transfer Coursework**

A minimum of 24 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in agriculture classes for employment that will enhance opportunities and success in the agriculture industry in the 21st century.
- master skills needed for baccalaureate level education or obtain a certificate.
- demonstrate specific skills within agriculture disciplines needed for employment

**Total Units: 24**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B2</td>
<td>Natural Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B6</td>
<td>Forestry Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B1</td>
<td>Introduction to Forestry</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B3</td>
<td>Wildlife Management</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B4</td>
<td>Wildlife Law Enforcement</td>
<td></td>
</tr>
<tr>
<td>FORE B5</td>
<td>Identification of California Wildlife</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B7</td>
<td>Wildland Fire Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td></td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>1.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Select 7 units from the following**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORE B3</td>
<td>Wildlife Management</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B4</td>
<td>Wildlife Law Enforcement</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B5</td>
<td>Identification of California Wildlife</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B7</td>
<td>Wildland Fire Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B10</td>
<td>Plant Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>NRES B1</td>
<td>Range Management</td>
<td>3.0</td>
</tr>
<tr>
<td>NRES B2</td>
<td>Parks and outdoor Recreation</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL B11</td>
<td>Concepts of Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td></td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Forestry Associate in Science**

The program provides a broad general experience in the arts and science to develop an individual with a well-rounded education, and a core of basic courses which furnish the student with a perspective of the scientific and professional area of forestry, natural resources, fisheries and wildlife. The pre-forestry, resource conservation and wildlife management program at Bakersfield College should conform to the recommended program as prescribed by the school to which the student wishes to transfer. Students planning to go to work after completing a two-year degree should complete the Associate in Science degree. Career opportunities include forestry, fishing industries and wildlife management.

**To Achieve the Associate in Science**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Forestry Associate in Science.

**To Transfer Coursework**

A minimum of 31 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in agriculture classes for employment that will enhance opportunities and success in the agriculture industry in the 21st century.
- master skills needed for baccalaureate level education or obtain a certificate.
- demonstrate specific skills within agriculture disciplines needed for employment

**Total Units: 31**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B1</td>
<td>Introduction to Forestry</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B2</td>
<td>Natural Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B6</td>
<td>Forestry Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>1.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Select 7 units from the following**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORE B3</td>
<td>Wildlife Management</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B4</td>
<td>Wildlife Law Enforcement</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B5</td>
<td>Identification of California Wildlife</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B7</td>
<td>Wildland Fire Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B10</td>
<td>Plant Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>NRES B1</td>
<td>Range Management</td>
<td>3.0</td>
</tr>
<tr>
<td>NRES B2</td>
<td>Parks and outdoor Recreation</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL B11</td>
<td>Concepts of Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td></td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Plant Science Certificate of Achievement**

This program provides instruction in the planting, growing, harvesting, and marketing of field, forage, and vegetable crops as well as irrigated and range pasture crops. Career opportunities in crop science include farm labor foreman, irrigation manager, seed lab technician, research technician, soils lab and pest control technician.

**To Achieve the Certificate of Achievement**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Plant Science Certificate of Achievement.
Upon successful completion, the student will:

- demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
- master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.

Total Units: 24

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B4</td>
<td>Plant Propagation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B1</td>
<td>Principles of Crop Production</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B2</td>
<td>Forage Crops</td>
<td>3.0</td>
</tr>
<tr>
<td>NRES B1</td>
<td>Range Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B4</td>
<td>Vegetable Production</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Plant Science - Crops Emphasis Associate in Arts**

This program provides instruction in the planting, growing, harvesting, and marketing of field, forage, and vegetable crops as well as irrigated and range pasture crops. See also Environmental Horticulture. Career opportunities in Crop Science include truck and market farm management, orchard and vineyard management, horticulture pest control, low volume irrigation equipment supply and sales, and agricultural research technician.

To Achieve the Associate in Arts

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Plant Science Associate in Arts.

To Transfer Coursework

A minimum of 28 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
- master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.
- master skills needed for baccalaureate level education or obtain a certificate

Total Units: 28

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B4</td>
<td>Plant Propagation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B1</td>
<td>Principles of Crop Production</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B2</td>
<td>Forage Crops</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B4</td>
<td>Vegetable Production</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Plant Science - Horticulture Emphasis Associate in Arts**

This program provides instruction in the planting, growing, harvesting, and marketing of field, forage, and vegetable crops as well as irrigated and range pasture crops. See also Environmental Horticulture. Career opportunities in Crop Science include truck and market farm management, orchard and vineyard management, horticulture pest control, low volume irrigation equipment supply and sales, and agricultural research technician.

To Achieve the Associate in Arts

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Plant Science Associate in Arts.

To Transfer Coursework

A minimum of 25 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
- master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.
- master skills needed for baccalaureate level education or obtain a certificate

Total Units: 25

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
</tbody>
</table>
To Achieve the Associate in Arts
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Plant Science Associate in Arts.

To Transfer Coursework
A minimum of 25 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
- master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.
- master skills needed for baccalaureate level education or obtain a certificate

Total Units: 25

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B10</td>
<td>Plant Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>ORNH B4</td>
<td>Plant Propagation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Select six units from the following

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORNH B2</td>
<td>Fundamentals of Nursery Management and Plant Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B3</td>
<td>Landscape Installation and Maintenance</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B6</td>
<td>Ornamental Plant Identification-Ground Covers, Vines, and Dwarf Shrubs</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B7</td>
<td>Ornamental Plant Identification- Large Shrubs, Small Trees, Large Trees and Palms</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Plant Science - Horticulture Emphasis Associate in Science
This program provides instruction in the planting, growing, harvesting, and marketing of field, forage, and vegetable crops as well as irrigated and range pasture crops. See also Environmental Horticulture. Career opportunities in Crop Science include farm management, agricultural pest control, fertilizer sales and application, soil laboratory technician, irrigation equipment supply and sales, and agricultural research technician.

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Plant Science Associate in Science.

To Transfer Coursework
A minimum of 28 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
- master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.
- master skills needed for baccalaureate level education or obtain a certificate

Total Units: 28

Pre-Veterinary Medicine Option
Students are referred to UC Davis School of Veterinary Medicine (www.vetmed.ucdavis.edu/students) and Western University School of Health Sciences, College of Veterinary Medicine (prospective. westernu.edu/veterinary/welcome-17) for the most current program information.

Registered Veterinary Technician Job Skills Certificate
This certificate prepares students for the California Veterinary Medical Board RVT Licensing Exam. Students must also complete the CVMB required clinic hours by working in a veterinary hospital/clinic. Course eligibility expires five years from the time it is completed for the state exam. Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Registered Veterinary Technicians Job Skills Certificate. Students who do not choose to become licensed RVT’s are still able to work in the field as Animal Health Technicians. Career opportunities include Veterinary Technician/Assistant, supply distributor/representative, retail/wholesale sales, and pet groomer.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Registered Veterinary Technician Job Skills Certificate.

To Transfer Coursework
A minimum of 17.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate proficiency in animal care procedures and skills required for employment and enhancement of opportunities and success in the veterinary/pet care industry.
• master academic proficiency in veterinary medicine needed to obtain a job skills certificate.
• improve program graduate success rates for passing California Veterinary Medical Board licensing exam.

Total Units: 17.5

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC B83</td>
<td>Introduction to Veterinary Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>ANSC B84</td>
<td>Small Animal Diseases</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B85</td>
<td>Large Animal Diseases</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B86</td>
<td>Pharmacology for Veterinary Technicians</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B88</td>
<td>Surgery, Dental and Anesthesiology for</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Veterinary Technicians</td>
<td></td>
</tr>
<tr>
<td>ANSC B90</td>
<td>Emergency Medicine, Surgery/Nursing</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B92</td>
<td>Clinical Pathology for Veterinary Technicians</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B94</td>
<td>Caged Birds, Laboratory, and Exotic Animal Medicine</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B96</td>
<td>Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Other Suggested Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL B1</td>
<td>American Sign Language 1</td>
<td>4.0</td>
</tr>
<tr>
<td>ASL B2</td>
<td>American Sign Language 2</td>
<td>4.0</td>
</tr>
<tr>
<td>ASL B3</td>
<td>American Sign Language 3</td>
<td>4.0</td>
</tr>
<tr>
<td>ASL B4</td>
<td>American Sign Language 4</td>
<td>4.0</td>
</tr>
</tbody>
</table>

American Sign Language

American Sign Language Associate in Arts

The major in American Sign Language provides a linguistic and grammatical study of the language and an in-depth look into the culture of deaf people. The objective of the program is to provide students with a foundation for achieving fluency and the opportunity to transfer to a four-year institution. With additional training, employment opportunities include interpreting, teaching and social service. If transferring to an institution other than UC or CSU, students should check with the receiving institution to ensure transferability of ASL courses as foreign language credit.

To Achieve the Associate in Arts

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an American Sign Language Associate in Arts.

To Transfer Coursework

A minimum of 20 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Level Outcomes

Upon successful completion, the student will:

• demonstrate the ability to use and recognize specific language elements in the use of a language.
• demonstrate an understanding of, and an ability to describe, the ways in which foreign languages reflect historical and cultural contexts.
• transmit a comprehensive knowledge of the cultural heritage being studied.
• differentiate and analyze an understanding of the diversity of human expression.

Total Units: 20

Anthropology

Anthropology

Associate of Arts Degree for Transfer

The Associate of Arts in Anthropology Degree for Transfer is designed to provide students a clear pathway to the CSU anthropology major and completion of the anthropology baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

• demonstrate an understanding of the biocultural nature of humanity through application of the core concepts, methods, and theories, in cultural anthropology, biological anthropology, and archaeology to explanations of human diversity.
• describe the origins and history of the discipline of American anthropology; its unique perspectives and approaches to the study of humanity; its ethical challenges; its dual nature as the humanistic/scientific study of humanity; and its uses and value in today’s world.
• critically evaluate information about human societies and origins without reliance on taken-for-granted assumptions, using a combination of skills, including the scientific method, qualitative social analysis, and reflective writing.

Anthropology is the scientific study of humanity, examining human biology and culture today and in the past; and biological and cultural change through time. Students with an Anthropology major concentrate in one of the following areas: cultural anthropology, linguistic anthropology, biological/physical anthropology or archaeology. The major in anthropology prepares students for a variety of research/academic positions (e.g. museums, colleges and universities, zoos); and non-academic/research positions (e.g. in business, medicine, cultural resource management, government and NGO’s). The objective of this program is to prepare students for transfer to a four-year university. Anthropology’s emphasis on research skills, organizational skills, critical thinking, technical writing, project management and use of a holistic perspective make it an excellent undergraduate major for a variety of fields and graduate programs.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
- A minimum of 18 semester units in a major area of emphasis, as determined by the Kern Community College District Board of Trustees.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a 'C' or better. 'P' (Pass) grade is not acceptable for courses in the major.

**Required Core - 9 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH B1</td>
<td>Physical Anthropology</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH B2</td>
<td>Introduction to Cultural Anthropology</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH B3</td>
<td>Introduction to Anthropology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A - Select at least one, 3-5 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH B5</td>
<td>North American Indians</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for Behavioral and Social Sciences</td>
<td>5.0</td>
</tr>
</tbody>
</table>

**List B - Select at least one, 4 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B6</td>
<td>Research Methods for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>GEOL B10</td>
<td>Introduction to Geology</td>
<td>3.0</td>
</tr>
<tr>
<td>GEOL B10L</td>
<td>Introduction to Geology Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>ERSC B10</td>
<td>Introduction to Earth Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ERSC B10L</td>
<td>Introduction to Earth Science</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**List C - Select at least one, 3 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B1</td>
<td>Art Appreciation</td>
<td>3.0</td>
</tr>
<tr>
<td>GEOG B2</td>
<td>Human Geography</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B24</td>
<td>A Survey of World Music</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL B37</td>
<td>Introduction to World Religions</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Units in Major**

19-21

**Apprenticeship**

Apprenticeship courses are designed for indentured apprentices under the Shelley-Maloney California Apprenticeship Standards Act. The Apprentice Agreement states that the student will supplement on-the-job training with related classroom instruction during each year of apprenticeship.

Apprentice classes meet three to eight hours per week and yield two to six units of credit. Joint Apprenticeship Committees administering each program are composed of representation from labor, management, California State Division of Apprenticeship Standards, and Bakersfield College. These committees adopt state approved standards for operation and assure equal opportunity for applicants. Related training in apprenticeable occupations, in addition to those listed below, may be offered as the need arises.

Information for entry into apprenticeship programs may be obtained from the college coordinator of apprenticeship training. Interested persons are encouraged to apply for any of these programs and may contact the Bakersfield College Apprenticeship Department at 661/395-4408 for further information.

**Program Learning Outcomes**

Upon successful completion, the student will:

- successfully transition to the Journeyman level designation and certification, upon successful completion of requirements by the California Division of Apprenticeship Standards.
- demonstrate measures used by trades in use of tools, techniques, hands-on skills, and competencies for practices in specific occupations.
- identify and use equipment of specific trade in meeting standards for measurement and calibration.
- read, and apply specific trade instructions and design for construction or production outcomes as required by the specific trade practices and standards.

**Apprenticeship Associate in Arts**

Effective Fall 2009 all courses used for meeting the requirements for degrees must be completed with a grade of 'C' or better.

<table>
<thead>
<tr>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apprenticeship classes for duration of apprentice period</td>
<td>12-45 (45 units maximum)</td>
</tr>
<tr>
<td>Work Experience</td>
<td>4-16</td>
</tr>
<tr>
<td>Related technical subjects as recommended by JAC</td>
<td>0-6</td>
</tr>
</tbody>
</table>

In addition, students must comply with the requirements as shown in the catalog under Graduation Requirements. The departmental counselor can assist the student in planning for the A.A. degree.

**Apprenticeship Certificate of Achievement**

<table>
<thead>
<tr>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apprenticeship classes for duration of apprentice period</td>
<td>12-45</td>
</tr>
<tr>
<td>Work Experience</td>
<td>16</td>
</tr>
</tbody>
</table>

**Architecture**

**Architectural Computer Aided Drafting Job Skills Certificate**

This certificate covers the principles of architectural computer aided drafting to include basic 2D and 3D AutoCAD application as well as BIM related software covering architectural practices including both residential and light commercial working documents. Emphasis is also placed on architectural delineation using software.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Architectural CAD Job Skills Certificate.

**To Transfer Coursework**

A minimum of 11 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.
**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.
- demonstrate problem solving skills used in industrial design and product development.

**Total Units: 11**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDR B20a</td>
<td>Computer Aided Drafting &amp; Design CAD</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B16</td>
<td>Digital Tools for Graphics Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B33</td>
<td>Architectural Computer Practice</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Architectural Drafting Associate in Arts**

This degree covers the principles of architectural CAD to include basic 2D and 3D AutoCAD application as well as BIM related software covering architectural practices including both residential and light commercial working documents. Emphasis is also placed on architectural delineation using software.

**To Achieve the Associate in Arts**

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Architectural Drafting Associate in Arts.

**To Transfer Coursework**

A minimum of 27.5 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.
- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.

**Total Units: 27.5**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH B1</td>
<td>Introduction to Architecture and Environmental Design</td>
<td>1.5</td>
</tr>
<tr>
<td>ARCH B6</td>
<td>Materials of Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B11</td>
<td>Design and Perspective Drawing</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B12</td>
<td>Design Drawing and Color</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B16</td>
<td>Digital Tools for Graphics Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B21</td>
<td>Architectural Design Fundamentals I</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B22</td>
<td>Architectural Design Fundamentals II</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B30</td>
<td>Residential Building Information Modeling</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B33</td>
<td>Architectural Computer Practice</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Art**

**Studio Arts Associate of Arts Degree for Transfer**

The Associate in Arts in Studio Arts for Transfer is intended for those transfer-directed students who plan to complete an AA in Art because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education Breadth or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Studio Arts for Transfer degree will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part...
of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The Bakersfield College Art Department wishes to expose students to study in a wide variety of media, and to prepare them to make societal contributions by becoming citizens who are visually literate, culturally aware, skilled in creative problem-solving, and aesthetically sensitive.

Program level outcomes - the successful student will be able to:

- demonstrate an understanding of the principles, elements, and language of art/design.
- demonstrate the ability to critique their own work, as well as the work of other students; and defend their creative choices verbally.
- demonstrate an understanding of a portfolio or "body of work."

To Achieve the Associate of Arts Degree for Transfer
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Studio Arts Associate of Arts Degree for Transfer.

Required Core - 12 Units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B36</td>
<td>Survey of Western Art II*</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B4</td>
<td>Two Dimensional Design*</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B5</td>
<td>Three Dimensional Design</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B2</td>
<td>Drawing I *</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List A - Choose 3 Units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B35</td>
<td>Survey of Western Art I*</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B37</td>
<td>Survey of Art – Latin America*</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List B - Curricular Areas - Choose 9 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B8</td>
<td>Figure Drawing I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B6</td>
<td>Acrylic Painting I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B10</td>
<td>Ceramics I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B13</td>
<td>Sculpture I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B20</td>
<td>Digital Art I – Vector Art</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B17</td>
<td>Black &amp; White Photography</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**A student can choose any other “Local studio course” or “Second Semester course” to complete the 9 unit “Curricular” requirement:

Local Studio Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B16</td>
<td>Digital Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B24</td>
<td>Digital Art II - Raster Art</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B25</td>
<td>Typography</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B42</td>
<td>Graphic Design</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Second Semester Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B9</td>
<td>Figure Drawing II</td>
<td>3.0</td>
</tr>
<tr>
<td>AR B11</td>
<td>Ceramics II</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Category

Units in Major 24.0
CSU GE Breadth 39.0
Possible double counting of GE's 12.0
Degree Total 60.0

*Courses with an asterisk can be double counted for General Education
No additional local requirements for this degree will be imposed.

Automotive
Auto Brakes and Wheel Alignment Certificate of Achievement
This program develops student’s knowledge and skills in automotive brake and suspension systems operation, trouble-shooting, maintenance, repair; and wheel alignment procedures.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Auto Brakes and Wheel Alignment Certificate of Achievement.

To Transfer Coursework
A minimum of 24 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.
- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.

Total Units: 24

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B106</td>
<td>Auto Brakes/Suspension/Alignment</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B64</td>
<td>Automotive Electricity and Electronics</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B14</td>
<td>Auto Tune-Up: Electrical/Ignition/Accessories</td>
<td>11.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**-or equivalent-

Electives — For a total of at least 24 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B61</td>
<td>Basic &amp; Enhanced Area Clean Air Car Course</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B2a</td>
<td>Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B75a</td>
<td>Introduction to Engine Overhaul</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B75b</td>
<td>Engine Repair Techniques</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B1a</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1b</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>INDT B275</td>
<td>Special Problems in Automotive Technology</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Auto Engine Overhaul Certificate of Achievement

This program develops student’s knowledge and skills in the areas of automotive and light truck engine overhaul and machining procedures. Program includes instruction in theory of operation, diagnostic, and repair procedures.
To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Auto Engine Overhaul Certificate of Achievement.

To Transfer Coursework
A minimum of 23 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.

Total Units: 23-24

Required Courses — Day Students

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B2a</td>
<td>Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B2b</td>
<td>Advanced Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Required Courses — Night Students

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B75a</td>
<td>Introduction to Engine Overhaul</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B75b</td>
<td>Engine Repair Techniques</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B75c</td>
<td>Advanced Engine Overhaul</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B75d</td>
<td>Advanced Engine Machining</td>
<td>3.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives — to equal 26 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B1a</td>
<td>Introduction to Automotive Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B14</td>
<td>Auto Tune-Up: Electrical/Ignition/Accessories</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B15</td>
<td>Auto Tune-Up: Fuel Systems and Emission Control</td>
<td>11.0</td>
</tr>
<tr>
<td>AUTO B64</td>
<td>Automotive Electricity and Electronics</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B61</td>
<td>Basic &amp; Enhanced Area Clean Air Car Course</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B112</td>
<td>Automotive Transmissions and Gear Boxes</td>
<td>9.0</td>
</tr>
<tr>
<td>INDT B275</td>
<td>Special Problems in Automotive Technology</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1a</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1b</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Automotive Heating, Ventilation & Air Conditioning (HVAC) Job Skills Certificate
This program develops student’s knowledge and skills in automotive and light truck heating and air conditioning systems. The program includes instruction and theory in the operation, diagnosis, environmental concerns from refrigerants, electrical controls and computer operation, and proper repairs to these systems. Career opportunities in Automotive Technology prepare automotive technicians for employment as auto technicians for operation, diagnosis, environmental concerns from refrigerants, electrical controls and computer operation, and proper repairs to these systems.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Automotive Heating, Ventilation & Air Conditioning (HVAC) Job Skills Certificate.

To Transfer Coursework
A minimum of 26 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.

Total Units: 26

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B14</td>
<td>Auto Tune-Up: Electrical/Ignition/Accessories</td>
<td>11.0</td>
</tr>
<tr>
<td>AUTO B15</td>
<td>Auto Tune-Up: Fuel Systems and Emission Control</td>
<td>11.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives — to equal 26 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B59</td>
<td>Automotive Air Conditioning</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B64</td>
<td>Automotive Electricity and Electronics</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B61</td>
<td>Basic &amp; Enhanced Area Clean Air Car Course</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B75a</td>
<td>Introduction to Engine Overhaul</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B2a</td>
<td>Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>ELET B1</td>
<td>Basic Electronics (DC and AC)</td>
<td>4.0</td>
</tr>
<tr>
<td>ENGL B50</td>
<td>Introduction to College Composition</td>
<td>4.0</td>
</tr>
<tr>
<td>INDT B275</td>
<td>Special Problems in Automotive Technology</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Auto Tune-Up and Emission Systems Certificate of Achievement
This program develops student’s knowledge and skills in the areas of automotive and light truck tune-up and emission control systems. Program includes instruction in theory of ignition, fuel, and computer control systems as well as emission test procedures and complete diagnostic and repair procedures.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Auto Tune-Up and Emissions Systems Certificate of Achievement.
• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.

Total Units: 15

Required Courses
Course Number Title Units
AUTO B59 Automotive Air Conditioning 4.0
AUTO B14 Auto Tune-Up: Electrical/Ignition/Accessories 11.0

Automotive Management Job Skills Certificate
This program develops the student’s knowledge and basic skills to seek entry level employment in the automotive services industry. These include a general technical knowledge of the automobile and light truck; automotive service writing including California legal requirements set forth by the Bureau of Automotive Repair; customer satisfaction including telephone and face-to-face interpersonal communications skills; handling warranty claims and documentation; DMV documentation and processing; use and understanding of general office keyboarding skills, and automotive parts sales and stocking systems.

Career opportunities include automotive repair front desk, occupations requiring a general technical knowledge of the automobile and light truck, automotive service writing including California legal requirements set forth by the Bureau of Automotive Repair, handling warranty claims, DMV documentation and processing, automotive parts sales and stocking systems.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Automotive Management Job Skills Certificate.

To Transfer Coursework
A minimum of 24 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• understand shop and office personal safety and environmental hazards related to the automotive industry.
• understand how to write service repair orders using both written and computerized formats.
• demonstrate proper telephone and interpersonal communication skills.
• have knowledge of and practice in creating DMV documentation and processing.
• understand California consumer protection laws and the Bureau of Automotive Repairs regulations.
• have knowledge and practice of accepted work ethics in the automotive repair business.
• have knowledge of the automotive parts handling systems and sales techniques.
• have knowledge and practice of handling consumer warranty claims and documentation.

Total Units: 14

Required Courses
Course Number Title Units
AUTO B1ab Introduction to Automotive Technology 4.0
AUTO B3 Fundamentals of Automotive Management and Services 4.0
INDT B10 Occupational Readiness 3.0
-COMP B5 Introduction to Microsoft Office 3.0

Automotive Power Trains Certificate of Achievement
This program develops student’s knowledge and skills in the areas of automotive and light truck standard and automotive transmissions, differential and drive train components. Program includes instruction in theory of operation, diagnostic and repair procedures as well as complete repair procedures.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Automotive Power Trains Certificate of Achievement.

To Transfer Coursework
A minimum of 24 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.

Total Units: 24

Required Courses
Course Number Title Units
AUTO B112 Automotive Transmissions and Gear Boxes 9.0
AUTO B14 Auto Tune-Up: Electrical/Ignition/Accessories 11.0
-COMP B5 Introduction to Microsoft Office 3.0

Electives — for a total of at least 24 units
Course Number Title Units
AUTO B106 Auto Brakes/Suspension/Alignment 9.0
AUTO B61 Basic & Enhanced Area Clean Air Car Course 4.0
AUTO B2a Engine Repair & Machining 9.0
-COMP B5 Introduction to Microsoft Office 3.0
AUTO B75a Introduction to Engine Overhaul 3.0
INDT B275 Special Problems in Automotive Technology 2.0
WELD B74a Introduction to GMAW (Gas Metal Arc Welding) and FCAW (Flux Core Arc Welding) 2.0
WELD B74b Introduction to Gas Tungsten Arc Welding 2.0
**Basic and Advanced Clean Air Car Course Job Skills Certificate**

This course prepares the student to take the California State Smog Test. It also helps prepare the student to take the ASE (Automotive Service Excellence) A-6, A-8 and L-1 tests. All elements of this class are mandated by the California Department of Consumer Affairs, Bureau of Automotive Repair and are subject to periodic change and addition by that agency.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Basic and Advanced Clean Air Car Course Job Skills Certificate.

**To Transfer Coursework**

A minimum of 15 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for certification in the automotive program.

**Total Units: 15**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B15</td>
<td>Auto Tune-up: Fuel Systems and Emission Controls</td>
<td>11.0</td>
</tr>
<tr>
<td>AUTO B61</td>
<td>Basic and Enhanced Area Clean Air Car Course</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Industrial Technology, Automotive Option Associate in Science**

This degree prepares students to work as technicians in the automotive industry and provides them with a broad based general education as well as technical competency required for the industry. In addition to the general education requirements prescribed by the Board of Governors of the California Community Colleges and the Board of Trustees of the Kern Community College District, the student must successfully complete 31 units from the automotive courses listed below. From these classes the student should choose two major classes in a specialty area and make up the remainder of the 32 units from areas of choice. Career opportunities in automotive technology include automotive engine performance and emissions, engine overhaul, brakes and suspension, transmission and gear box overhaul.

**To Achieve the Associate in Science**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Industrial Technology, Automotive Option Associate in Science degree.

**To Transfer Coursework**

A minimum of 31 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment in the automotive industry.
- demonstrate problem solving skills used in the automotive industry.
- demonstrate a deep understanding of the core material required for certification in the automotive program.

**Total Units: 31**

**Select 31 units from the following courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B2a</td>
<td>Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B2b</td>
<td>Advanced Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B106</td>
<td>Auto Brakes/Suspension/Alignment</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B112</td>
<td>Automotive Transmissions and Gear Boxes</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B14</td>
<td>Auto Tune-Up: Electrical/Ignition/</td>
<td>11.0</td>
</tr>
<tr>
<td></td>
<td>Accessories</td>
<td></td>
</tr>
<tr>
<td>AUTO B15</td>
<td>Auto Tune-Up: Fuel Systems and Emission</td>
<td>11.0</td>
</tr>
<tr>
<td></td>
<td>Controls</td>
<td></td>
</tr>
<tr>
<td>ELET B1</td>
<td>Basic Electronics (DC and AC)</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Biology**

**Biology - General Biology Associate in Science**

Biology is the study and application of principles of cell biology, ecology, evolution, genetics, anatomy and physiology as it relates to humans and other organisms. Laboratory and field trip activities emphasize the integrated and interdependent nature of living systems. Course work trains students to use observation and investigation to identify questions and pursue answers using the scientific method.

Graduates with biology degrees may pursue jobs in a variety of fields including biochemistry, biotechnology, botany, ecology, entomology, genetics, health, immunology, medicine, molecular biology, oceanography, pharmacy, teaching, wildlife management, zoology, and related clinical fields. Biology majors may choose to specialize in research based on a particular organism or an aspect of biology related to those listed above. Career opportunities in Biology include many fields of biology, medical school, dental school and veterinary school.

**To Achieve the Associate in Science**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Biology - General Biology Associate in Science degree.

**To Transfer Coursework**

A minimum of 20 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency using a microscope.
- research a topic, design experiments, synthesize and evaluate information they find, and justify and express their opinion on virtually any topic using the scientific method.

**Total Units: 20**
### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B3a</td>
<td>General Biology I</td>
<td>5.0</td>
</tr>
<tr>
<td>BIOL B3b</td>
<td>General Biology II</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1a</td>
<td>General Chemistry I</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1b</td>
<td>General Chemistry and Chemical Analysis</td>
<td>5.0</td>
</tr>
</tbody>
</table>

### Electives

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B16</td>
<td>General Microbiology</td>
<td>5.0</td>
</tr>
<tr>
<td>BIOL B21</td>
<td>Special Projects in Biology</td>
<td>1-2.0</td>
</tr>
</tbody>
</table>

### Biology - Human Biology Associate in Science

Courses required for the Human Biology Associate of Science degree include biology and chemistry courses necessary for transfer to allied health programs such as nursing, physical therapy, Physician Assistant, and radiology. Please refer to the Suggested Program information and check with a counselor concerning specific degree requirements to specific programs and transfer institutions. Please note that many of the courses have prerequisites that are best taken in the appropriate order to ensure success.

Career opportunities in Biology include Nursing, physical therapy, medical technologist, and physician assistant.

**To Achieve the Associate in Science**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Biology - General Biology Associate in Science degree.

**To Transfer Coursework**

A minimum of 18 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Fourth semester Nursing students and second semester radiologic technology students will report biology prerequisite courses were important to their success thus far in the program.

Students who successfully complete the allied health pathway will be accepted into the Nursing program (defined as NURS B1) and further, those students will persist and complete the Nursing program (defined as NURS B9 and B10).

Upon successful completion, the student will:

- identify medical problems and apply appropriate and effective solutions.
- analyze a clinical situation using anatomical terminology, select the correct technology to use for further examination, analyze and determine a diagnosis when a pathology is described, create a plan of action.
- demonstrate proficiency using a microscope.

**Total Units: 18**

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B32</td>
<td>Human Anatomy and Physiology I</td>
<td>4.0</td>
</tr>
<tr>
<td>BIOL B33</td>
<td>Human Anatomy and Physiology II</td>
<td>4.0</td>
</tr>
<tr>
<td>BIOL B16</td>
<td>General Microbiology</td>
<td>5.0</td>
</tr>
</tbody>
</table>

### Electives — for a total of at least 18 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B21</td>
<td>Special Projects in Biology</td>
<td>1-2.0</td>
</tr>
<tr>
<td>BIOL B34</td>
<td>Pathophysiology</td>
<td>3.0</td>
</tr>
<tr>
<td>CHEM B2a</td>
<td>Introductory General Chemistry</td>
<td>4.0</td>
</tr>
<tr>
<td>CHEM B11</td>
<td>Introduction to General, Organic, and Biochemistry</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1a</td>
<td>General Chemistry I</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1b</td>
<td>General Chemistry and Chemical Analysis</td>
<td>5.0</td>
</tr>
<tr>
<td>MEDS B60</td>
<td>Medical Terminology</td>
<td>3.0</td>
</tr>
<tr>
<td>NUTR B10</td>
<td>Elementary Nutrition</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Note: Students transferring to a four-year institution for a Bachelor of Science in Biology generally take the CHEM B1a, B1b sequence. Note: Students transferring for a Bachelor of Science in Nursing should consult the university of choice as to which chemistry sequence meets transfer needs.

### Suggested Program for Biology Majors

This suggested program meets all Intersegmental General Education Transfer Curriculum requirements. This program is a series of courses that community college students can use to satisfy lower-division general-education requirements at any California State University or University of California campus. It will permit a student to transfer to a campus of the CSU or the UC system without the need, after transfer, to take additional lower-division general-education courses to satisfy campus general education requirements. The program also meets or exceeds the minimum entrance requirements for most medical schools and other health professional programs. This program assumes you are academically prepared for university-level courses. Students requiring additional preparation in mathematics, reading or English will require at least one additional semester and should consult a counselor for advice.

### First Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B3a</td>
<td>General Biology I</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1a</td>
<td>General Chemistry I</td>
<td>5.0</td>
</tr>
<tr>
<td>ENGL B1a</td>
<td>Expository Composition</td>
<td>3.0</td>
</tr>
<tr>
<td>art or Humanities elective</td>
<td>3.0</td>
<td></td>
</tr>
</tbody>
</table>

### Second Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B3b</td>
<td>General Biology II</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1b</td>
<td>General Chemistry and Chemical Analysis</td>
<td>5.0</td>
</tr>
<tr>
<td>ENGL B2</td>
<td>Advanced Composition and Critical Thinking</td>
<td>4.0</td>
</tr>
<tr>
<td>PHIL B9</td>
<td>Critical Thinking and Advanced Composition</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Third Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6a</td>
<td>Analytic Geometry and Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2a</td>
<td>General Physics-Mechanics and Heat</td>
<td>4.0</td>
</tr>
<tr>
<td>COMM B1</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td>Art or Humanities elective</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>Social or Behavioral Science elective</td>
<td>3.0</td>
<td></td>
</tr>
</tbody>
</table>

### Fourth Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6b</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2b</td>
<td>General Physics-Sound, Light, Electricity, Magnetism, Modern Physics</td>
<td>4.0</td>
</tr>
<tr>
<td>Art or Humanities elective</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>Social or Behavioral Science elective</td>
<td>3.0</td>
<td></td>
</tr>
</tbody>
</table>
Note: Some UC campuses now require calculus-based physics for biology majors and other particular courses. If you are planning to transfer to a UC campus, contact their admissions office for advice.

**Business Administration**

The Business Administration department strives to promote and enhance the economic development of the community; to provide for lifelong learning and academic excellence through course content, application, and technology; to serve diverse populations with a sense of worth and dignity; to establish work ethics relative to a positive work environment; to meet workforce needs through skills development, training, and personal growth; and to communicate a sense of vision and renewal through a creative utilization of productive and innovative resources.

**Associate in Science in Business Administration for Transfer**

The Associate in Science in Business Administration for Transfer degree (AS-T in Business Administration) is designed to provide students a clear transfer pathway to the CSU business administration major and completion of the business administration baccalaureate degree, to grant guaranteed admission to a CSU to a similar major with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. The Associate of Science in Business Administration for Transfer degree provides a study of key business concepts. Business Administration majors will be able to analyze business scenarios and use numerical, graphical, symbolic, and verbal representations to effectively solve problems and communicate those solutions. Business Administration majors will be able to communicate economic effects, effectively convey financial information, and explain social, political, and ethical implications of business decision-making. The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B1</td>
<td>Financial Accounting</td>
<td>4.0</td>
</tr>
<tr>
<td>BSAD B2</td>
<td>Managerial Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B18</td>
<td>Business Law</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B1</td>
<td>Principles of Economics: Micro</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B2</td>
<td>Principles of Economics: Macro</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B22</td>
<td>Elementary Probability &amp; Statistics</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**List A (any one of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B2</td>
<td>Business Calculus</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B23</td>
<td>Finite Math</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List B (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B53a</td>
<td>Introduction to Accounting 1</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B53b</td>
<td>Introduction to Accounting 2</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B54</td>
<td>Payroll Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B55</td>
<td>Computer Accounting Applications</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B40</td>
<td>Personal Finance</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B51</td>
<td>Business Mathematics</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B264</td>
<td>Ten-Key Proficiency</td>
<td>0.5</td>
</tr>
<tr>
<td>BSAD B18</td>
<td>Business Law</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B20</td>
<td>Introduction to Business</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B5</td>
<td>Human Relations and People Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Required Units: 26-27

**Accounting Associate in Arts**

An Accounting degree provides students with the knowledge and skills necessary for employment and growth in the accounting profession. Using the language of business, accountants assemble and analyze, process, and communicate essential information about financial operations.

**To Achieve the Associate in Arts**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Accounting Associate in Arts degree.

**To Transfer Coursework**

A minimum of 30.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:
- analyze and record financial transactions in a manual or computerized general ledger system.
- prepare financial statements; analyze and prepare financial information for management decision making.
- utilize current income tax resources to prepare personal income tax returns.
- communicate financial information effectively within a business environment.
- process payroll transactions in accordance with current payroll reporting requirements.

Total Units: 30.5

**Office Assistant Job Skills Certificate**

This certificate prepares students as entry-level office support staff. Students are urged to continue beyond the Job Skills Certificate and earn a Certificate of Achievement or Associate of Arts degree.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Office Assistant Job Skills Certificate.
To Transfer Coursework
A minimum of 11 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- interact effectively in oral and written communication.
- participate in office related work experience to achieve the following desirable job qualities:
  - function as a team member.
  - demonstrate interpersonal skills on the job.
  - manage multi-tasks efficiently.
  - model professional and ethical behaviors.
  - identify soft skills such as being on time.
- demonstrate minimum acceptable skills in ten-key, keyboarding, and document processing.
- demonstrate minimum filing competencies.

Total Units: 11

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B252abc</td>
<td>Computer Keyboarding, Parts 1-2-3</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B287</td>
<td>Filing</td>
<td>1.5</td>
</tr>
<tr>
<td>BSAD B88/B285</td>
<td>Business English</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B264</td>
<td>Ten-Key Proficiency</td>
<td>0.5</td>
</tr>
<tr>
<td>BSAD B53a</td>
<td>Introduction to Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B5</td>
<td>Human Relations/People Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B88</td>
<td>Office Procedures</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B253abc</td>
<td>Document Processing, Part 1-2-3</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B280</td>
<td>Machine Transcription</td>
<td>1.5</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>1-3.0</td>
</tr>
<tr>
<td>BSAD B20</td>
<td>Introduction to Business</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Office Assistant Certificate of Achievement

An Office Assistant Certificate of Achievement increases the student's employability as office support staff. Students who have completed the Job Skills Certificate courses can quickly upgrade to the Certificate of Achievement by completing the following courses with at least a 'C' grade.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Office Assistant Certificate of Achievement.

To Transfer Coursework
A minimum of 27-29 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate minimum acceptable skills in ten-key, keyboarding, and document processing.
- demonstrate minimum filing competencies.
- interact effectively in oral and written communication.
- participate in office related work experience to achieve the following desirable job qualities:
  - function as a team member.
  - demonstrate interpersonal skills on the job.
  - manage multi-tasks efficiently.
  - model professional and ethical behaviors.
  - identify soft skills such as being on time.
- demonstrate minimum filing competencies.

Total Units: 27-29

Administrative Office Assistant Associate in Arts

The Administrative Office programs are designed to provide the skills and competencies needed to become an efficient, productive member of an office support team. Courses are designed to help students learn to analyze and coordinate office duties and systems, develop proficiency in the use of integrated software, and improve oral and written communication. Emphasis is placed on non-technical as well as technical skills. Students have the option of completing certificates and/or a two-year degree program. Designed to prepare the student for employment as office support staff to assist managers, executives, and professionals.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Administrative Office Assistant Associate in Arts degree.

To Transfer Coursework
A minimum of 30-32 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate minimum acceptable skill levels in ten-key, keyboarding, and document processing.
- interact effectively in oral and written communication.
- participate in office related work experience to achieve the following desirable job qualities:
  - function as a team member.
  - demonstrate interpersonal skills on the job.
  - manage multi-tasks efficiently.
  - model professional and ethical behaviors.
  - identify soft skills such as being on time.
- demonstrate minimum filing competencies.

Total Units: 30-32

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B252abc</td>
<td>Computer Keyboarding, Parts 1-2-3</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B287</td>
<td>Filing</td>
<td>1.5</td>
</tr>
<tr>
<td>BSAD B88/B285</td>
<td>Business English</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B264</td>
<td>Ten-Key Proficiency</td>
<td>0.5</td>
</tr>
<tr>
<td>BSAD B53a</td>
<td>Introduction to Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B5</td>
<td>Human Relations/People Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B88</td>
<td>Office Procedures</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B253abc</td>
<td>Document Processing, Part 1-2-3</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B280</td>
<td>Machine Transcription</td>
<td>1.5</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>1-3.0</td>
</tr>
<tr>
<td>BSAD B20</td>
<td>Introduction to Business</td>
<td>3.0</td>
</tr>
</tbody>
</table>
**Bookkeeping Certificate of Achievement**

The Bookkeeping program provides students with the knowledge and skills necessary for employment and growth in the accounting profession. Using the language of business, accountants assemble and analyze, process, and communicate essential information about financial operations.

**To Achieve the Certificate of Achievement**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Bookkeeping Certificate of Achievement.

**To Transfer Coursework**

A minimum of 25.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:
- analyze and record financial transactions in a manual or computerized general ledger system.
- communicate financial information effectively within a business environment.
- process payroll transactions in accordance with current payroll reporting requirements.
- prepare financial statements; analyze and prepare financial information for management decision-making.
- utilize current income tax resources to prepare personal income tax returns.

**Total Units: 25.5**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B53a</td>
<td>Introduction to Accounting 1</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B53b</td>
<td>Introduction to Accounting 2</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B54</td>
<td>Payroll Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B55</td>
<td>Computer Accounting Applications</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B51</td>
<td>Business Mathematics</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B264</td>
<td>Ten-Key Proficiency</td>
<td>0.5</td>
</tr>
<tr>
<td>BSAD B252a</td>
<td>Computer Keyboarding, Part 1</td>
<td>1.0</td>
</tr>
<tr>
<td>BSAD B20</td>
<td>Introduction to Business</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B5</td>
<td>Human Relations/People Skills</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Retail Management Certificate of Achievement**

A Certificate of Achievement in Retail Management is designed to prepare students for entry-level employment. The Certificate will provide the student with broad-based knowledge and skills in retailing including grocery chains. This foundation can be built into many successful careers. The certificate is approved by members of the Western Association of Food Chains, all the major supermarket chains in the western 13 states. It encompasses several business essentials, including the soft skills of management and communication required for career success in the retail food industry.

**To Achieve the Certificate of Achievement**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Retail Management Certificate of Achievement.

**To Transfer Coursework**

A minimum of 30-31 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:
- perform the duties of a supervisor or middle level manager.
- analyze and record financial transactions in a manual or computerized general ledger system.
- effectively communicate within an organization in both written and oral media.
- make legal and ethical decisions that achieve organizational objectives.

**Total Units: 30-31**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B1</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td>-or-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The Associate of Science in Chemistry is appropriate for students interested in transferring to a four-year university as a major in the sciences. The major will provide students with a complete general education in math and core physical sciences as well as an introduction to some basic computer systems skills. Additionally, the degree provides the student employment opportunities within local industries as a laboratory technician. Career opportunities in Chemistry for transfers, are varied and broad, ranging from all chemical industries, physics, all other areas of the physical sciences, engineering, and all areas of the biological sciences and allied health fields. Examples of local industries include: agriculture, geo and petrochemical businesses, analytical services and laboratories.

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Chemistry Associate in Science degree.

To Transfer Coursework
A minimum of 38 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate a knowledge of and recognize the processes that explain natural phenomena.
• apply the methodologies of science when approaching a problem.
• apply logical quantitative and qualitative reasoning in solving problems.

Total Units: 38

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM B1a</td>
<td>General Chemistry I</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1b</td>
<td>General Chemistry &amp; Chemical Analysis</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B18</td>
<td>Organic Chemistry</td>
<td>5.0</td>
</tr>
<tr>
<td>MATH B6a</td>
<td>Analytic Geometry &amp; Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6b</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6c</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Plus 8 units from the following

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS B4a*</td>
<td>Mechanics &amp; Wave Motion</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4b*</td>
<td>Heat, Electricity &amp; Magnetism</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2a and</td>
<td>General Physics-Mechanics &amp; Heat</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2b</td>
<td>General Physics-Sound, Light, Electricity, Magnetism, Modern Physics</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS B4c*</td>
<td>Optics &amp; Modern Physics</td>
<td>4.0</td>
</tr>
<tr>
<td>BIOL B3b</td>
<td>General Biology II</td>
<td>5.0</td>
</tr>
<tr>
<td>BIOL B16</td>
<td>General Microbiology</td>
<td>5.0</td>
</tr>
</tbody>
</table>

Suggested Program for Chemistry Associate in Science

First Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM B1a</td>
<td>General Chemistry I</td>
<td>5.0</td>
</tr>
<tr>
<td>MATH B6a</td>
<td>Analytic Geometry &amp; Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM B1b</td>
<td>General Chemistry &amp; Chemical Analysis</td>
<td>5.0</td>
</tr>
<tr>
<td>PHYS B4a*</td>
<td>Mechanics &amp; Wave Motion</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6b</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Third Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM B18</td>
<td>Elementary Organic Chemistry</td>
<td>5.0</td>
</tr>
<tr>
<td>MATH B6c</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4b*</td>
<td>Heat, Electricity, &amp; Magnetism</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2a</td>
<td>General Physics-Mechanics &amp; Heat</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Fourth Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS B4c*</td>
<td>Optics &amp; Modern Physics</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2b</td>
<td>General Physics-SLEMM</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Note: BIOL B3b no longer has BIOL B3a as prerequisite.

The courses in physics (PHYS B4a, B4b, B4c), math (MATH B6a through MATH B6c) and chemistry (CHEM B1a and B1b) are required as preparation for the major in chemistry at most transfer colleges and universities. See www.assist.org for specific major preparation courses for the CSUs and UCs. Two courses in English composition (ENGL B1a and ENGL B2 or PHIL B9) as well as general education courses are also required. Please consult with a counselor for more specific information and study the catalog of the senior institution to which you intend to transfer.

Child Development

The Associate in Science in Early Childhood Education for Transfer degree is designed to train students to work in a variety of early childhood settings. The two-year program primarily serves students desiring an early childhood background, supervised student teaching experience and fulfillment of academic requirements for a Child Development Teacher Permit. Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Development and Family Relations Associate in Science degree.
Upon successful completion, the student will:

- evaluate elements of diversity and diverse learning styles in student populations.
- analyze how teachers and schools can promote learning for all students.
- demonstrate proficiency in 14 content areas required for subject matter competency for elementary teachers.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B20</td>
<td>Principles and Practices</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B22</td>
<td>Observation and Assessment: Birth</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B32</td>
<td>Teaching in a Diverse Society</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B36</td>
<td>Developmentally Appropriate Curriculum</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B41</td>
<td>Supervised Field Experience in Early Childhood Education</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B42</td>
<td>Child, Family, and Community</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B49</td>
<td>Child Health, Safety, and Nutrition</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Total Required Units:** 24

### Associate in Arts in Elementary Teacher Education for Transfer

The Associate in Arts in Elementary Teacher Education for Transfer degree is designed to prepare students for transfer to a California State University traditional or integrated teacher preparation program. The Associate in Arts in Elementary Teacher Education for Transfer degree incorporates the elementary subject matter competence requirements as established by the California Teacher Credentialing Commission and prepares students for the California Subject Examinations for Teachers (CSET) Multiple Subjects exam. Additionally, the degree may also serve as preparation for paraprofessional positions in the K-12 classroom, meeting unit requirements for paraprofessionals as established by the No Child Left Behind Act.

**Program Learning Outcomes**

Upon successful completion, the student will:

- evaluate elements of diversity and diverse learning styles in student populations.
- analyze how teachers and schools can promote learning for all students.
- demonstrate proficiency in 14 content areas required for subject matter competency for elementary teachers.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B11</td>
<td>Concepts of Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B1</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC B24</td>
<td>Early Field Experience for Elementary Teachers</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B1A</td>
<td>Expository Composition</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B1B</td>
<td>Introduction to Types of Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ERSC B10</td>
<td>Introduction to Earth Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ERSC B10L</td>
<td>Earth Science Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>GEOG B5</td>
<td>World Regional Geography</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B1</td>
<td>World History from the Origins of Civilization to 1600</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B17A</td>
<td>History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B4A</td>
<td>Mathematics for Elementary School Teaching</td>
<td>4.0</td>
</tr>
<tr>
<td>PHSC B12</td>
<td>Physical Science</td>
<td>4.0</td>
</tr>
<tr>
<td>POLS B1</td>
<td>American Government: National, State and Local</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A: select one (4 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B3</td>
<td>Argumentative Writing and Critical Thinking Through Literature</td>
<td>4.0</td>
</tr>
<tr>
<td>PHIL B9</td>
<td>Critical Thinking and Advanced Composition</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**List B: select one (3 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B1</td>
<td>Art Appreciation</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B22</td>
<td>Music Appreciation</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B20</td>
<td>Introduction to Theatre</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List C: select one (3 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B18</td>
<td>History of California</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Total required units:** 53

### Child Development Assistant Teacher Job Skills Certificate

This course work meets the requirements for the Child Development Assistant Teacher Permit. Career opportunities in Child Development include Assistant Child Development Teacher.
To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Child Development Associate Teacher Job Skills Certificate.

To Transfer Coursework
A minimum of 6 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate a developmentally appropriate curriculum.
- be employable as an assistant teacher in a private child development program.

Total Units: 6

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B36</td>
<td>Developmentally Appropriate Curriculum</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B20</td>
<td>Principles and Practices</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Child Development Associate Teacher Job Skills Certificate
This course work meets the requirements for the Child Development Associate Teacher Permit. This course work also meets the Child Development requirements for a fully qualified teacher in a licensed Preschool Child Development Center or School-Age Center.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Child Development Associate Teacher Job Skills Certificate.

To Transfer Coursework
A minimum of 12 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- be able to articulate 12 units with California State University, Bakersfield.
- be employable as an associate teacher in a publicly funded or private child development program.
- will have pediatric CPR and First Aid certification.

Total Units: 12

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B20</td>
<td>Principles and Practices</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B36</td>
<td>Developmentally Appropriate Curriculum</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B42</td>
<td>Child, Family and Community</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B49</td>
<td>Child Health, Safety and Nutrition</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Child Development Master Teacher - Infant Toddler Certificate of Achievement
The Certificate of Achievement for Child Development Master Teacher - Infant Toddler may be earned by taking the 27 units of child development courses required for the Child Development Teacher Certificate of Achievement and the following courses.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Child Development Master Teacher - Infant Toddler Certificate of Achievement.

To Transfer Coursework
A minimum of 35 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- be able to articulate 12 units with California State University, Bakersfield.
- acquire a teacher permit from the State of California Teacher Commission.
- meet all requirements for the Associate in Science degree in the major.
- be employable as a teacher in publicly funded or private child development programs.
- will have pediatric CPR and First Aid certification.

Total Units: 27

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth Through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B22</td>
<td>Observation and Assessment-Birth</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B32</td>
<td>Teaching in a Diverse Society</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B36</td>
<td>Developmentally Appropriate Curriculum</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B40</td>
<td>Creative Art, Movement, and Music Activities for Young Children</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B42</td>
<td>Child, Family and Community</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B49</td>
<td>Child Health, Safety, and Nutrition</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B20</td>
<td>Principles and Practices</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B41</td>
<td>Supervised Field Experience in Early Childhood Education</td>
<td>3.0</td>
</tr>
</tbody>
</table>
• acquire a teacher permit from the Commission on Teacher Credentialing.
• meet all requirements for the Associate in Science degree in the major.
• be able to receive a job as a master teacher in a publicly funded or private child development program.
• have a pediatric CPR and First Aid certification.

Total Units: 35

Required Courses (completion of the Child Development Teacher Certificate of Achievement plus the following)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B13c</td>
<td>Child Growth and Development: The Infant Toddler Years</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B52</td>
<td>Care of Infants and Toddlers with Disabilities</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B53a</td>
<td>Early Childhood Education: Adult Supervision</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Child Development Master Teacher - Special Education Certificate of Achievement
The Certificate of Achievement for Child Development Master Teacher - Special Education may be earned by taking the 28 units of child development courses required for the Child Development Teacher Certificate of Achievement and the following courses.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Development Master Teacher - Special Education Certificate of Achievement.

To Transfer Coursework
A minimum of 35 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• be able to articulate 12 units with California State University, Bakersfield.
• acquire a teacher permit from the Commission on Teacher Credentialing.
• meet all requirements for the Associate in Science degree in the major.
• be able to receive a job as a master teacher in a publicly funded or private child development program.
• have a pediatric CPR and First Aid certification.

Total Units: 35

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B33</td>
<td>Survey of Special Education</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B52</td>
<td>Care of Infants and Toddlers with Disabilities</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B53a</td>
<td>Early Childhood Education: Adult Supervision</td>
<td>2.0</td>
</tr>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth Through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B22</td>
<td>Observation and Assessment-Birth Through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B32</td>
<td>Teaching in a Diverse Society</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B36</td>
<td>Developmentally Appropriate Curriculum</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B40</td>
<td>Creative Art, Movement, and Music Activities for Young Children</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B42</td>
<td>Child, Family and Community</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B49</td>
<td>Child Health, Safety, and Nutrition</td>
<td>3.0</td>
</tr>
</tbody>
</table>

CHDV B20 Principles and Practices 3.0
CHDV B41 Supervised Field Experience in Early Childhood Education 3.0

Communication

Communication Studies

Associate in Arts for Transfer

The Associate in Arts in Communication Studies for Transfer is intended for all students who plan to complete an AA in Communication studies. This degree is especially valuable for those students planning on completing a bachelor’s degree in Communication or a similar major at a CSU campus because the Associate in Arts in Communication Studies for Transfer guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Communication Studies for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Communication Studies for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. No additional graduation requirements are required to complete this degree.

The Associate in Arts in Communication Studies for Transfer equips students with relational and presentation skills that provide a foundation for success throughout students’ educational careers, business careers and personal interactions. Students learn about verbal and nonverbal channels of communication that inform, persuade, manage, interpret, direct, or influence social interaction in diverse contexts. The degree introduces students to both established and contemporary theories of human communication pertaining to societal construction, maintenance, and perpetuation of acceptable patterns of communicative conduct. Students choosing this degree also acquire pragmatic communication skills enabling them to competently navigate social interaction within interpersonal, small group, public, organizational, and intercultural contexts. Students learn field-specific nomenclature as well as effective oral, listening, and critical thinking skills needed to successfully manage communication encounters in a variety of professional and personal environments. Students will be prepared in this lower division work for a baccalaureate degree in Communication Studies, Speech Communication, or a similar degree.

To Achieve the Associate in Arts for Transfer
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Communication Studies Associate in Arts for Transfer degree.

To Transfer Coursework
A minimum of 18 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• form and present informative persuasive messages.
• demonstrate competence in both active and empathic listening.
Upon successful completion, the student will:

- present oral messages to appropriate audiences and adhere to conventions of message delivery.
- manage personal communication apprehension and anxiety.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B1*</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Group A (any two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B2*</td>
<td>Interpersonal Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B5*</td>
<td>Argumentation and Rhetoric</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B8*</td>
<td>Small Group Communication</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Group B (any two of the following or any Group A course not used)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B2*</td>
<td>Interpersonal Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B4*</td>
<td>Persuasive Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B6*</td>
<td>Intercultural Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B7*</td>
<td>Organizational Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B21</td>
<td>Oral Interpretation</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Group C (any one of the following or any Group A or B course not used)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B9</td>
<td>Health Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B10</td>
<td>Communication and Leadership</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B2</td>
<td>Advanced Composition and Critical</td>
<td>4.0</td>
</tr>
<tr>
<td>JRNL B1</td>
<td>Media and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B2</td>
<td>Beginning Reporting Thinking</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B1a</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Required Subtotal: 18.0

CSU General Education or IGETC Pattern: 39.0

Transfer Electives (as needed to reach 60 transferable units) Degree Total: 60.0

*Courses with an asterisk can be double counted for General Education

### Computer Studies

#### Associate in Science in Computer Science for Transfer

The Associate in Science in Computer Science for Transfer degree (AS-T in Computer Science) is designed to provide students a clear transfer pathway to the CSU computer science major and completion of the computer science baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. Students will take courses in computer science and related fields that will provide the theoretical and practical knowledge necessary to work in a variety of computer related fields such as Software Engineering, Computer Engineering, Computer Systems Analysis, Network Engineering, Cloud Computing, Mobile Application Development, Computer Support, Computer Information Systems, Database Administration, Network Security, and Web Development.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a "C" or better. A "P" (Pass) grade is not acceptable for courses in the major.

#### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B11</td>
<td>Programming Concepts and Methodologies I</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B12</td>
<td>Programming Concepts II</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B13</td>
<td>Computer Architecture &amp; Organization</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B14</td>
<td>Discrete Structures</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B6a</td>
<td>Analytic Geometry and Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6b</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>Course Number</td>
<td>Title</td>
<td>Units</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>PHYS B4a</td>
<td>Mechanics and Wave Motion</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4b</td>
<td>Heat, Electricity, Magnetism</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total required units in major area of emphasis: 28

**Construction Technology Certificate of Achievement**

The requirements for the Construction Technology Certificate of Achievement are intended to provide students with the opportunity to develop skills and knowledge to enter into the diverse residential construction field. So each student can explore and design their respective career path, emphasis is placed on blending technical skill development, industrial safety with practical lab activities. Students can obtain these courses from within the Construction Technology area and from the various related disciplines (architecture, industrial drawing, industrial technology and wood technology).

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Construction Technology Certificate of Achievement.

To Transfer Coursework

A minimum of 26 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:
- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

Total Units: 26-27

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH B6</td>
<td>Materials of Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B55</td>
<td>Residential Building Codes</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B1</td>
<td>Introduction to Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B2</td>
<td>Estimating and Scheduling</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B50a</td>
<td>Residential Construction</td>
<td>7.0</td>
</tr>
<tr>
<td>CNST B50b</td>
<td>Residential Construction</td>
<td>7.0</td>
</tr>
<tr>
<td>INDT B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH B56</td>
<td>Commercial Codes</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B1ab</td>
<td>Introduction to Automotive Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>INDR B20a</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B50</td>
<td>Modern College Arithmetic and Pre-Algebra</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B1a</td>
<td>Introduction to the Welding Process</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Note: Students should consult with their counselors for best possible selections for their programs of study.

**Industrial Technology, Construction Option Associate in Science**

The requirements for the Associate in Science Degree in Industrial Technology, Construction Option are intended to provide students with the opportunity to develop and blend the critical thinking skills along with the technical construction skills necessary to supervise or construct structures within the residential building profession. Course work within the construction program is designed to assist students in defining their respective career paths within the diverse and challenging construction profession. Course emphasis is placed on blending technical skill development, industrial safety with practical lab activities. Students can obtain these courses from within the Construction Technology area and from the various related disciplines (architecture, industrial drawing, industrial technology and wood technology). To complement the individual student's academic and technical growth, students complete required General Education courses. Students working toward this degree are also encouraged to apply for the Construction Technology Certificate of Achievement. Career opportunities include entry level construction trades, estimators, construction supervisors & managers, inspectors, construction educators and Class A, B & C licensed contractors.

To Achieve the Associate in Science

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Industrial Technology, Construction Option Associate in Science degree.

To Transfer Coursework

A minimum of 26 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:
- demonstrate proficiency in technical skills and safety principles required for employment in the construction industry.
- demonstrate program solving skills used in the construction industry.
- demonstrate a deep understanding of the core material required for certification in construction technologies.

Total Units: 26

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH B55</td>
<td>Residential Building Codes</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B1</td>
<td>Introduction to Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B2</td>
<td>Estimating and Scheduling</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B50a</td>
<td>Residential Construction</td>
<td>7.0</td>
</tr>
<tr>
<td>CNST B50b</td>
<td>Residential Construction</td>
<td>7.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Electives — for a total of at least 26 units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B20a</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B56</td>
<td>Building and Related Codes</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B6</td>
<td>Materials of Construction</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Correctional Administration

Correctional Administration
Associate in Arts
This program includes classes that will guide students toward careers in law enforcement, the courts and the law, and state, local, and private corrections. These courses have been endorsed by the Joint Apprenticeship Committee of the California Department of Corrections, California Youth Authority, and the California Correctional Peace Officers Association.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Correctional Administration Associate in Arts.

To Transfer Coursework
A minimum of 24 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- identify, analyze, and apply the fundamental theories and concepts underlying the American correctional system.
- identify and describe the operational elements of the major components comprising the American prison and Jail systems.
- identify, analyze, and apply basic legal principles and rules to factual situations.
- identify and implement the principles and procedures utilized in legitimate scientific and criminal investigation.
- demonstrate multicultural awareness and respect for constitutional and human rights.
- identify, analyze, and apply the ethical components of discretionary decision-making in probation, parole, and institutional corrections.
- demonstrate respect for the dignity and humanity of victims, perpetrators, and wrongfully convicted persons.
- demonstrate the ability to communicate effectively orally and in writing.

Total Units: 24

Required Courses

Course Number Title Units
CRIM B21 Introduction to Correctional Administration 3.0
CRIM B50 Criminal Justice Report Writing 3.0
CRIM B60 Legal Aspects of Corrections 3.0
CRIM B2 Criminal Law 3.0
CRIM B12 Forensic and Scientific Aspects of Evidence 3.0
CRIM B55 Special Topics in Criminal Justice 3.0

Electives — at least 6 units

Course Number Title Units
CRIM B22 Institutional Treatment and Supervision of Offenders 3.0
CRIM B23 Fundamentals of Interviewing & Counseling 3.0
CRIM B24 Probation, Parole & Community Corrections 3.0
CRIM B8 Criminal Investigation 3.0
CRIM B9 Juvenile Justice System 3.0

Criminal Justice

Criminal Justice
Associate in Arts
This program includes classes that will guide students toward careers in law enforcement and policing, the courts and the law, and state, local, and private corrections.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Criminal Justice Associate in Arts degree.

To Transfer Coursework
A minimum of 24 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- identify, analyze, and apply the fundamental theories and concepts underlying the American criminal justice system.
- identify and describe the operational elements of the major components comprising the American justice system.
- identify, analyze, and apply basic legal principles and rules to factual situations.

Total Units: 24

Required Courses

Course Number Title Units
CRIM B1 Introduction to Criminal Justice 3.0
CRIM B2 Criminal Law 3.0
CRIM B3 Introduction to Evidence 3.0
CRIM B4 Constitutional Criminal Procedure 3.0
CRIM B12 Forensic and Scientific Aspects of Evidence 3.0
CRIM B55 Special Topics in Criminal Justice 3.0

Electives — at least 6 units

Course Number Title Units
CRIM B5 Community Relations 3.0
CRIM B8 Criminal Investigation 3.0
CRIM B9 Juvenile Justice System 3.0
CRIM B24 Probation, Parole & Community Corrections 3.0
CRIM B50 Criminal Justice Report Writing 3.0

Economics

Associate in Arts in Economics for Transfer
The Associate in Arts in Economics for Transfer Degree is designed to prepare students for transfer into the CSU system to complete a baccalaureate degree in Economics or a similar major. It is designed for students interested in preparing for advanced degrees in Economics, Business, or Law, and for those students concerned with the economic behavior of consumers, businesses, and governments.

Economics majors have a wide variety of career opportunities in business, law, journalism, education, politics, finance and banking, government, public and private overseas service, and labor leadership. Many economics majors go on to pursue graduate study in a related professional area, such as law, business, or public administration.

The following is required for the completion of all AA-T or AS-T degrees:
1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   • A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The attainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON B2</td>
<td>Principles of Macroeconomics</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B1</td>
<td>Principles of Microeconomics</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B22</td>
<td>Elementary Probability and Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B2</td>
<td>Basic Functions and Calculus for Business</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry and Calculus I</td>
<td>4.0</td>
</tr>
</tbody>
</table>

List A (any one of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B1</td>
<td>Financial Accounting</td>
<td>4.0</td>
</tr>
<tr>
<td>BSAD B2</td>
<td>Managerial Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B23</td>
<td>Finite Mathematics</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic and Calculus II</td>
<td>4.0</td>
</tr>
</tbody>
</table>

List B (any one of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6C</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6E</td>
<td>Elementary Linear Algebra</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Total required units:** 20-22

**Electronics Technology Certificate of Achievement**

The Bakersfield College Electronics Certificate program will show the world that you have gained the necessary knowledge and skills to perform better on the job. This program of study is widely recognized and modeled after local industry competency standards. A certified electronic professional often appears more dedicated, more skilled, and thus more attractive to prospective employers. The program includes study in the following areas: Electrical theory and components, soldering, wiring diagrams, safety, advanced analog semiconductor and digital devices, power supplies, test equipment, programmable logic controllers, Allen Bradley SLC 500 and CLX 5000 Instrumentation, temperature, pressure, level detectors, radio communications, antenna and transmission lines, telecommunications, video, data, network technology, motor theory and wiring, computer integrated manufacturing, installation and wiring standards, and mechanical systems.

Career opportunities in Electronics Technology include entry level positions in petroleum/energy, manufacturing automation, instrumentation/process control, logistics and distribution, auxiliary services, telecommunications, radio communications, food and materials processing, and industrial maintenance.

**To Achieve the Certificate of Achievement**

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Electronics Technology Certificate of Achievement.

**To Transfer Coursework**

A minimum of 33 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

**Total Units: 33**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B1</td>
<td>Basic Electronics (DC and AC)</td>
<td>4.0</td>
</tr>
<tr>
<td>ELET B5</td>
<td>Programmable Logic Controllers</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B6</td>
<td>Analog and Digital Electronics</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B55a</td>
<td>Electric Motors-Controls</td>
<td>4.0</td>
</tr>
<tr>
<td>ELET B56</td>
<td>Instrumentation &amp; Process Control</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B61</td>
<td>Telecommunications</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B62</td>
<td>Radio Communications</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B70</td>
<td>Mechanical Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>IND T B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Electives — at least 4 units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B4</td>
<td>Computer Integrated Manufacturing</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B63</td>
<td>Electronic Systems Installation</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>ELET B58</td>
<td>Advanced Programmable Logic Controllers</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B1B</td>
<td>Introduction to Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>MFG T B1ab</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Electronics - Industrial Automation Job Skills Certificate**

The Bakersfield College Electronics Certificate program will show the world that you have gained the necessary knowledge and skills to perform better on the job. This program of study is widely recognized and modeled after local industry competency standards. A certified electronic professional often appears more dedicated, more skilled, and thus more attractive to prospective employers.

The program includes study in the following areas: electrical theory and components, soldering, wiring diagrams, safety programmable logic controllers, Allen Bradley SLC 500 and CLX 5000 computer integrated manufacturing. This program prepares students for careers in electronics technology.

Entry level positions in petroleum/energy, manufacturing automation, process control, logistics and distribution, material processing, and industrial maintenance.

**Program Learning Outcomes**

Upon successful completion, the student will:
• demonstrate proficiency in automation programming/troubleshooting related to programmable logic controllers and safety principles required for industrial employment.
• demonstrate problem solving skills used in ladder logic and sequential function charts, to include design and development of programmable logic controllers circuits.
• demonstrate an understanding of the core material and theory related to programmable automation controllers that is required for transfer to a four year university degree program or for certification.

Total Units: 9

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B4</td>
<td>Computer Integrated Manufacturing</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B5</td>
<td>Programmable Logic Controllers</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B58</td>
<td>Advanced Programmable Logic Controllers</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electronics - Industrial Communication

Job Skills Certificate

The Bakersfield College Electronics Certificate program will show the world that you have gained the necessary knowledge and skills to perform better on the job. This program of study is widely recognized and modeled after local industry competency standards. A certified electronic professional often appears more dedicated, more skilled and thus more attractive to prospective employers.

Program includes study in the following areas: electrical theory and components, soldering, wiring diagrams, safety, programmable logic controllers, instrumentation, temperature, pressure, level detectors, motor theory and wiring, installation and wiring standards and mechanical systems.

This program prepares students for careers in electronics technology. Entry level positions in petroleum/energy, instrumentation/process control, logistics and distribution, ancillary services, materials processing, and industrial maintenance.

Total Units: 10

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B55a</td>
<td>Electric Motors-Controls</td>
<td>4.0</td>
</tr>
<tr>
<td>ELET B56</td>
<td>Instrumentation &amp; Process Control</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B70</td>
<td>Mechanical Systems</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electronics - Manufacturing Automation

Job Skills Certificate

The Bakersfield College Electronics Certificate program will show the world that you have gained the necessary knowledge and skills to perform better on the job. This program of study is widely recognized and modeled after local industry competency standards. A certified electronic professional often appears more dedicated, more skilled and thus more attractive to prospective employers.

Program includes study in the following areas: electrical theory and components, soldering, wiring diagrams, safety, programmable logic controllers, instrumentation, temperature, pressure, level detectors, computer integrated manufacturing motor theory and wiring, and mechanical systems.

This program prepares students for careers in electronics technology, entry level positions in petroleum/energy, manufacturing, instrumentation/process control, logistics and distribution, ancillary services, food and materials processing, and industrial maintenance.

Total Units: 9

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B6</td>
<td>Analog and Digital Electronics</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B61</td>
<td>Telecommunications</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B62</td>
<td>Radio Communications</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electronics - Industrial Maintenance

Job Skills Certificate

The Bakersfield College Electronics Certificate program will show the world that you have gained the necessary knowledge and skills to perform better on the job. This program of study is widely recognized and modeled after local industry competency standards. A certified electronic professional often appears more dedicated, more skilled and thus more attractive to prospective employers.

Program includes study in the following areas: electrical theory and components, soldering, wiring diagrams, safety, programmable logic controllers, instrumentation, temperature, pressure, level detectors, motor theory and wiring, installation and wiring standards and mechanical systems.

This program prepares students for careers in electronics technology. Entry level positions in petroleum/energy, instrumentation/process control, logistics and distribution, ancillary services, materials processing, and industrial maintenance.
Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B4</td>
<td>Computer Integrated Manufacturing</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B5</td>
<td>Programmable Logic Controllers</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B55a</td>
<td>Electric Motors-Controls</td>
<td>4.0</td>
</tr>
<tr>
<td>ELET B56</td>
<td>Instrumentation &amp; Process Control</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B70</td>
<td>Mechanical Systems</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Units: 16

**Industrial Technology, Electronics Option Associate in Science**

Technology runs the planet, with electronics playing an essential role. It is a digital world, and those who understand this world can become valuable additions to technology-focused employers. The Industrial Technology Degree, Electronics Option, teaches essential skills that can be put to use as an industrial technician, electronics technician, field service representative, salesperson or computer technician. A degree holding student will also be looked at for quick promotions into supervision and management positions.

*To Achieve the Associate in Science*

Upon completion of the following courses with at least a ’C’ grade in each course, the student will be awarded an Industrial Technology, Electronics Options Associate in Science degree.

*To Transfer Coursework*

A minimum of 33 semester units in the major with a grade of ’C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

*Program Learning Outcomes*

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for employment in the electronics industry.
- demonstrate problem solving skills used in electrical design and product development.
- demonstrate a deep understanding of the core material required for certification in the electronics program.

Total Units: 33

**Emergency Medical Technology**

**Emergency Medical Technician-1 (EMT-1)**

The Emergency Medical Technician-1 (EMT-1) course consists of 152 hours, which includes 24 hours of emergency room/ambulance experience. The course prepares the student to perform basic emergency care as part of a mobile emergency team. It also provides the student with an understanding of the skills and assessment techniques needed to care for an ill or injured person in the pre-hospital setting. Upon successful completion of the course, students are eligible to take an examination for certification as an Emergency Medical Technician 1. EMT-1s are employed by ambulance companies and some private industries to provide emergency care in case of illness or injury. The course is required for ambulance personnel, the California Highway Patrol and many other first care providers. Students may later choose to become paramedics.

*Enrollment*

Enroll through the Bakersfield College Admission and Records Office. The course is offered each fall and spring two evenings per week for 16 weeks. This is a 7.5 unit course.

*Pre-admission Requirements*

1. Each student must possess a current American Heart Association BLS -Healthcare Provider card. (Bakersfield College offers a BLS course (MEDS B52).
2. Each student must be at least 18 years of age by the completion date of the course.
3. Mandatory physical examination/immunizations and fit testing must be completed 4 weeks after start of the course.
4. Completion of the 3 unit Medical Terminology Course (MEDS B60) is strongly recommended.

*Conditional Enrollment*

As a condition of enrollment in any Allied Health Program, students are required to submit to and pass a designated drug and alcohol screening, a background screening, and physical examination clearance (at the student’s expense). Please note the following:

- A history of felony conviction(s) or any bar, exclusion or other eligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
- If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the program. In the event that a student cannot obtain a background clearance, the space will be forfeited. Students who are found to be ineligible for clinical placement by the clinical agency after admission to the program shall be subject to dismissal from the program, as they will be unable to complete mandatory clinical rotations.
- A physical examination completed by a physician of the student’s choice is required after acceptance to the Program to demonstrate that a student meets the technical standards necessary to meet the Program objectives. Appropriate immunizations and/or vaccinations and fit testing are also required and are performed at the student’s expense.

**Licensure/Certification Eligibility**

Students with a misdemeanor and/or felony arrest conviction, either current or prior, may not receive certification or licensure from the State or County. Also, proof of citizenship (social security card and
engineers, science, and mathematics to formulate ideas and designs, and to determine standards, specifications, work orders and schedules so that projects can be economically beneficial to mankind. A Bachelor of Science in Engineering is required. Many engineers earn master’s or doctorate degrees.

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Engineering Associate in Science degree.

To Transfer Coursework
A minimum of 47 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- solve engineering related problems as related to student made projects and assignments.

Total Units: 47

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6a</td>
<td>Analytic Geometry &amp; Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6b</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6c</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6d</td>
<td>Ordinary Differential Equations</td>
<td>3.0</td>
</tr>
<tr>
<td>CHEM B1a</td>
<td>General Chemistry I</td>
<td>5.0</td>
</tr>
<tr>
<td>PHYS B4a</td>
<td>Mechanics &amp; Wave Motion</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4b</td>
<td>Heat, Electricity, &amp; Magnetism</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4c</td>
<td>Optics &amp; Modern Physics</td>
<td>4.0</td>
</tr>
<tr>
<td>ENGR B17</td>
<td>Introduction to Electric Circuits</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGR B36</td>
<td>Engineering Mechanics-Statics</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGR B45</td>
<td>Properties of Materials</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGR B19c</td>
<td>Introduction to Programming Concepts and</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>Methodologies for Engineers</td>
<td></td>
</tr>
<tr>
<td>ENGR B47**</td>
<td>Introduction to Engineering and Design</td>
<td>3.0</td>
</tr>
</tbody>
</table>

* May be used to also fulfill general education requirements.  
**Meets student development requirement.

Engineering Technology

Associate in Science
Cal Poly Pomona; California State University, Sacramento; California State University, Long Beach Engineering technologists and engineering technicians are members of a technical team that also includes scientists, engineers and craftsmen. The members of the technical team perform job functions that are complementary and sometimes overlapping. By virtue of their education, training and interests, engineering technologists and engineering technicians are usually differentiated as follows: An engineering technologist uses applied and basic training in mathematics, science, and engineering classes, engineering methods learned through classes and experience, and developed technical (hands-on) skills in direct support of engineering activities. A Bachelor of Science degree in Engineering Technology is required. An engineering technician operates in a support role to aid in design, production, manufacturing, operations, and maintenance.

Under professional direction, the engineering technician conducts tests, trouble shooting and analysis, and other similar projects, or carries out functions such as drafting, surveying, designing and
technical sales. An Associate in Science degree or a Certificate of Engineering Technology is required.

Bakersfield College offers courses required for two years of engineering technology education. Completion of these courses, called the engineering technology core prepares students either for transfer to the colleges and universities offering bachelor's degrees in Engineering Technology, or for completion of an Associate in Science degree in Engineering Technology. A beginning engineering technology student should have completed high school mathematics through intermediate algebra or MATH BD/MATH B70 at Bakersfield College, one year of high school drafting, and be eligible for ENGL B50.

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Engineering Technology Associate in Science degree.

To Transfer Coursework
A minimum of 40 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate proficiency in technical skills and safety principles required for employment as an engineering technologist.
• demonstrate problem solving skills used in engineering technology design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four year university degree program in engineering technology.

Total Units: 40

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR B47**</td>
<td>Introduction to Engineering and Design</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGR B45</td>
<td>Properties of Materials</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGR B24</td>
<td>Engineering Graphics and Descriptive Geometry</td>
<td>3.0</td>
</tr>
<tr>
<td>CHEM B2a*</td>
<td>Introductory General Chemistry</td>
<td>4.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>PHYS B2a*</td>
<td>General Physics-Mechanics and Heat</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2b</td>
<td>General Physics-Sound, Light, Electricity, Magnetism, Modern Physics</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6ab*</td>
<td>Analytic Geometry and Calculus</td>
<td>8.0</td>
</tr>
<tr>
<td>ENGR B19c</td>
<td>Introduction to Programming Concepts and Methodologies for Engineers</td>
<td>3.0</td>
</tr>
</tbody>
</table>

* May be used to also fulfill general education requirements
** Meets student development requirement

Electives — at least 6 units from the following
See counselor or advisor for specific courses in the following areas:
• Electronics/Electrical Technology
• Construction Technology
• Manufacturing Processes Technology
• Welding/Fabrication
• Industrial Drawing
• Graphics

English

Associate in Arts in English for Transfer
The Associate in Arts in English for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in English or similar major. The Associate in Arts in English for Transfer degree provides a study of literature and expository writing. English majors will be able to analyze literary work and will be able to demonstrate an understanding of and an ability to describe ways in which literature reflects historical, intellectual, and cultural contexts, as well as aesthetic tastes; English majors will be able to evaluate literature and expository and argumentative papers and essays through application of critical thinking techniques; and they will be able to write logical and coherent expository and argumentative papers, essays, summaries, and paraphrases using correctly the standard conventions of written English. Many employers value the writing and critical thinking skills acquired by English majors.

The following is required for the completion of all AA-T or AS-T degrees:
1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   • A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B1B</td>
<td>Intro to Types of Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B2</td>
<td>Advanced Composition and Critical Thinking</td>
<td>4.0</td>
</tr>
<tr>
<td>ENGL B3</td>
<td>Argumentative Writing and Critical Thinking Through Literature</td>
<td>4.0</td>
</tr>
<tr>
<td>ENGL B5A</td>
<td>Survey of English Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B5B</td>
<td>Survey of English Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B20A</td>
<td>Survey of World Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B30A</td>
<td>Survey of American Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B30B</td>
<td>Survey of American Literature</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List A (any two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B10</td>
<td>Introduction to Shakespeare</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B41A</td>
<td>Introduction to Creative Writing</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List B (3 or 6 units based on option chosen in Required Core)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B21</td>
<td>African-American Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B24</td>
<td>Latino/a Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B27</td>
<td>The Bible as Literature</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List C (3 units)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B1B</td>
<td>Intro to Types of Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B2</td>
<td>Advanced Composition and Critical Thinking</td>
<td>4.0</td>
</tr>
<tr>
<td>ENGL B3</td>
<td>Argumentative Writing and Critical Thinking Through Literature</td>
<td>4.0</td>
</tr>
</tbody>
</table>
Upon successful completion, the student will:

Program Learning Outcomes

- identify minimum qualifications and entry-level skills for firefighter hiring.
- describe the following elements:
  - application process.
  - written exam process.
  - physical agility exam.
  - oral interview.
  - chief’s interview.
  - background investigation.
  - fire fighter probationary process.
  - identify fire service history, culture, and diversity.
  - demonstrate the ability to analyze, appraise, and evaluate fire and emergency incidents and identify components of emergency management and fire fighter safety, including:
    - size-up.
    - report on conditions.
    - Incident Command System.
    - RECEO.
- 10 Standard Firefighting Orders.
- 18 Situations that shout “Watch Out.”
- common factors associated with injuries and line of duty deaths.

Total required units: 19

Fire Technology
Certificate of Achievement

This certificate was developed to assist students who desire to become a firefighter, or desire Fire Technology as a career. This certificate will aid existing firefighters in promoting/advancing through the ranks of engineer, captain, battalion chief, etc. The Bakersfield Fire Department requires an associate degree before a captain can take the promotional exam for battalion chief. This course of study will transfer to a four-year institution.

Note: FIRE B1 is a prerequisite and must be completed before taking other core fire technology courses. FIRE B1 can be waived if the student has completed either academy (B62 or B63) and B2 can be waived for students who have a minimum of two years continuous experience as a full-time paid firefighter. A GPA of at least 2.0 is required in the fire technology program. Of the 30 units required, a minimum of 12 units must be completed at Bakersfield College.

Bakersfield College’s Regional Fire Technology Academy (RFTA) was authorized by the California Fire Service Training and Education System in 1980, with programs of study leading to Certified Fire and Certified Fire Chief. RFTA sponsors many cooperative training programs with federal, state, and local fire protection agencies. Individuals may develop a program suitable to their career goals with the aid of a college counselor. Courses may lead to the achievement of specific career goals, immediate employment, an associate degree, or transfer credits that satisfy requirements for a bachelor’s degree in Fire Technology.

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Fire Technology Certificate of Achievement.

To Transfer Coursework

A minimum of 33.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- identify minimum qualifications and entry-level skills for firefighter hiring.
- describe the following elements:
  - application process.
  - written exam process.
  - physical agility exam.
  - oral interview.
  - chief’s interview.
  - background investigation.
  - fire fighter probationary process.
  - identify fire service history, culture, and diversity.
  - demonstrate the ability to analyze, appraise, and evaluate fire and emergency incidents and identify components of emergency management and fire fighter safety, including:
    - size-up.
    - report on conditions.
    - Incident Command System.
    - RECEO.

Total Units: 33.5-36.5

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B1</td>
<td>Fire Protection Organization</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B2</td>
<td>Personal Fire Safety &amp; Emergency Action</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B7</td>
<td>Building Construction for Fire Protection</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B3</td>
<td>Fire Command, Strategy, Tactics</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B51b</td>
<td>Fire Command 1A</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B4</td>
<td>Fire Behavior and Combustion</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B5</td>
<td>Fire Prevention Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B51d</td>
<td>Fire Prevention 1A</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51e</td>
<td>Fire Prevention 1B</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B6</td>
<td>Fire Protection Equipment &amp; Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B72h</td>
<td>Emergency Medical Technician 1</td>
<td>7.5</td>
</tr>
</tbody>
</table>

*ENGL B60 may be substituted for ENGL B50 or ENGL B1a for Fire Technology Certificate of Achievement only.

Required General Education Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B50*</td>
<td>Introduction to College Composition</td>
<td>4.0</td>
</tr>
<tr>
<td>ENGL B1a</td>
<td>Expository Composition</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B1a</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B1</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B2</td>
<td>Interpersonal Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B4</td>
<td>Persuasive Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B8</td>
<td>Small Group Communication</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Fire Technology
Associate in Arts

This degree program of study was developed to assist students who desire to become a firefighter, or desire Fire Technology as a career. This certificate will aid existing firefighters in promoting/advancing through the ranks of engineer, captain, battalion chief, etc. The Bakersfield Fire Department requires an associate degree before a captain can take the promotional exam for battalion chief. This course of study will transfer to a four-year institute.

Note: FIRE B1 is a prerequisite and must be completed before taking other core fire technology courses. FIRE B1 can be waived if the student has completed either academy (B62 or B63) and B2 can be waived for students who have a minimum of two years continuous experience as a full-time paid firefighter. A GPA of at least 2.0 is required in the certificate program. Of the 33.5-36.5 units required, a minimum of 12 units must be completed at Bakersfield College.

Note: FIRE B1 and B2 are waived for students who have a minimum of two years service as a paid, full-time firefighter. A GPA of at least 2.0 is required in the certificate program. Of the 33.5-36.5 units required, a minimum of 12 units must be completed at Bakersfield College.

Fire Technology
Certificate of Achievement

This certificate was developed to assist students who desire to become a firefighter, or desire Fire Technology as a career. This certificate will aid existing firefighters in promoting/advancing through the ranks of engineer, captain, battalion chief, etc. The Bakersfield Fire Department requires an associate degree before a captain can take the promotional exam for battalion chief. This course of study will transfer to a four-year institution.

Note: FIRE B1 is a prerequisite and must be completed before taking other core fire technology courses. FIRE B1 can be waived if the student has completed either academy (B62 or B63) and B2 can be waived for students who have a minimum of two years continuous experience as a full-time paid firefighter. A GPA of at least 2.0 is
required in the fire technology program. Of the 30 units required, a minimum of 12 units must be completed at Bakersfield College.

Bakersfield College’s Regional Fire Technology Academy (RFTA) was authorized by the California Fire Service Training and Education System in 1980, with programs of study leading to Certified Fire and Certified Fire Chief. RFTA sponsors many cooperative training programs with federal, state, and local fire protection agencies. Individuals may develop a program suitable to their career goals with the aid of a college counselor. Courses may lead to the achievement of specific career goals, immediate employment, an associate degree, or transfer credits that satisfy requirements for a bachelor’s degree in Fire Technology.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Fire Technology Associate in Arts degree.

To Transfer Coursework
A minimum of 25.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• identify minimum qualifications and entry-level skills for firefighting hiring.
• demonstrate the ability to analyze, appraise and evaluate fire and emergency incidents.
• identify and comprehend laws, regulations, codes and standards that influence fire department operations and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and ordinances, and firefighter health and safety.
• analyze the causes of fire, determine extinguishing agents and methods, differentiate the stages of the fire and fire development, and compare methods of heat transfer.
• identify and describe the apparatus used in the fire service, and the equipment and maintenance of fire apparatus and equipment.
• identify and describe common types of building construction and conditions associated with structural collapse and firefighter safety.
• differentiate between fire detection and fire suppression systems.

Total Units: 25.5

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B1</td>
<td>Fire Protection Organization</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B2</td>
<td>Personal Fire Safety &amp; Emergency Action</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B7</td>
<td>Building Construction for Fire Protection</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B3</td>
<td>Fire Command, Strategy, Tactics</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B4</td>
<td>Fire Behavior and Combustion</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B5</td>
<td>Fire Prevention</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B6</td>
<td>Fire Protection Equipment &amp; Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B72h</td>
<td>Emergency Medical Technician</td>
<td>7.5</td>
</tr>
</tbody>
</table>

Wildland Fire Technology Associate in Science
This degree is designed for people who desire to enter or enhance their career in a state or federal wildland firefighting agency. The course material is linked with the National Multi-Agency Coordinating Group certification process. Students are given the opportunity to take several didactic and practical tests administered throughout the program to attain both state and national level wildland competencies. The core curriculum includes certification material to secure the basic wildland red card needed for employment in a wildland fire agency. Additional course work is designed to meet or exceed the National Fire Protection Association’s 1051 Standard on Wildland Fire Fighter Professional Qualifications. The elective material is designed to allow a student to obtain some degree of specialization that may tailor a student’s education to qualify for supervisor positions in a wildland organization. Students may be placed in paramilitary and physically demanding environments designed to introduce the student to the job tasks and skills required to operate in the wildland fire services. Career opportunities include the Forest Service and the Bureau of Land Management. Discharged military service personnel can use their military service time towards their career in the Forest Service or the BLM.

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Wildland Fire Technology Associate in Science degree.

To Transfer Coursework
A minimum of 30 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• differentiate influences effecting fire behavior.
• determine safety zones and escape routes.
• establish suppression priorities.
• describe the role of the public information officer in overall incident organization.
• compose planning section written objectives.

Total Units: 30

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B25a</td>
<td>Wildland Fire Behavior</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B25b</td>
<td>Wildland Firefighter Safety &amp; Survival</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B25c</td>
<td>Wildland Fire Operations</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B25d</td>
<td>Wildland Public Information Officer,</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>Prevention, &amp; Investigation</td>
<td></td>
</tr>
<tr>
<td>FIRE B25e</td>
<td>Wildland Fire Logistics, Finance, &amp; Planning</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives — at least 15 units
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B26a</td>
<td>Initial Attack Incident Commander</td>
<td>1.0</td>
</tr>
<tr>
<td>FIRE B26b</td>
<td>Type 4 (ICT4) (S-200)</td>
<td>1.0</td>
</tr>
<tr>
<td>FIRE B26c</td>
<td>Interagency Incident Business Management</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>S-260</td>
<td></td>
</tr>
<tr>
<td>FIRE B26d</td>
<td>Fire Operations in the Wildland</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Urban Interface (S-215)</td>
<td></td>
</tr>
<tr>
<td>FIRE B26g</td>
<td>S-230 Crew Boss Single Resource</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE B26k</td>
<td>Field Observer (S-244)</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE B26m</td>
<td>Display Processor (S-245)</td>
<td>1.0</td>
</tr>
</tbody>
</table>
Program Learning Outcomes

Upon successful completion, the student will:

- define the components of the Incident Command System.
- describe the organizational structure used within large scale hazardous materials incidents, including basic duties and responsibilities of key division positions such as incident commander, safety officer, and public information officer.
- list the common types of high-rise hazards and concerns during fire suppression operations.
- describe the history of emergency management and planning for large scale disasters.
- list command tasks and responsibilities associated with emergency operations involving wild land fires.
- analyze and write policy statements that guide fire service organizations.
- develop general personnel administration practices consistent with local, state, and federal statutory and regulatory requirements.
- describe the ten steps of the planning process.
- identify the roles and responsibilities of management personnel within the organization.
- diagram a sample Unified Command structure for a major incident simulation.

Total Units: 22

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B50a</td>
<td>Fire Command 2-Command Tactics at Major Fires</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B50b</td>
<td>Fire Command 2b-Scene Management at Major Incidents</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B50c</td>
<td>Fire Command 2c-High-Rise Fire Tactics</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B50d</td>
<td>Fire Command 2d-Management of Large-Scale Disasters</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B50e</td>
<td>Fire Command 2e-Wildland Tactics</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B50f</td>
<td>Fire Management 2a-Organizational Development and Human Relations</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B50g</td>
<td>Fire Management 2b, Fire Service Financial</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B50h*</td>
<td>Fire Management 2c-Computer</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B50i</td>
<td>Application for the Fire Service</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B50j</td>
<td>Fire Management 2e, Ethics and the Challenge of Leadership</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B50k*</td>
<td>Fire Investigation</td>
<td>2.0</td>
</tr>
</tbody>
</table>

*Courses are offered from State Fire Marshall’s Office only.

Fire Officer Certification (NFPA Standard 1021) Certificate of Achievement

The Fire Officer Certification will prepare students currently employed in fire science occupations to qualify for promotions such as to Battalion Chief and higher. This training utilizes curricula developed by the California Fire Service Training and Education System (CFSTES), the training branch of the California State Fire Marshall and meets California Board of Fire Services standards. Certification as a CSFM Fire Officer provides in-service fire personnel the ability to promote and advance in their careers and may provide for educational pay incentives.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Fire Officer Certification (NFPA Standard 1021) Certificate of Achievement.

To Transfer Coursework
A minimum of 18 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- analyze and assess causes of firefighter fatalities and injuries and safety measures to protect personnel.
- demonstrate the ability to make decisions and communicate an action plan for a hazardous materials incident.
- analyze the relationship between fire prevention efforts and the reduction of life and property loss.
- apply codes to simulated fire prevention inspection violations.
- diagram the management cycle and define each element.
- identify Benjamin Bloom and Dr. Bloom’s contribution to educational development.
- define the four-step method of instruction and how it applies to technical lessons.
- identify state arson laws and legal aspects of fire scene investigation.
- list ICS positions and duties and describe the positions to the level of deputies.

Total Units: 18

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B51a</td>
<td>Fire Management 1a</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51b</td>
<td>Fire Command 1a</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51c</td>
<td>Fire Command 1b</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51d</td>
<td>Fire Prevention 1a</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51e</td>
<td>Fire Prevention 1b</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51f</td>
<td>Fire Investigation 1a</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51g</td>
<td>Training Instructor 1a</td>
<td>2.0</td>
</tr>
</tbody>
</table>
Fire Academy Job Skills Certificate
The Fire Academy Job Skills Certificate will prepare the student for entry level firefighter positions, and provides the minimum training required to become a reserve firefighter. It provides the basic educational and practical training essential for firefighting, including the advanced study of organizational procedures; forcible entry tools; protective breathing apparatus; inspection procedures; fire protection equipment and systems; wildland fire control; fire behavior; and petroleum fire procedures.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate written and verbal communication skills required for entry-level firefighter positions.
- analyze emergency and hazardous conditions that are inherent to the firefighting profession.

Total Units: 12.5

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B62</td>
<td>Fire Fighter I Academy</td>
<td>12.5</td>
</tr>
</tbody>
</table>

Wildland Firefighting Job Skills Certificate
The Wildland Firefighting Job Skills Certificate will prepare students for a career in wildland firefighting, to work on the fire ground, and be red carded. This job skills certificate is required for the student to apply for a wildland firefighter position. The certificate will provide students with a basic understanding of wildland firefighting principles, tactics, organization, and fireline safety. It includes training in the identification and operation of wildland fire tools and equipment, water-handling equipment, and fireline construction practices.

To Achieve the Job Skills Certificate
Upon completion of the following courses with a grade of ‘C’ or better in each course, students will be awarded a Wildland Firefighting Job Skills Certificate.

Program Learning Outcomes
Upon successful completion, the student will:
- explain and demonstrate an understanding of wildland fire service organizations.
- describe and explain the environmental factors of fire behavior which affect a wildfire.
- demonstrate an understanding of important safety practices involved in wildland firefighting.
- identify and operate common wildland firefighting hand tools and equipment.
- explain and demonstrate how to construct a fireline.
- analyze information on water-handling equipment.

Total Units: 3.0

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B71A</td>
<td>Seasonal Firefighter Basic Training</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B71B</td>
<td>Seasonal Firefighter Basic Training</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Fire Technology EMT Job Skills Certificate
Designed to certify students as California State Emergency Medical Technicians and gain employment as a Firefighter or ambulance driver or ambulance attendant or law enforcement officer. After successful completion of this course, students will be authorized to take the Kern County EMS, California State Fire Marshal and or the National Registry EMT examinations. Topics discussed include pre-hospital care terminology, cardiovascular emergencies, pre-hospital childbirth, communicable disease, extrication tools and equipment, automatic external defibrillation and an understanding of the emergency medical system. Course content is based on the guidelines and authority of Title 22, Division 9 of the California Code of Regulations, as well as the U.S. Department of Transportation Emergency Medical Technician-Based Standard National Curriculum, National Registry EMT Examinations. Students must be 18 years of age and have a current CPR card (Title 22, Division 9 of the California Code of Regulations). Students are responsible for paying any certification fees.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate the ability to comprehend, apply, and evaluate the clinical information relative to his/her role as an entry level EMT-1.
- demonstrate technical proficiency in all skills necessary to fulfill the role of the entry level EMT-1.
- demonstrate personal behaviors consistent with professional and employer expectations for the entry level EMT-1.

Total Units: 7.5

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B72H</td>
<td>Emergency Medical Technician</td>
<td>7.5</td>
</tr>
</tbody>
</table>

Foods/Nutrition
Child Nutrition Management Certificate of Achievement
Program emphasizes quality food production, production records, nutrition standards and student service in child nutrition programs including public and private schools, child-care centers and day-care centers.

A Sanitation Certificate such as ServSafe or equivalent is required for this certificate.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Nutrition Management Certificate of Achievement.

To Transfer Coursework
A minimum of 25.5-31 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- practice proper basic principles of food safety (sanitation) and their application to food service operations and procedures.
- practice the principles and methods of food preparation emphasizing use of standardized recipes, industry production standards, and development of work skills.
Upon successful completion, the student will:

- perform dining room service function using a variety of types of service and demonstrate and understanding of quality customer service.
- have an understanding of a supervisor's role and responsibilities in managing a food service operation.
- maximize nutritional retention in food preparation and storage and application of nutritional principles in menu planning.
- demonstrate basic baking principles and to apply fundamentals to the preparation of a variety of products.

Total Units: 24.5

<table>
<thead>
<tr>
<th>Required Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
</tr>
<tr>
<td>FDSV B50</td>
</tr>
<tr>
<td>FDSV B52</td>
</tr>
<tr>
<td>FDSV B55a</td>
</tr>
<tr>
<td>FDSV B55c</td>
</tr>
<tr>
<td>NUTR B10</td>
</tr>
<tr>
<td>WEXP B248</td>
</tr>
<tr>
<td>ENGL</td>
</tr>
<tr>
<td>COMP</td>
</tr>
</tbody>
</table>

Electives — for a total of at least 25.5 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDSV B55a</td>
<td>Foodservice Production Theory I</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55b</td>
<td>Foodservice Production Theory II</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55c</td>
<td>Foodservice Production Laboratory I</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55d</td>
<td>Foodservice Production Laboratory II</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B59</td>
<td>Foodservice Production Management</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Child Nutrition Program Management Option
Associate in Science

Program emphasizes quality food production, production records, nutrition standards and student service in child nutrition programs including public and private schools, childcare centers and day care centers. A Sanitation Certificate such as ServSafe or equivalent is required for the associate degree.

To Achieve the Associate in Science
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Child Nutrition Program Associate in Science degree.

To Transfer Coursework
A minimum of 24.5 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- perform dining room service function using a variety of types of service and demonstrate and understanding of quality customer service.
- have an understanding of a supervisor's role and responsibilities in managing a food service operation.
- maximize nutritional retention in food preparation and storage and application of nutritional principles in menu planning.
- demonstrate basic baking principles and to apply fundamentals to the preparation of a variety of products.

Total Units: 24.5
### Required Courses (including completion of the ServSafe exam)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDSV B50</td>
<td>Introduction to the Foodservice Industry</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B51</td>
<td>Food &amp; Nutrition Orientation</td>
<td>0.5</td>
</tr>
<tr>
<td>FDSV B52</td>
<td>Foodservice Sanitation and Safety</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55a</td>
<td>Foodservice Production Theory I</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55b</td>
<td>Foodservice Production Theory II</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55c</td>
<td>Foodservice Production Laboratory I</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55d</td>
<td>Foodservice Production Laboratory II</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55f</td>
<td>Fundamentals of Baking</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55g</td>
<td>Food and Nutrition Internship</td>
<td>1.0</td>
</tr>
<tr>
<td>FDSV B59</td>
<td>Food Service Production Management</td>
<td>3.0</td>
</tr>
<tr>
<td>NUTR B10</td>
<td>Elementary Nutrition</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>2.0</td>
</tr>
</tbody>
</table>

### Dietetic Services Supervisor Program Certificate of Achievement

Program provides training for students planning employment in the food service department of a health care operation. Courses in this program meet State of California Department of Health Services certification requirements. Consult with a member of the Foods and Nutrition Program staff before scheduling courses in the program.

To Transfer Coursework

A minimum of 18.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

### Program Learning Outcomes

Upon successful completion, the student will:

- locate the state and federal laws and regulations applicable to food service operations in health care (California Code of Regulations, Title 22 Federal Code of Regulations, Business and Professions Code of Registered Dietitians and Dietetic Technicians Registered, FDA Food Code, etc.).
- utilizing the above references laws, and in conjunction with the registered dietitian, determine compliance with regulations and acceptable standards of care.
- review, with a registered dietitian, a facility’s policies and procedures to ensure that they are in compliance with regulations and standards of practice.
- locate diet manuals and show ability to use them by making menu substitutions to meet the nutritional needs of residents/patients in accordance with standard of care.
- help registered dietitian ensure that menus and standardized recipes are followed by food service staff. Help develop standardized menus.
- ensure that food is prepared and served by methods that conserve nutritive value, flavor, and appearance. Ensure that food is prepared to meet individual texture and nutrient needs and that substitutions are of similar nutritive value.
- ensure that residents/patients receive and consume foods as prescribed by the physician. Document diet prescriptions, food preferences, and the possible need for texture modification and/or assistance during meal times by maintaining and updating card profiles.
- protect food in all phases of preparation. Ensure that food is inspected for quality upon receiving, then stored, prepared, and served under sanitary conditions to prevent food borne illness. Sanitation oversight includes all food service department areas and components such as storage.
rooms, refrigerators/freezers, food preparation, and service equipment and surfaces, tray lines, and carts.

- assist with day to day operations such as:
  - food forecasting, ordering, storage, preparation, and service.
  - employee staffing schedules.
  - employee health and safety programs.
  - labor relations.
  - employee orientation and ongoing planned staff development.

**Total Units: 18.5**

**Required Courses (including completion of the ServSafe exam)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDSV B50</td>
<td>Introduction to the Foodservice Industry</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B52</td>
<td>Foodservice Sanitation and Safety</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55a</td>
<td>Foodservice Production Theory I</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55c</td>
<td>Foodservice Production Laboratory I</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B59</td>
<td>Foodservice Production Management</td>
<td>3.0</td>
</tr>
<tr>
<td>NUTR B10</td>
<td>Elementary Nutrition</td>
<td>3.0</td>
</tr>
<tr>
<td>NUTR B50</td>
<td>Modified Diets</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B64a</td>
<td>Dietetic Service Supervisor Practicum</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Foodservice Management Option Associate in Science**

A sanitation certificate such as ServSafe or equivalent is required for this associate degree.

**To Achieve the Associate in Science**

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Foodservice Management Option Associate in Science degree.

**To Transfer Coursework**

A minimum of 29.5 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- practice proper basic principles of food safety (sanitation) and their application to food service operations and procedures.
- practice the principles and methods of food preparation emphasizing use of standardized recipes, industry production standards, and development of work skills.
- perform dining room service function using a variety of types of service and demonstrate an understanding of quality customer service.
- maximize nutrient retention in food preparation and storage and application of nutritional principles and to apply fundamentals to the preparation of a variety of products.
- demonstrate basic baking principles and to apply fundamentals to the preparation of a variety of products.
- have an understanding of a supervisor's role and responsibilities in managing a food service operation.

**Total Units: 29.5**

**Required Courses (including completion of the ServSafe exam)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDSV B51</td>
<td>Food &amp; Nutrition Orientation</td>
<td>0.5</td>
</tr>
<tr>
<td>FDSV B52</td>
<td>Foodservice Sanitation and Safety</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55a</td>
<td>Foodservice Production Theory I</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55b</td>
<td>Foodservice Production Theory II</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55c</td>
<td>Foodservice Production Laboratory I</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55e</td>
<td>Advanced Foodservice Practicum</td>
<td>3.0</td>
</tr>
<tr>
<td>FDSV B55i</td>
<td>Food and Nutrition Internship</td>
<td>1.0</td>
</tr>
<tr>
<td>FDSV B59</td>
<td>Foodservice Production Management</td>
<td>3.0</td>
</tr>
<tr>
<td>NUTR B10</td>
<td>Elementary Nutrition</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>2.0</td>
</tr>
<tr>
<td>BSAD B53a</td>
<td>Introduction to Accounting I</td>
<td>3.0</td>
</tr>
<tr>
<td>SPST B201L</td>
<td>Special Projects and Studies</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Geology**

**Associate in Science in Geology for Transfer**

The Associate in Science in Geology Degree for Transfer is designed to provide students a clear pathway to the CSU Geology major and completion of the Geology baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units.

The Associate in Science in Geology Degree for Transfer provides a path to students who wish to transfer to a CSU in the field of geology and serves the diverse needs of students who wish to obtain a broad and an in-depth understanding of the geological sciences. Additionally, the Associate of Science in Geology Degree for Transfer allows students to learn the fundamental principles and practices of geology in order to create a solid foundation for their future personal, academic, or vocational endeavors.

The Associate of Science in Geology Degree for Transfer also provides solid preparation that is appropriate for a variety of scientific disciplines.

The major in geology is appropriate for interested students who desire to be employed within the local petroleum industry working as a geology technician or seeking a solid science background for the teaching profession. The major is designed to provide students with a strong general education in math and science, introduction to physical and historical geology, as well as a general introduction to basic engineering skills.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtaining of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL B10</td>
<td>Introduction to Geology</td>
<td>3.0</td>
</tr>
<tr>
<td>GEOL B10L</td>
<td>Introduction to Geology Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>GEOL B11</td>
<td>Historical Geology</td>
<td>3.0</td>
</tr>
<tr>
<td>GEOL B11L</td>
<td>Historical Geology Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>CHEM B1a</td>
<td>General Chemistry I</td>
<td>5.0</td>
</tr>
</tbody>
</table>
Civilizations to 1600  3.0
HIST B1   World History from the Origins of
Course Number Title                  Units

Group 1
List B (one course from each group)

Total required units  26

History

Associate in Arts in History for Transfer

The Associate in Arts in History for Transfer Degree is designed to provide students a clear transfer pathway to the CSU history major and completion of the history baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. Historians analyze the events and processes of the past, both to gain more understanding of human nature, in any place and at any time, and to explain the distinctive dynamics of particular societies, usually in regional and chronological contexts. Historical study is an important part of the liberal arts program and the development of critical thinking skills. Most careers in history require education beyond the associate degree and some require a graduate degree. The study of history can serve as preparation for graduate study in education, law, business, government and journalism. Many employers value the writing and critical thinking skills acquired by History majors. Successful completion of the Associate in Arts in History for Transfer Degree guarantees the student acceptance to a local California State University to pursue a baccalaureate degree.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   • A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST B17A</td>
<td>History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B17B</td>
<td>History of the United States since 1870</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List A (any two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST B1</td>
<td>World History from the Origins of Civilizations to 1500</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td>HIST B4A</td>
<td>European Civilization</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>-and-</td>
<td></td>
</tr>
<tr>
<td>HIST B2</td>
<td>History of World Since 1650</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td>HIST B4B</td>
<td>European Civilization</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List B (one course from each group)

Group 1

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST B1</td>
<td>World History from the Origins of Civilizations to 1600</td>
<td>3.0</td>
</tr>
</tbody>
</table>

HIST B2   History of World Since 1650  3.0
HIST B20A  African American History of the United States  3.0
HIST B20B  African American History / U.S.  3.0
HIST B30A  Early Chicano History  3.0
HIST B30B  History of Chicanos in the Southwest  3.0
HIST B33  Latin American History  3.0

Group 2

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON B2</td>
<td>Principles of Economics-Macro</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B18</td>
<td>History of California</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS B1</td>
<td>American Government: National, State and Local</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units  18

Human Services

Human Services Job Skills Certificate

The Human Service Job Skills Certificate emphasizes classroom instruction as well as hands-on-experience through internships with community human services agencies. The field of human services is very broad. It is concerned with meeting human needs and improving the overall quality of people’s lives. The field is interdisciplinary, meaning that knowledge from a variety of other fields of study is applied to the overall goal of helping people.

To Achieve the Job Skills Certificate

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Human Services Job Skills Certificate.

To Transfer Coursework

A minimum of 15 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- Demonstrate an understanding of the perspectives, theories, methods and core concepts of the behavioral sciences.
- Explain the major problems and issues in the disciplines in their contemporary, historical and geographical contexts.
- Demonstrate an understanding of an ability to describe the contributions and perspectives of women, ethnic and other minorities and Western and non-Western peoples.

Total Units: 15

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B50</td>
<td>Introduction to College Composition</td>
<td>4.0</td>
</tr>
<tr>
<td>HMSV B40</td>
<td>Introduction to Human Services</td>
<td>3.0</td>
</tr>
<tr>
<td>HMSV B5</td>
<td>Human Services Internship</td>
<td>2.0</td>
</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Human Services Associate in Arts

The major in human services provides the student with an academic background for entry-level positions in various human services agencies. It also prepares the student for upper-division work in human services and other behavioral sciences. The field is interdisciplinary with the overall career goal of helping people.
To Achieve the Associate in Arts
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Human Services Associate in Arts degree.

To Transfer Coursework
A minimum of 19 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will
• Demonstrate an understanding of the perspectives, theories, methods and core concepts of the behavioral sciences.
• Explain the major problems and issues in the disciplines in their contemporary, historical and geographical contexts.
• Demonstrate an understanding of an ability to describe the contributions and perspectives of women, ethnic and other minorities and Western and non-Western peoples.

Total Units: 19

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMSV B40</td>
<td>Introduction to Human Services</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B45</td>
<td>Minority Relations</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B1a</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B40</td>
<td>Introduction to Lifespan Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth Through Adolescence</td>
<td>3.0</td>
</tr>
</tbody>
</table>

In addition, a total of four units of HMSV B5 is required. Two units are permitted in a given semester. All units must be completed in agencies where assignment and supervision is approved by the Program Coordinator. Students wishing to enroll in HMSV B5 must have completed HMSV B40.

Course Number | Title                              | Units |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HMSV B5</td>
<td>Human Services Internship</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Industrial Drawing

AutoCAD

Job Skills Certificate
This certificate covers the principles of industrial drawing/CAD with the emphasis on using the AutoCAD software package from basic 2D principles through 3D solid modeling to obtain graphic solutions, design refinements, modifications and delineations. Software customization is also emphasized. Career opportunities include drafter, CAD operator, engineering tech, CAD manager, and architecture CAD operator.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an AutoCAD Job Skills Certificate.

To Transfer Coursework
A minimum of 8 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

Total Units: 8

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDR B20a</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B20b</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Industrial Drawing

Associate in Arts
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Industrial Drawing Associate in Arts degree.

To Transfer Coursework
A minimum of 20 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.

Total Units: 20

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B20a</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B50</td>
<td>Process Piping</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B51</td>
<td>Electrical Design</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B52</td>
<td>Geographic Information Systems (GIS)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B40</td>
<td>Parametric Modeling Fundamentals</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives — at least 3 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH B16</td>
<td>Digital Tools for Graphics Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B20b</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Industrial Technology, Industrial Drawing Option

Associate in Science
Students who complete the Industrial Technology degree with the Industrial Drawing option will acquire information, skills, and training in a variety of fields that will enable them to apply their knowledge in an array of situations, including engineering and manufacturing settings. Students will acquire the practical knowledge and skills to successfully enter industry employment or to advance within their organization. Career opportunities include architecture, engineering, industrial technology draftsman, CAD technician, engineering technician, CAD manager, and detailer.
To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Industrial Technology, Industrial Drawing Option Associate in Science degree.

To Transfer Coursework
A minimum of 31 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four year university degree program in industrial technology.

Total Units: 31

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDR B20a</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B20b</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B40</td>
<td>Parametric Modeling Fundamentals</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B50</td>
<td>Process Piping</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B70</td>
<td>Intermediate Algebra</td>
<td>5.0</td>
</tr>
<tr>
<td>INDR B51</td>
<td>Electrical Design</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR B24</td>
<td>Engineering Graphics and Descriptive Geometry</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B1a</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1b</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Suggested Program for Industrial Technology Industrial Drawing Option Associate in Science

First Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B70</td>
<td>Intermediate Algebra</td>
<td>5.0</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B20a</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B70</td>
<td>Intermediate Algebra</td>
<td>5.0</td>
</tr>
<tr>
<td>INDR B50</td>
<td>Process Piping</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B52</td>
<td>Geographic Information Systems (GIS)</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Third Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B50</td>
<td>Process Piping</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B52</td>
<td>Geographic Information Systems (GIS)</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Fourth Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B40</td>
<td>Parametric Modeling Fundamentals</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Industrial Technology
Industrial Technology (General) Associate in Science

Students who complete the Industrial Technology degree with the Industrial Drawing option will acquire information, skills, and training in a variety of fields that will enable them to apply their knowledge in an array of situations, including engineering and manufacturing settings. Students will acquire the practical knowledge and skills to successfully enter industry employment or to advance within their organization. Career opportunities include architecture, engineering, and Industrial Technology, draftsman, CAD Technician, Engineering Technician, CAD Manager, and detailer.

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Industrial Technology (General) Associate in Science degree.

To Transfer Coursework
A minimum of 22 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four year university degree program in industrial technology.

Total Units: 22

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFGT B1ab</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B1</td>
<td>Basic Electronics (DC and AC)</td>
<td>4.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDR B20a</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B20b</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B30</td>
<td>Computers and Engineering Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B1a</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1b</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Electives - at least 3 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B20b</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B2CNC</td>
<td>Lathe Programming &amp; Operation</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B1ab</td>
<td>Introduction to Automotive Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>CNST B1</td>
<td>Introduction to Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
</tbody>
</table>
### Associate in Arts in Journalism for Transfer

The Associate in Arts in Journalism for Transfer degree is intended for those transfer-directed students who plan to complete an AA in Journalism because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate of Arts in Journalism for Transfer, students must complete 60 required semester units of CSU-transferable coursework which includes CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate of Arts in Journalism for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system.

Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

#### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRN1 B1*</td>
<td>Media and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>JRN1 B2</td>
<td>Beginning Reporting</td>
<td>3.0</td>
</tr>
<tr>
<td>JRN1 B27a</td>
<td>Newspaper Production for Reporters</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### List A (any one of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRN1 B15</td>
<td>Press Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>JRN1 B16</td>
<td>Multimedia Reporting</td>
<td>3.0</td>
</tr>
<tr>
<td>JRN1 B26</td>
<td>Newspaper Production/Editors</td>
<td>4.0</td>
</tr>
</tbody>
</table>

#### List A (any two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B17</td>
<td>Black and White Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B5*</td>
<td>Rhetoric &amp; Argumentation</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B1*</td>
<td>Principles of Economics-Micro</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B2*</td>
<td>Principles of Economics-Macro</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B22</td>
<td>Introduction to Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>POLS B2*</td>
<td>Comparative Government</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 18-20

### Associate in Arts in Kinesiology for Transfer

The Associate in Arts in Kinesiology for Transfer (AA-T) is intended for all students who plan to complete an Associate in Arts in Kinesiology. This degree is especially valuable for those students planning on completing a bachelor's degree in Kinesiology at a CSU campus because the Associate in Arts in Kinesiology for Transfer guarantees admission to the CSU system (but not to a particular campus or major). In order to earn Associate in Arts in Kinesiology for Transfer, the students must complete 60 required semester units of CSU-transferable coursework which includes the CSU General Education Breadth or IGETC General Education requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Kinesiology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

#### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B32</td>
<td>Human Anatomy and Physiology I</td>
<td>4.0</td>
</tr>
<tr>
<td>BIOL B33</td>
<td>Human Anatomy and Physiology II</td>
<td>4.0</td>
</tr>
<tr>
<td>PHED B42</td>
<td>Introduction to Kinesiology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### Movement Based Courses (any three of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED B25B</td>
<td>Aquatics: Beginning Swimming</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B3ADP</td>
<td>Adaptive Physical Education</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6A</td>
<td>Coed Activity/Archery</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6BB</td>
<td>Coed Team and Individual Activities:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basketball</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6BLB</td>
<td>Coed Team and Individual Activities:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Beginning Ballet</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6fx</td>
<td>Coed Team and Individual Activities:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fitness Center</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6G</td>
<td>Coed Team and Individual Activities:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Golf</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6jd</td>
<td>Coed Team and Individual Activities:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jazz Dance</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6sC</td>
<td>Coed Team and Individual Activities:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Soccer</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6T</td>
<td>Coed Team and Individual Activities:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tennis</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6wt</td>
<td>Coed Team and Individual Activities:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weight Training</td>
<td>1.0</td>
</tr>
</tbody>
</table>
**Liberal Arts**

Please refer to the general education student learning outcomes in the Graduation and General Education section of catalog.

**Liberal Arts Associate in Arts**

The Liberal Arts major at Bakersfield College is designed to provide students with the opportunity to earn an associate in arts degree in a broad area of study. The major is interdisciplinary and allows students to develop a variety of skills transferable to numerous occupations and fields of study. The major is intended to provide general knowledge and to develop the intellectual capacities, such as reasoning and judgment, as opposed to professional or vocational skills. This major is suitable for transfer students preparing for upper division study in a variety of fields in the liberal arts and for those students undecided as to major or further study. Students may satisfy requirements for the Liberal Arts major by completing one of the two options listed below. With any option selected, students must also complete all graduation requirements for Bakersfield College including a total of 60 degree applicable units with an overall grade point average of 2.0.

**To Achieve the Associate in arts**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Liberal Arts Associate in Arts degree.

**To Transfer Coursework**

A minimum of 18 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Select one of the following options:

1. **Option One.**
   - Complete the Intersegmental General Education Transfer Curriculum (IGETC) with a C average.
   - Complete at least 18 units from recommended lower division major preparation for the major at the approved university of your choice with a C grade in each course.
   - UC transferable elective units, if needed, to total 60 units.

2. **Option Two.**
   - Complete CSU General Education Breadth with a C average.
   - Complete at least 18 units from recommended lower division major preparation for the major at the approved university of your choice with a C grade in each course.

Approved university of your choice, with a C grade in each course.

**List A (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B22</td>
<td>Elementary Probability and Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B11</td>
<td>Introduction to General, Organic, and Biochemistry</td>
<td>5.0</td>
</tr>
<tr>
<td>PHYS B2A</td>
<td>General Physics-Mechanics and Heat</td>
<td>4.0</td>
</tr>
<tr>
<td>PHED B36</td>
<td>First Aid and CPR</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 21-24

**Manufacturing/Machine Technology**

**Basic Machine Tool Operations-Lathe, Mill Job Skills Certificate**

This certificate covers the principles of machine tool technology to include the use of precision measuring, drilling machines, saws, lathes and milling machines. Career opportunities include machinist.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Basic Machine Tool Operations - Lathe, Mill Job Skills Certificate.

**To Transfer Coursework**

A minimum of 3 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university program or for certification in the department programs.

**Total Units: 3**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFGT B1ab</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Computer Numerical Control Programming Job Skills Certificate**

This certificate covers the principles of set-up, operation and programming of computer numerical control (CNC) lathes and milling machines. Career opportunities include CNC Machinist CNC Programmer and CNC Operator.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Computer Numerical Control Programming Job Skills Certificate.

**To Transfer Coursework**

A minimum of 6 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university program or for certification in the department programs.
### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFGT B2</td>
<td>CNC Lath Programming &amp; Operation</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B3</td>
<td>CNC Mill Programming</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Manufacturing Technology Certificate of Achievement

This program teaches students the spectrum of tools utilized in the manufacturing industry: manual machining, computer-controlled machining (CNC), welding, computer-aided design, and basic math.

#### To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Manufacturing Technology Certificate of Achievement.

#### To Transfer Coursework

A minimum of 31 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

### Program Learning Outcomes

Upon successful completion, the student will:
- demonstrate proficiency in technical skills and safety principles required for employment in the manufacturing industry.
- demonstrate problem solving skills used in manufacturing design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university program or for certification in the manufacturing program.

### Total Units: 31-33

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFGT B1ab</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B2</td>
<td>CNC Lath Programming &amp; Operation</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B3</td>
<td>CNC Mill Programming</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>TECM B52</td>
<td>Industrial Math and Quality Control</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B60</td>
<td>Beginning Algebra</td>
<td>5.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B1a</td>
<td>Introduction to Oxygen Acetylene Welding</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1b</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B54a</td>
<td>Blueprint Reading for Welders and Machinists</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td><strong>Electives — at least 7 units</strong></td>
<td></td>
</tr>
<tr>
<td>INDR B20a</td>
<td>Computer Aided Drafting and Design</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B40</td>
<td>Parametric Modeling Fundamentals</td>
<td>3.0</td>
</tr>
<tr>
<td>INDT B273</td>
<td>Special Problems in Tool Metal Working</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B74a</td>
<td>Introduction to GMAW (Gas Metal Arc Welding)</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B74b</td>
<td>Introduction to Gas Tungsten Arc Welding</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td><strong>Electives — at least 3 units</strong></td>
<td></td>
</tr>
<tr>
<td>INDR B20a</td>
<td>Computer Aided Drafting and Design</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B40</td>
<td>Parametric Modeling Fundamentals</td>
<td>3.0</td>
</tr>
<tr>
<td>INDT B273</td>
<td>Special Problems in Tool Metal Working</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B53ab</td>
<td>Shielded Metal Arc Welding</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B74a</td>
<td>Introduction to GMAW (Gas Metal Arc Welding)</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B74b</td>
<td>Introduction to Gas Tungsten Arc Welding</td>
<td>2.0</td>
</tr>
</tbody>
</table>

### Mathematics

#### Associate of Science in Mathematics for Transfer

Associate of Science in Mathematics for Transfer is intended for all students who plan to complete an AS in Mathematics. This degree is especially valuable for those students planning on completing
a bachelor’s degree in Mathematics at a CSU campus because the Associate of Science in Mathematics for Transfer guarantees admission to the CSU system (but not to a particular campus or major).

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The attainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6C</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
</tbody>
</table>

#### List A

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6D</td>
<td>Ordinary Differential Equations</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B6E</td>
<td>Elementary Linear Algebra</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 18

### Music

**Associate in Arts in Music for Transfer**

Students who plan to major or minor in music should commit themselves to the highest possible level of proficiency in theory, piano, literature, group performance, and applied (individual) instruction in their performance area. Students should take the required courses in music and complete courses in general education for the transfer college of their choice. Elective courses will both enrich the student’s background and balance weak areas of knowledge for later academic growth.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The attainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC B2</td>
<td>Basic Elements of Music</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B4A</td>
<td>Elementary Theory</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B4B</td>
<td>Elementary Theory</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Performance Ensemble

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC B10A</td>
<td>Concert Band (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B12A</td>
<td>College Orchestra (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B13A</td>
<td>Jazz Ensemble (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B14A</td>
<td>College Choir (4 enrollments of 1.5 units each)</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Total required units: 23-25

### Nursing

**Associate in Science**

The mission of the Bakersfield College Associate Degree Nursing Program is to prepare entry-level registered nurses as providers and managers of care across the health/illness continuum and as members within the profession. Graduate nurses will collaborate with members of the health care team, be effective communicators, be politically aware, and demonstrate a commitment to life long learning.

The study of nursing is the application of knowledge from the arts and sciences. The purpose of the Bakersfield College Associate Degree Program is to provide the foundation for students to become competent registered nurses. The ADN Program respects the individuality of students and recognizes that each student has different educational, experiential, cultural, spiritual, economic and social backgrounds and a unique support system. The aim of the Program is to provide a positive, innovative learning model that fosters the development of critical thinking and problem solving skills so that the graduate nurse is equipped to deliver care to a culturally diverse population in a variety of healthcare settings.

To Achieve the Associate in Science

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Nursing Associate in Arts degree.

#### To Transfer Coursework

A minimum of 41 semester units in the major with a grade of ‘C’ or better.

### Program Learning Outcomes

Upon successful completion, the student will:

1. demonstrate the standards of competent performance as defined by the California Board of Registered Nursing. The successful graduate will be considered competent when he/she consistently demonstrates the ability to transfer knowledge, scientific knowledge from social, biological, and physical sciences in applying the nursing process as follows:
   - formulates a nursing diagnosis through observation of the client’s physical condition and behavior, and through interpretation of information obtained from the client and others, including the health team.
   - formulates a care plan, in collaboration with the client, which ensures that direct and indirect nursing care services provide for the client’s safety, comfort,
hygiene, and protection, and for disease prevention and restorative measures.

- performs skills essential to the kind of nursing action to be taken, explains the health treatment to the client and family and teaches the client and family how to care for the client's health needs.
- delegates tasks to subordinates based on the legal scopes of practice of the subordinates and on the preparation and capability needed in the tasks to be delegated, and effectively supervises nursing care being given by subordinates.
- evaluates the effectiveness of the care plan through observation of the client's physical condition and behavior, signs and symptoms of illness, and reactions to treatment and through communication with the client and health team members, and modifies the plan as needed.
- acts as the client's advocate, as circumstances require, by initiating action to improve health care or to change decisions or activities which are against the interests or wishes of the client, and by giving the client the opportunity to make informed decisions about health care before it is provided.

(Title 16, California Code of Regulations, Division 14 – Board of Registered Nursing Article 4, Section 1443.5)

2. perform Nursing practice, which includes those functions, including basic health care, that help people cope with difficulties in daily living that are associated with their actual or potential health or illness problems or the treatment thereof, including all of the following:
- direct and indirect patient care services that ensure the safety, comfort, personal hygiene, and protection of patients; and the performance of disease prevention and restorative measures. (Business and Professions Code, Division 2, Chapter 6, Section 2725)
- direct and indirect patient care services, including, but not limited to, the administration of medications and therapeutic agents, necessary to implement a treatment, disease prevention, or rehabilitative regimen ordered by and within the scope of licensure of a physician, dentist, podiatrist, or clinical psychologist, as defined by Section 1316.5 of the Health and Safety Code.
- the performance of skin tests, immunization techniques, and the withdrawal of human blood from veins and arteries.
- observation of signs and symptoms of illness, reactions to treatment, general behavior, or general physical condition, and:
- determination of whether the signs, symptoms, reactions, behavior, or general appearance exhibit abnormal characteristics.
- implementation, based on observed abnormalities, of appropriate reporting, or referral, or standardized procedures, or changes in treatment regimen in accordance with standardized procedures, or the initiation of emergency procedures.

Prerequisite Requirements
All prerequisites must be completed with a 'C' grade or higher:
- ENGL B1A (Expository Composition), three units at Bakersfield College or equivalent course at another accredited college.
- MATH BD/B70 (Intermediate Algebra) or higher; three units at Bakersfield College or an equivalent course at another accredited college
- CHEM B11 (Introduction to General, Organic and Biochemistry) or CHEM B2A (Introduction to General Chemistry) or CHEM B1A (General Chemistry) at Bakersfield College or an equivalent Chemistry course of three to five units from another accredited college.
- BIOL B16 (General Microbiology) five units at Bakersfield College or equivalent course at another accredited college.
- BIOL B32 (Anatomy & Physiology I) four units at Bakersfield College or equivalent course at another accredited college.
- BIOL B33 (Anatomy & Physiology II) four units at Bakersfield College or equivalent course at another accredited college.
- (Anatomy and Physiology requirement can also be met with Human Anatomy (minimum of four units) AND Human Physiology (minimum of four units) of equivalent courses from another accredited college.

General education courses are required to graduate from Bakersfield College with an Associate Degree in Nursing. It is suggested that most of these courses be completed prior to beginning the Nursing Program.

- Social Science (three units) – any course listed in Area D3 of the Bakersfield College General Education Pattern
- Arts, Literature, Philosophy, and Foreign Language (three units) – any course as listed in Area C of the Bakersfield College General Education Pattern
- COMM B1*
- ANTHB2* or SOC B1*
- PSYC B1A*
- Physical Education (one unit) required from PHED courses numbered from B2-B33.
- HLED-Health Education (three units) is waived for RN students
- NURS B100 - Educational Planning (recommended) or -any course listed under Bakersfield College General requirements for graduation. (A student development course is recommended to be taken during the first semester of courses at Bakersfield College to assure priority registration.)

*Board of Registered Nursing required course; the courses must be completed with a ‘C’ grade or better. Note: All graduation requirements of the college must be met to earn an Associate of Science in Nursing and to take the NCLEX RN – Licensure Exam.

First Semester
Course Number Title Units
NURS B20 Fundamentals of Nursing 4.0
NURS B21 Medical Surgical Nursing 1 5.0
NURS B22 Pharmacology 3.0

Second Semester
Course Number Title Units
NURS B23 Medical Surgical Nursing 2 4.5
NURS B24 Obstetrics - Maternity Nursing 3.0
NURS B25 Mental Health - Psychiatric Nursing 3.5

Third Semester
Course Number Title Units
NURS B26 Medical Surgical Nursing 3 5.5
NURS B27 Pediatric Nursing 3.5

Fourth Semester
Course Number Title Units
NURS B28 Medical Surgical Nursing 4 7.0
Upon successful completion, the student will:

**Program Learning Outcomes**
1. Formulates a nursing diagnosis through observation of the client’s physical condition and behavior, and through interpretation of information obtained from the client and others, including the health team.
2. Formulates a care plan, in collaboration with the client, which ensures that direct and indirect nursing care services provide for the client’s safety, comfort, hygiene, and protection, and for disease prevention and restorative measures.
3. Performs skills essential to the kind of nursing action to be taken, explains the health treatment to the client and family, and teaches the client and family how to care for the client’s health needs.
4. Delegates tasks to subordinates based on the legal scopes of practice of the subordinates and on the preparation and capability needed in the tasks to be delegated, and effectively supervises nursing care being given by subordinates.
5. Evaluates the effectiveness of the care plan through observation of the client’s physical condition and behavior, signs and symptoms of illness, and reactions to treatment and through communication with the client and health team members, and modifies the plan as needed.
6. Acts as the client’s advocate, as circumstances require, by initiating action to improve health care or changing decisions or activities which are against the interests or wishes of the client, and by giving the client the opportunity to make informed decisions about health care before it is provided.

(Title 16, California Code of Regulations, Division 14 – Board of Registered Nursing, Article 4, Section 1443.5)

2. Perform Nursing practice, which includes those functions, including basic health care, that help people cope with difficulties in daily living that are associated with their actual or potential health or illness problems or the treatment thereof, including all of the following:
   - Direct and indirect patient care services that ensure the safety, comfort, personal hygiene, and protection of patients, and the performance of disease prevention and restorative measures. (Business and Professions Code, Division 2, Chapter 6, Section 2725)
   - Direct and indirect patient care services, including, but not limited to, the administration of medications and therapeutic agents, necessary to implement a treatment, disease prevention, or rehabilitative regimen ordered by and within the scope of licensure of a physician, dentist, podiatrist, or clinical psychologist, as defined by Section 1316.5 of the Health and Safety Code.
   - The performance of skin tests, immunization techniques, and the withdrawal of human blood from veins and arteries.
   - Observation of signs and symptoms of illness, reactions to treatment, general behavior, or general physical condition, and:
     - Determination of whether the signs, symptoms, reactions, behavior, or general appearance exhibit abnormal characteristics.
     - Implementation, based on observed abnormalities, of appropriate reporting, or referral, or standardized procedures, or changes in treatment regimen in accordance with standardized procedures, or the initiation of emergency procedures.

The study of nursing is the application of knowledge from the arts and sciences. The purpose of the Bakersfield College LVN to Associate Degree Program is to provide the foundation for students to become competent registered nurses. The LVN-ADN Program respects the individuality of students and recognizes that each student has different educational, experiential, cultural, spiritual, economic and social backgrounds and a unique support system. The aim of the program is to provide a positive, innovative learning model that fosters the development of critical thinking and problem solving skills so that the graduate nurse is equipped to deliver care to a culturally diverse population in a variety of healthcare settings.

**Mission**
The mission of the Bakersfield College LVN-Associate Degree Nursing Program is to prepare entry-level registered nurses as providers...
and managers of care across the health/illness continuum and as members within the profession. Graduate nurses will collaborate with members of the health care team, be effective communicators, be politically aware, and demonstrate a commitment to life long learning.

Prerequisite Requirements

- All prerequisites must be completed with a C grade or higher.
- ENGL B1A (Expository Composition), 3 units at Bakersfield College or equivalent course at another accredited college.
- MATH B70 or MATH BD (Intermediate Algebra) or higher; 3 units at Bakersfield College or an equivalent course at another accredited college.
- CHEM B11 (Introduction to General, Organic and Biochemistry) or CHEM B1A (General Chemistry) at Bakersfield College or an equivalent Chemistry course (3-5 units) from another accredited college.
- BIOL B16 (General Microbiology) 5 units at Bakersfield College or equivalent course at another accredited college.
- BIOL B32 (Anatomy & Physiology I) 4 units at Bakersfield College or equivalent course at another accredited college.
- BIOL B33 (Anatomy & Physiology II) 4 units at Bakersfield College or equivalent course at another accredited college.
- (Anatomy and Physiology requirement can also be met with Human Anatomy (min. of 4 units) AND Human Physiology (min. of 4 units) of equivalent courses from another accredited college.)
- Proof of IV Certification is required. Students may meet this requirement by taking MEDS B66 prior to entering the LVN-ADN Program.
- One year experience working as an LVN.
- Possession of current California Vocational Nurse License.
- American Heart Association BLS - Healthcare Provider card - current within one year. (MEDS B52 fulfills this requirement)
- Overall GPA of 2.5.
- Graduation from high school or an equivalent education.

General Education

General education courses are required to graduate from Bakersfield College with an Associate Degree in Nursing. It is suggested that most of these courses be completed prior to beginning the Nursing Program.

- Social Science (3 units) – any course listed in Area D3 of the Bakersfield College General Education Pattern
- Arts, Literature, Philosophy, and Foreign Language (3 units) – any course as listed in Area C of the Bakersfield College General Education Pattern.
- COMM B1* or COMM B2*
- ANTHB2* or SOC B1*
- PSYC B1A*
- Physical Education (1 unit) required from PHED courses numbered from B2-B33 or B49.
- HLED-Health Education (3 units) is waived for RN students
- NURS B100 - Educational Planning - recommended or any course listed under Bakersfield College General requirements for graduation. (A student development course is recommended to be taken during the first semester of courses at Bakersfield College to assure priority registration.)
- *Board of Registered Nursing required course. Courses must be completed with a C grade or better.

Note: All graduation requirements of the college must be met to earn an Associate of Science (A.S.) in Nursing and to take the NCLEX RN – Licensure Exam.

Application Procedure

The Allied Health office must receive all application forms and transcripts during the designated filing periods. For detailed information on the application period and procedures, please refer to the Allied Health web site at www.bakersfieldcollege.edu/allied-health or come to the Bakersfield College Allied Health Office in MS 178.

Conditional Enrollment

As a condition of enrollment in any Nursing/Allied Health Program, students are required to submit to and pass a designated drug and alcohol screening, a background screening, and physical examination clearance (at the student’s expense). Please note the following:

- A history of felony conviction(s) or any bar, exclusion or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
- If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the program. In the event that a student cannot obtain a background clearance, the space will be forfeited. Students who are found to be ineligible for clinical placement by the clinical agency after admission to the program shall be subject to dismissal from the program, as they will be unable to complete mandatory clinical rotations.
- A physical examination completed by a physician of the student’s choice is required after acceptance to the Program to demonstrate that a student meets the technical standards necessary to meet the Program objectives. Appropriate immunizations and/or vaccinations and mask fit testing are also required and are performed at the student’s expense.
- More information can be found on the Allied Health web site at www.bakersfieldcollege.edu/allied-health or in the Bakersfield College Allied Health Office, MS 178.

Program Costs

An estimated cost for the program is approximately $3,200.

Transfer and Challenge by Exam Policy

For transfer and challenge by exam policies, contact the Nursing Department for further information.

Program Approval/ Accreditation

The California Board of Registered Nursing approves the Bakersfield College Associate Degree Nursing Program. The Western Association of Schools and Colleges accredits Bakersfield College.

Licensure/Certification Eligibility

Record of any misdemeanor and/or felony is subject to review by the Board of Registered Nursing before a RN license may be granted. Anyone who wishes clarification may contact the Board of Registered Nursing, PO Box 944210, Sacramento, CA 94244. Applicants for RN Licensure must submit a valid Social Security number at the time of application.

Career Opportunities in Registered Nursing

Employment in a variety of healthcare facilities and settings.

LVN-ADN Program Curriculum

The following courses are taken after the student enters the Program.
### Third Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS B25</td>
<td>Mental Health - Psychiatric Nursing</td>
<td>3.5</td>
</tr>
<tr>
<td>NURS B26</td>
<td>Medical Surgical Nursing 3</td>
<td>5.5</td>
</tr>
<tr>
<td>NURS B70</td>
<td>Role Transition: Bridging Nursing Theory to Practice</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Program Accreditation**

The California Board of Registered Nursing accredits the Bakersfield College Associate Degree Nursing Program. The Western Association of Schools and Colleges accredits Bakersfield College.

### LVN to Non-Degree Nurse (30 unit option)

**Total Units: 30**

Students seeking information regarding the 30-unit option preparation for the registered nurse licensing examination may receive further information from the Dean of the Associate Degree Nursing Program. The 30 unit option is specific to California only. As a 30 unit option you are not a graduate of Bakersfield College’s Nursing Program.

**Transfer and Challenge by Exam Policy**

For transfer and challenge by exam policies, contact the Nursing Department for further information.

**Career Opportunities in Registered Nursing**

Employment in a variety of healthcare facilities and settings.

**Prerequisite Requirements**

All prerequisite courses must be completed prior to submission of program application. Courses in-progress at the time of application will not be considered.

1. The following courses must be completed with a grade of 'C' or higher:
   - Introductory Physiology (with lab) must meet Board of Registered Nursing requirements in Physiology.
   - General Microbiology (with lab) must meet Board of Registered Nursing requirements in Microbiology.
2. Additional Prerequisites:
   - Graduation from high school or an equivalent education.
   - Possession of a current California Vocational Nurse License.
   - Employment as a LVN for at least 1 year.
   - IV Certification.

**30 Unit Option Curriculum**

**Third Semester**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS B25</td>
<td>Mental Health - Psychiatric Nursing</td>
<td>3.5</td>
</tr>
<tr>
<td>NURS B26</td>
<td>Medical Surgical Nursing 3</td>
<td>5.5</td>
</tr>
<tr>
<td>NURS B70</td>
<td>Role Transition: Bridging Theory to Practice</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Fourth Semester**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS B28</td>
<td>Medical Surgical Nursing 4</td>
<td>7.0</td>
</tr>
<tr>
<td>NURS B29</td>
<td>Gerontology - Community Nursing</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Vocational Nursing Program Certificate of Achievement**

**To Achieve the Certificate of Achievement**

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Vocational Nursing Certificate of Achievement.

**Program Learning Outcomes**

Upon successful completion, the student will:

1. demonstrate an understanding of how to use and practice basic assessment (data collection), participate in planning, execute interventions in accordance with the care plan or treatment plan, and contribute to evaluation of individualized intervention related to the care plan or treatment plan.
2. perform direct patient/client care by which the student • performs basic nursing services.
   • administers medications.
   • applies communication skills for the purpose of patient/client care and education.
   • contributes to the development and implementation of a teaching plan related to self-care for the patient/client.

**Vocational Nursing Program Mission**

The mission of the Bakersfield College Vocational Nursing Program is to prepare entry-level vocational nurses as providers of care across the health/illness continuum and as members within the profession.

**Prerequisite Requirements**

All prerequisites must be completed prior to the start of the Program with a C grade or higher. Priority is provided to students with all prerequisite courses completed at the time of submitting an enrollment form.

- Proof of graduation from high school or an equivalent education.
- BIOL B18 (Essentials of Human Anatomy and Physiology) at Bakersfield College or an equivalent course at another accredited college.
- PSYC B1A (General Psychology) at Bakersfield College or an equivalent course at another accredited college.
- MATH B60 (Elementary Algebra) at Bakersfield College or an equivalent course at another accredited college.
- Eligibility for ENGL B1A (Expository Composition) as demonstrated by qualifying scores on the college assessment test or completion of ENGL B53 or ENGL B50 at Bakersfield College or equivalent course from another accredited college with a C or higher.
- Nurse Assistant certification – required (Effective Fall 2016).
- MEDS B60 (Medical Terminology) – highly recommended.

**Note:** Students desiring to continue their education and become a registered nurse need to refer to the prerequisites required for the Associate Degree Nursing Program.

**Application Procedure**

The Allied Health office must receive all application forms and transcripts during the designated filing periods. For detailed information on the application period and procedures, please refer to the Allied Health web site at www.bakersfieldcollege.edu/allied-health or in the Bakersfield College Allied Health Office in MS 178.
Conditional Enrollment
As a condition of enrollment in any Nursing/Allied Health Program, students are required to submit to and pass a designated drug and alcohol screening, a background screening, and physical examination clearance (at the student’s expense). Please note the following:

- A history of felony conviction(s) or any bar, exclusion or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
- If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the program. In the event that a student cannot obtain a background clearance, the space will be forfeited. Students who are found to be ineligible for clinical placement by the clinical agency after admission to the program shall be subject to dismissal from the program, as they will be unable to complete mandatory clinical rotations.
- A physical examination completed by a physician of the student’s choice is required after acceptance to the program to demonstrate that a student meets the technical standards necessary to meet the Program objectives. Appropriate immunizations and/or vaccinations and mask fit testing are also required and are performed at the student’s expense.

More information can be found on the Allied Health web site at: www.bakersfieldcollege.edu/allied-health or in the Bakersfield College Allied Health Office, MS 178.

Program Costs
An estimated cost for the first semester of the program is approximately $3,200.

Transfer and Challenge by Exam Policy
For transfer and challenge by exam policies, contact the Nursing Department for further information.

Program Approval/Accreditation
The California Board of Vocational Nursing and Psychiatric Technicians accredits the Bakersfield College Vocational Nursing Program. The Western Association of Schools and Colleges accredits Bakersfield College.

Licensure/Certification Eligibility
Conviction of any offenses other than minor traffic violations must be reported to the Board of Vocational Nursing and Psychiatric Technicians at the time of application for licensure. For clarification contact the VN Program Director or the Board of Vocational Nursing and Psychiatric Technicians, 2535 Capitol Oaks Drive, Suite 205, Sacramento, California, 95833, (916) 263-7800. Applicants for VN Licensure must submit a valid Social Security number at the time of application.

Certificate of Achievement
Upon completion of the program of study for Vocational Nursing, the student is eligible for a Certificate of Achievement.

Career Opportunities in Vocational Nursing
Employment as a Licensed Vocational Nurse in a variety of health care settings.

Vocational Nurse Program Curriculum
The following courses are taken after the student enters the Vocational Nursing Program.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VNRS B69</td>
<td>Foundations for Vocational Nursing Practice</td>
<td>3.0</td>
</tr>
<tr>
<td>VNRS B68</td>
<td>Basic Medical Surgical Nursing</td>
<td>3.0</td>
</tr>
<tr>
<td>VNRS B69L</td>
<td>Foundations for Vocational Nursing Practice-Lab</td>
<td>6.0</td>
</tr>
<tr>
<td>VNRS B67</td>
<td>Principles of Pharmacology</td>
<td>2.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VNRS B79</td>
<td>Intermediate Medical Surgical Nursing</td>
<td>9.0</td>
</tr>
<tr>
<td>VNRS B79L</td>
<td>Intermediate Medical Surgical Nursing-Lab</td>
<td>6.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VNRS B89</td>
<td>Advanced Medical Surgical Nursing</td>
<td>3.5</td>
</tr>
<tr>
<td>VNRS B89L</td>
<td>Advanced Medical Surgical Nursing-Lab</td>
<td>3.0</td>
</tr>
<tr>
<td>VNRS B88</td>
<td>Maternal/Child Nursing</td>
<td>3.0</td>
</tr>
<tr>
<td>VNRS B88L</td>
<td>Maternal/Child Nursing-Lab</td>
<td>3.0</td>
</tr>
<tr>
<td>VNRS B84</td>
<td>Maternal/Child Pharmacology</td>
<td>1.0</td>
</tr>
<tr>
<td>VNRS B83</td>
<td>Critical Thinking and Leadership for the Vocational Nurse</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Nurse Assistant Job Skills Certificate
Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate an understanding of knowledge and skills necessary to provide basic patient care including but not limited to the following skills:
  - performing basic hygiene
  - taking and documenting vital information (vital signs, height, weight)
  - documenting patient care
  - assisting with elimination needs
  - collecting specimens
- demonstrate an understanding of effective communication and interpersonal skills
- promote the independence of patients
- demonstrate an understanding of protection of patient privacy and patient rights
- demonstrate an understanding of safety and emergency procedures including the Heimlich maneuver

The Nurse Assistant course prepares the student to provide services to those who need health care. The student will learn the role of the caregiver, the health care environment, health care safety, adult needs in health and illness, and basic care giving skills.

Nurse Assistant Program Mission
The mission of the Bakersfield College Nurse Assistant Program is to provide vocational education that will prepare the student to provide basic services to those who need healthcare. The program is committed to improving and advancing the health and welfare of our community by preparing competent, safe, health care professionals.

Enrollment
Enroll in MEDS B69 through the Bakersfield College. Consult the current class schedule for course offerings. For more information go to www.bakersfieldcollege.edu/allied-health or come by the Office of Allied Health in the Math Science building, room 178.

Conditional Enrollment
As a condition of enrollment in any Nursing/Allied Health Program, students are required to submit to and pass a designated drug and
alcohol screening, a background screening, and physical examination clearance. Please note the following:

- A history of felony conviction(s) or any bar, exclusion or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
- If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the program. In the event that a student cannot obtain a background clearance, the space will be forfeited. Students who are found to be ineligible for clinical placement by the clinical agency after admission to the program shall be subject to dismissal from the program, as they will be unable to complete mandatory clinical rotations.
- A physical examination completed by a physician of the student’s choice is required after acceptance to the Program to demonstrate that a student meets the technical standards necessary to meet the Program objectives. Appropriate immunizations and/or vaccinations and mask fit testing are also required and are performed at the student’s expense.

More information can be found on the Allied Health web site at www.bakersfieldcollege.edu/allied-health or in the Bakersfield College Allied Health Office, MS 178.

Program Costs
An estimated cost for the program (fees, textbooks, uniforms, and examination) is approximately $1,000. Financial aid may be available.

Program Approval Accreditation
The California Department of Public Health approves the Bakersfield College Nurse Assistant Program. The Western Association of Schools and Colleges accredits Bakersfield College.

Licensure/Certification Eligibility
Students with a misdemeanor and/or felony arrest conviction, either current or prior, may not receive certification or licensure from the State or County. Also, a Social Security number and fingerprinting are required by State certification/licensure agencies.

Upon successful completion of the Nurse Assistant course, the student is eligible to take the competency exam for a Certified Nurse Assistant administered by the American Red Cross. This provides proof to the California Department of Public Health that the student has met the requirements for licensure. Students must complete the required courses with at least a ’C’ grade.

Total Units: 6

Employment as a Certified Nurse Assistant in a variety of health care settings.

Nurse Assistant Curriculum

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDS B69</td>
<td>Nurse Assistant</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Philosophy

A major in philosophy has always been and continues to be one of the strongest traditional liberal arts majors in higher education. Some students major in Philosophy as a precursor to graduate work and academic careers, teaching and doing research in Philosophy and Education. Philosophy’s emphasis on critical thinking, theories of knowledge, value and reality, truth, rational argument and proof make it an excellent pre-professional undergraduate major (e.g., for law, theology, medicine, business, computer science) or minor (e.g., for the natural, physical and social science and humanities majors).

Philosophy

Associate in Arts

To Achieve the Associate in Arts
Upon completion of the following courses with at least a ’C’ grade in each course, the student will be awarded a Philosophy Associate in Arts degree.

To Transfer Coursework
A minimum of 22 semester units in the major with a grade of ’C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- Explicate and evaluate arguments
- Explain major philosophical or religious ideas
- Defend personal positions on important philosophical issues
- Demonstrate clear writing and speaking about philosophical or religious ideas

Total Units: 21

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL B6a</td>
<td>Introduction to Philosophy</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL B7 or</td>
<td>Introduction to Logic</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL B9</td>
<td>Critical Thinking and Advanced Composition</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL B10</td>
<td>Introduction to Ethics</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives — at least 9 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL B12</td>
<td>Ethics of Living and Dying</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL B18</td>
<td>History of Ancient Philosophy</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL B32</td>
<td>World Religions: East</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL B33</td>
<td>World Religions: West</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL B37</td>
<td>Introduction to World Religions</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Physics

Physics

Associate in Science Degree for Transfer

The goal of the program is to help students better understand the using physical world and the analysis of it through mathematical techniques using qualitative and quantitative reasoning. The coursework prepares students to think critically and apply reasoning skills to analyze real world situations. Students will be able to successfully transfer to any institution of higher learning armed with the foundation needed to pursue a baccalaureate degree in physics and will be prepared for careers as physicists in fields such as research, industry and education. Students will complete comprehensive curriculum to meet degree and transfer needs. This new degree builds upon the existing degree’s emphases in mathematical modeling, reasoning and critical thinking skills. In addition, it will guarantee transfer to a California State University in the physics major (or a similar or equivalent program). Upon completion of the degree, students will be able to:
- apply appropriate physical laws and mathematical techniques to analyze various physical situations;
- perform various scientific experiments and to analyze data to check agreement with theoretical predictions.
Upon successful completion of this program, students will be able to:

- demonstrate a knowledge of and recognize the processes that explain physical phenomena.
- apply the methodologies of science when approaching a physics problem.
- apply logical quantitative and qualitative reasoning in solving physics problems or analyzing arguments.

The Associate in Science degree in Physics for Transfer is designed to prepare students to begin upper division coursework in a physics program at a four-year college or university. Earning this degree should allow the student to become acquainted with the basic knowledge of physics contained in a calculus-based introductory physics sequence and the mathematics that supports that level of competency. The student will demonstrate proficiency in communication, critical thinking, quantitative problem solving, and laboratory science skills. This degree represents a step in a path preparing students for careers in any of the many branches of physics, physics education, and other technical fields, such as some engineering disciplines in which physics is an integral part. To achieve the Physics Associate in Science degree for transfer, the student will need to complete the following courses with at least a ‘C’ grade in each course. A ‘P’ (Pass) grade is not acceptable for courses in the major. In order to earn the Physics AS-T, students must complete 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AS-T will be required to complete more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtained minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS B4A</td>
<td>Mechanics and Wave Motion</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4B</td>
<td>Heat, Electricity, Magnetism</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4C</td>
<td>Optics and Modern Physics</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6C</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total Units for the Major: 24

## Political Science

### Associate in Arts in Political Science for Transfer

The Associate in Arts in Political Science for Transfer degree is designed for students interested in gaining an understanding of the structure and functions in governments. This degree provides a foundation for further study for students planning to transfer into a baccalaureate program in political science. Successful completion of the Associate in Arts in Political Science for Transfer degree guarantees the student acceptance to a California State University (but not to a particular campus) to pursue a baccalaureate degree in Political Science. This degree may not be the best option for students intending to transfer to a particular CSU campus or a university that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtained minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS B1</td>
<td>American Government: National, State and Local</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List A

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS B2</td>
<td>Comparative Government</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS B3</td>
<td>International Politics</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B22</td>
<td>Elementary Probability and Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>5.0</td>
</tr>
</tbody>
</table>

List B (select two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS B12</td>
<td>Contemporary Issues in California State and Local Government</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS B16</td>
<td>Vital Political Problems</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B4A</td>
<td>European Civilization</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B4B</td>
<td>European Civilization</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B17A</td>
<td>History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B17B</td>
<td>History of the United States since 1870</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B18</td>
<td>History of California</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B2</td>
<td>Principles of Economics-Macro</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 19-20

### Primary Care Associate/Physician’s Assistant

Prerequisites and Course Requirements

Stanford University Medical Center administers a program to train individuals who function in association with physicians in the maintenance and delivery of primary health care to medically underserved communities.

Upon completion of the prerequisite pre-clinical program at Bakersfield College or other accredited institutions, students admitted to the program have 15 months of clinical experience coordinated through Stanford University Medical Center. Students participate in didactic course work full-time for the first quarter (3
months) at Stanford Medical Center in Palo Alto, California. Then they complete an equivalent of five days of didactic instruction each month (12 months) thereafter. All clinical experience occurs in an office practice preceptorship. Contact Counseling Department for further information.

**Prerequisites**
Minimum requirements for application and admission include:
1. United States citizen or permanent visa.
2. High School Diploma or equivalent.
3. A minimum of 18 months direct patient care experience.
4. Satisfactory completion of the following academic prerequisites or their equivalents.

General Education courses are required for the Primary Care Associate program. It is recommended that an associate degree at Bakersfield College be completed prior to applying to the program.

The student must have a preceptor site established in order to complete the clinical experiences necessary for the program. Some assistance may be available in locating a preceptor.

Upon successful completion of the Primary Care Associate program, the graduate will sit for a certifying examination administered by the National Commission on Certification of Physician's Assistants. Passing this examination allows the Physician's Assistant to perform direct patient services under the supervision of primary care physicians certified by the California Board of Medical Quality Assurance.

**Pre-Clinical Program Requirements**
A minimum grade of 'C' must be attained in each of these courses. Only work from a regionally accredited college can be accepted.

- **Algebra - Elementary.** One year of high school math or MATH BA/B60 at Bakersfield College.
- **Chemistry - Introductory.** One year of high school chemistry or equivalent.
- **Cultural Anthropology or Sociology - ANTH B2, SOCI B1 at Bakersfield College, or another acceptable course.**
- **English Composition Freshman level - ENGL B50 (formerly ENGL B1), ENGL B1a at Bakersfield College, or other acceptable course.**
- **General Psychology - PSYC B1a at Bakersfield College or other acceptable course.**
- **Microbiology with laboratory; BIOL B16 at Bakersfield College, or other acceptable course.**
- **American History and Institutions.** See Graduation and General Education Section of this catalog.
- **Computer Literacy - Two semester units.** Must include experience at a terminal (COMP B2) at Bakersfield College, or other acceptable course.
- **Ethnic Studies - A course that reflects the experience of an American ethnic group.**
- **Humanities - One course from List A and one course from List B.** (A) Literature, Philosophy (not Logic), or Western Civilization. (B) Art Appreciation, Music Appreciation, or Theatre Arts Appreciation.

*Physical Education - Four quarter courses or three semester courses.
*Speech - Public Speaking or interpersonal communication: COMM B1 or COMM B2 at Bakersfield College, or other acceptable course.
*These courses are required if candidate does not possess an associate in arts, associate in science, or higher academic degree.

### Psychology

**Psychology Associate in Arts for Transfer**
The Associate in Arts in Psychology for Transfer is intended for those transfer-directed students who plan to complete an Associate of Arts in Psychology because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Psychology for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Psychology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The major in psychology provides a study of the behavior of individuals and groups. The four-year degree in this major contributes to the foundational knowledge for positions in research and teaching, counseling, and working in clinical settings.

**To Achieve the Associate in Arts for Transfer**
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Psychology Associate in Arts for Transfer degree.

**To Transfer Coursework**
A minimum of 21 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**
Upon successful completion, the student will:
- Demonstrate an understanding of the major concepts of behavior, theoretical perspectives, empirical findings, and historical trends in psychology.
- Demonstrate an understanding of basic research methods and information competency in obtaining relevant information about the science and profession of psychology.
- Exhibit an awareness of the ethical and professional factors related to the diversity of individuals and groups within the discipline of psychology.

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B1a*</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B1b*</td>
<td>Biological Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B5*</td>
<td>Elementary Statistics for the Behavioral and Life Sciences</td>
<td>5.0</td>
</tr>
</tbody>
</table>
The Bakersfield College Radiologic Technology Program Mission, Goals and Outcomes

**Radiologic Technology**

Radiologic Technology is a health care profession whose practitioners work in hospitals, imaging centers, and private physicians' offices. The radiologic technologist (radiographer) is a member of the health care team who works directly with the patient and the physician performing a wide variety of diagnostic x-ray procedures. The role of the graduate radiographer may be that of staff radiographer, special imaging radiographer; supervisor, administrator or educator, depending upon the level of education and experience obtained.

The Bakersfield College Associate in Science degree Radiologic Technology Program provides concurrent didactic and clinical education. The program is 24 months in length (excluding prerequisite coursework) and begins each year in June. Students should anticipate making a full time commitment to the program during the school year. Summer sessions are required and semester/ terms may be scheduled beyond the regular college session dates. The Program is primarily scheduled during the day; however an evening clinical rotation will be completed during the second year of the program. Clinical education sites include hospitals and imaging centers located in Bakersfield, California and Delano, California. Students may be assigned to any clinical education center in any geographical location and must provide their own transportation to these centers.

The program provides the theory, skill and experience necessary to apply for admission to the licensure exam administered by the American Registry of Radiologic Technologists; and for certification from the State of California, Department of Public Health, Radiologic Health Branch, as a Certified Radiologic Technologist. The student is also eligible to write the State Fluoroscopy Permit exam. Students must earn a minimum grade of ‘C’ in all radiography courses, have met the State mandated curriculum and clinical hours, met all clinical education competencies and earned the Associate in Science degree to be recommended for these examinations/certifications. For program information, brochure and enrollment application form, consult the following website at www.bakersfieldcollege.edu/allied-health.

**Radiologic Technology Program Mission, Goals and Outcomes**

The mission of the Bakersfield College Radiologic Technology Program is to promote student success by providing quality instruction for graduates to competently practice radiography at the entry level. The Program learning goals and outcomes are:

**Any two of the following courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B2</td>
<td>Interpersonal and Group Process Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B20*</td>
<td>Social Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B30*</td>
<td>Human Sexuality</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B33*</td>
<td>Psychology of Adjustment</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B40*</td>
<td>Lifespan Psychology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Required Subtotal: 21.0

CSU General Education or IGETC Pattern: 39.0

Transfer Electives (as needed to reach 60 transferable units): 39.0

Degree Total: 60.0

*Courses with an asterisk can be double counted for General Education. No additional graduation requirements are required to complete this degree.

5. Students will be clinically competent.
   a) Students will apply positioning skills.
   b) Students will select exposure factors.
   c) Students will utilize radiation protection
   d) Students will demonstrate and employ knowledge of equipment operation.

6. Students will develop critical thinking skills.
   a) Students will demonstrate the ability to formulate technical factors.
   b) Students will adapt standard procedures for non-routine patients.
   c) Students will demonstrate independent judgment.
   d) Students will critique images to determine diagnostic quality.

7. Students will communicate effectively.
   a) Students will demonstrate effective communication
   b) Students will use correct pronunciation

8. Students will model professionalism.
   a) Students will demonstrate knowledge of professional imaging organizations.
   b) Students will summarize the value of life-long learning
   c) Students will demonstrate work ethics.

9. The Program will graduate entry-level radiographers.
   a) Program graduates will pass the ARRT exam on the 1st attempt.
   b) Graduates seeking employment will obtain employment within 6 months of graduation.
   c) Students will successfully complete each course.
   d) Students will successfully complete the program.
   e) Graduates will be satisfied with their education
   f) Employers will be satisfied with graduate performance

**Radiologic Technology Program Prerequisite Requirements**

All prerequisite coursework must be completed prior to applying for the Radiologic Technology Program. Students are strongly encouraged to complete prerequisite courses prior to enrolling in general education courses. This will improve a student’s opportunity to apply for program enrollment. The following prerequisite courses must be completed with a C grade or higher.

1. BIOL B18 (Essentials of Anatomy and Physiology)
   -or-
   BIOL B32 (Human Anatomy and Physiology I)
   -and-
   BIOL B33 (Human Anatomy and Physiology II)
   -or-
   equivalent course(s) at another accredited college.

   *Note: BIOL B14 (Human Anatomy) and BIOL B15 (Human Physiology) were previously taught at Bakersfield College and they meet this requirement.

2. MATH BD/B70 (Intermediate Algebra-5 units) at Bakersfield College or equivalent course at another accredited college. A higher level college math course will be accepted in lieu of this algebra requirement.

3. MEDS B60 (Medical Terminology - 3 units) at Bakersfield College or equivalent course at another accredited college.

4. ENGL B1a (Expository Composition - 3 units); or an equivalent course at another accredited college. This prerequisite must be met by all new and Wait List applicants effective February 2013.
5. Minimum cumulative grade point average of 2.7 with MATH BD or MATH B70 passed on the first attempt; OR Minimum cumulative grade point average of 2.9 with MATH BD or MATH B70 passed on the second attempt. Note: All course attempts including grades of ‘D,’ ‘F’ and withdrawals (W) are included in the review of the course attempts. Students with more than two math attempts are not initially eligible for the program. In addition, for students who use a higher level math course in lieu of Intermediate Algebra these same requirements for minimum cumulative grade point average and course attempts apply in order to meet program prerequisites.

Remediation Plan:
Students who do not initially meet the eligibility requirement for passing the MATH BD/MATH B70 prerequisite within two attempts must complete all of the following remediation requirements to be considered eligible to apply for the Radiologic Technology Program.
- Completion of ACDV B70a-B70f - Study Skills courses with a grade of ‘B’ or better
- Completion of MATH B22 Elementary Probability and Statistics with a minimum grade of ‘C’ on the first course attempt
- Successful completion of the Remediation Program must be completed within 1 year of initial application to the program.

Students who do not meet the grade point average (GPA) eligibility requirement of either 2.7 or 2.9 are advised to research and complete, if applicable, an Academic Renewal request through the Bakersfield College established process identified in the college catalog for a recalculation of their GPA.

Documentation of completion of the remediation plan must be submitted to the Program at the time of application. Documentation is made through college transcripts.

6. Graduation from high school or an equivalent education.

Enrollment Procedures and Application Filing Period
Application forms and all required documents must be received by the Radiologic Technology Program Office during the application month of February. Late applications will not be accepted.

Application Procedures
1. Complete required prerequisite courses (see above)
2. Obtain application form from the Allied Health Department located in Room 178 of the Math-Science Building on the main campus; or by telephone at 661/395-4284; or on the website at www.bakersfieldcollege.edu/allied-health.
3. Arrange for an official copy of your high school transcript to be mailed directly to the: Radiologic Technology Program, Bakersfield College, 1801 Panorama Drive, Bakersfield, California 93305. A copy of High School Equivalency (GED) is required if your high school transcript does not identify graduation. Note: You may also hand deliver this transcript providing the official is sealed.
4. If you are a Bakersfield College student with no college courses other than Bakersfield College courses: Provide the Program with an unofficial Bakersfield transcript from the college web site or an unofficial transcript from the Admissions and Records Office.
5. If you have taken courses from any college other than Bakersfield College:
   - Apply for admission to Bakersfield College either in person or online at www.bakersfieldcollege.edu, click on Admissions and Records and follow the directions under “Enrolling”.
   - Submit an official copy of your transcripts from your previous college to the Office of Admissions & Records and request an evaluation of your transcripts. This process requires the form “Request for Evaluation”. You may obtain this form in the Office of Admissions & Records or on the Bakersfield College under Admissions & Records “Other Forms.” Note: This process can take up to 12-16 weeks. Once your transcripts have been evaluated and posted to your Bakersfield College transcript, the student must either print a copy of the Bakersfield College transcript from the website or request one from the Office of Admissions and Records. This evaluation must be completed and then submitted to the Program prior to the end of the Program enrollment filing period during the month of February. It is the responsibility of the student to supply this information to the Program during the month of February prior to the end of the enrollment filing period.

General Education Requirements
General education courses are required to graduate from the Bakersfield College Associate in Science degree Radiologic Technology program. It is suggested that these courses be completed prior to program enrollment. Refer to the Bakersfield College General Education and Graduation Requirements in this catalog for more specific information and requirements for the college (the list below does NOT identify all requirements). All students are encouraged to regularly check the college requirements for graduation to ensure that AS degree requirements will be met at the end of the radiography program.

1. Student Development: It is recommended that students complete this component as they begin college coursework.
2. Computer Studies (3 units) - COMP B2 or COMP B5 or equivalent is necessary to meet Radiologic Technology Program completion.
4. Arts, Literature, Philosophy and Foreign Language-Humanities - Philosophy B12 recommended.
5. Health Education - Students that successfully complete the Radiologic Technology Program are waived from the Health Education requirement for graduation.
6. Communication, Social Science, and Physical Education: Any course that meets the Associate in Science degree requirements and the general education pattern of the college.
7. An individual who has previously received an associate degree or higher must meet and earn the Associate in Science Degree requirements for the Radiologic Technology Program to meet eligibility requirements for certification and licensure.
Health Requirements and Screenings

1. A physical examination will be required after the students receive notification of enrollment into the program to demonstrate that a student meets the technical standards necessary to meet the objectives of the program. A copy of the Essential Technical Standards required for Radiologic Technologists may be obtained in the Allied Health Division Office located in the Math-Science building, room 178 or on the program website at www.bakersfieldcollege.edu/allied-health.

2. As a condition of enrollment in the Radiologic Technology Program, all students are required to submit to and pass a designated drug and alcohol screen.

3. As a condition of enrollment in any Allied Health Program with a clinical component, students are required to submit to and pass a designated background check. Every student offered space in the program will be required to submit to a background screening as part of his or her clinical requirements for admission. Please note the following:
   - A history of felony conviction(s) or any bar, exclusion or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
   - If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the program.
   - In the event that a student cannot obtain a background clearance, the space will be forfeited.
   - Students who are found to be ineligible for clinical placement by the clinical agency after admission to the radiography program shall be subject to dismissal from the program, as they will be unable to complete mandatory clinical rotations.

4. Immunizations/health tests are needed for acceptance in a clinical education center and to protect the health and welfare of the student and community. Immunizations may include, but not be limited to, rubella, varicella, Hepatitis B, and Tuberculosis screening and the seasonal flu vaccine is also required.

5. The medical exams, drug/alcohol screens, background screen, immunizations and tests are performed at the expense of the student.

6. The student must possess a current Basic Life Support/CPR (cardiopulmonary resuscitation) card by the American Health Association (Healthcare Provider card). This card must be provided at the start of the program and be kept valid during the entire 24-month program.

Program Supply Information

Students will be required to purchase uniforms, textbooks and selected equipment, provide transportation to off campus clinical education centers in Bakersfield, California and Delano, California and pay current college fees. Estimated costs for books, uniforms, fees and required equipment for the first year of the program are approximately $1,200 to $1,400. Subsequent semesters require enrollment fees, supplies, books and course syllabi (approximately $1,200). Additional expenses for the last semester of enrollment also include the program pin and application fees for national and state licensure/registration examinations (approximately $450).

Licensure/Certification Eligibility

The American Registry of Radiologic Technologists (ARRT) requires review of any conviction, misdemeanor or felony, or a sanction by the Program regarding an academic honor code, or review of suspension or dismissal by a radiography program and review of licensure suspension, denial or other disciplinary action by a regulatory authority or certification board other than the ARRT. This review may be conducted prior to or during the program. For more information contact the ARRT at: 1225 Northland Drive, Mendota Heights, MN 55120, (651) 687-0048, or www.arrt.org. The State Department of Public Health, Radiologic Health Branch and the American Registry of Radiologic Technology requires possession of either a Social Security number or Tax payer ID number to apply for licensure and/or registration.

Accreditation

Bakersfield College is accredited by the Western Association of Schools and Colleges. The Radiologic Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, Illinois 60606-3182, (312) 704-5300 or www.jrcert.org. The program is also approved by the State of California, Department of Public Health, Radiologic Health Branch, PO. Box 997414, MS-7610, Sacramento, CA, 95899-7414, (916) 327-5106 or www.cdph.ca.gov/rhb.

Career Opportunities in Radiologic Technology

This degree is a Career and Technical Education program which prepares students for both State licensure and national certification in radiography which is necessary for employment in x-ray technology.

Radiologic Technology Associate in Science

The following courses are taken after students have been enrolled in the Radiologic Technology Program.

To Achieve the Associate in Science

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Radiologic Technology Associate in Science degree.

To Transfer Coursework

A total of 58.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:
  - competently perform radiographic positioning.

First Summer Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT B1a</td>
<td>Introduction to Radiologic Technology</td>
<td>2.0</td>
</tr>
<tr>
<td>RADT B1b</td>
<td>Patient Care</td>
<td>2.0</td>
</tr>
<tr>
<td>RADT B4a</td>
<td>Introduction to Clinical Education</td>
<td>1.5</td>
</tr>
</tbody>
</table>

First Fall Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT B2a</td>
<td>Radiograph Anatomy and Positioning 1</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B3a</td>
<td>Radiographic Principles 1</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B4b</td>
<td>Clinical Education 1</td>
<td>4.0</td>
</tr>
<tr>
<td>RADT B12</td>
<td>Radiobiology/Radiation Protect</td>
<td>2.0</td>
</tr>
</tbody>
</table>

First Spring Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT B2B</td>
<td>Radiograph Anatomy and Positioning 2</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B3B</td>
<td>Radiographic Principles 2</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Second Summer Semester

Course Number  Title                  Units
RADT B7        Clinical Education 3 6.5

Second Fall Semester

Course Number  Title                  Units
RADT B2C       Radiograph Anatomy and Position 3 3.0
RADT B5        Radiation Physics        3.0
RADT B10       Clinical Education 4    6.5

Second Spring Semester

Course Number  Title                  Units
RADT B9A       Sectional Anatomy for Medical Imaging 3.0
RADT B11       Radiographic Pathology     2.0
RADT B30       Principles of Venipuncture 1.0
RADT B13       Clinical Education 5    6.0

Principles of Venipuncture Job Skills Certificate

The purpose of this certificate is for successful completion of the Principles of Venipuncture course taught at Bakersfield College. The venipuncture regulations and requirements are part of the Health and Safety Code of California, Section 106985. The certificate is necessary for job readiness and to indicate competency for the performance of venipunctures at the job site. The State of California code requires a certificate to indicate proficiency. The certificate is part of the Career and Technical Education program which prepares students for employment in medical imaging and permits individuals to administer contrast media for x-ray examinations as part of their job as a radiologic technologist.

Program Learning Outcomes

Upon successful completion, the student will:

• demonstrate competency by successfully performing venipuncture techniques on humans in the laboratory setting.

Course Number  Title                  Units
RADT B30       Principles of Venipuncture 1.0

Note: The clinical components of all radiologic technology courses are graded on a Pass/No Pass basis only. Radiologic Technology students are exempt from the maximum of three Pass/No Pass units which may be taken in a semester and from the maximum of 12 Pass/No Pass units which may be applied toward the AS degree at Bakersfield College.

Sociology

Sociology Associate in Arts for Transfer

The Associate in Arts in Sociology for Transfer is intended for those transfer-directed students who plan to complete an AA in Sociology because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Sociology for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Sociology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. No additional graduation requirements are required to complete this degree.

Sociology is the study of groups, institutions, social relationships, and social problems in contemporary society. The sociology major prepares the student for careers in law, social work, human services, urban development, law enforcement agencies, public service, counseling, mental health, teaching, and community service. Students will be prepared for a baccalaureate degree in Sociology or a similar degree.

To Achieve the Associate in Arts for Transfer

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Sociology Associate in Arts for Transfer degree.
To Transfer Coursework
A minimum of 19 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate an understanding of the perspectives, theories, methods and core concepts of the social sciences.
- explain the major problems and issues in the disciplines in their contemporary, historical and geographical contexts.
- demonstrate an understanding of and an ability to describe the contributions and perspectives of women, ethnic and other minorities, and Western and non-Western peoples.

Required Core Courses: 3 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B1*</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Group A: Any two of the following courses: 7-8 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B2*</td>
<td>Problems of Modern Society</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B5*</td>
<td>Elementary Statistics for the Behavioral and Life Sciences</td>
<td>5.0</td>
</tr>
<tr>
<td>PSYC B6*</td>
<td>Research Methods for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Group B: Select two of the following courses: 6 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B28*</td>
<td>Introduction to Gender</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B45*</td>
<td>Minority Relations</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B1*</td>
<td>Introduction to Criminal Justice</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B20*</td>
<td>Social Psychology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Group C: Select one course from list C which includes the course below and any course in lists A & B not already used: 2 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B36*</td>
<td>Sociology of the Chicano</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Additional Courses
Any transferable anthropology or psychology course 3.0
Required Subtotal 19.0
CSU General Education or IGETC Pattern: 39.0
Transfer Electives (as needed to reach 60 transferable units) 60.0

*Courses with an asterisk can be double counted for General Education. No additional graduation requirements are required to complete this degree.

Spanish

Associate in Arts in Spanish for Transfer
The Associate in Arts in Spanish for Transfer degree provides a linguistic study of the language and an in-depth look into the culture of the Spanish-speaking world. The objective of the program is to provide students with opportunities to obtain an AA degree in Spanish, transfer to a four-year college, and achieve their academic goals. Graduates of this program will be better prepared for employment in both academic and non-academic fields, such as schools, corporations, business entities, and not-for-profits.

The following is required for the completion of all AA-T or AS-T degrees:
1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

Departmental placement evaluation determines the course level where individual students begin the core courses. Credit or placement equivalent to two years of college level Spanish is required. If a student places out of any course and is not awarded units for that course, the student will need additional coursework to reach at least 19 total units in the major. Due to differences in unit values, it may be necessary to substitute two 3 unit courses for each 4 unit required core course not taken.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN B1</td>
<td>Elementary Spanish I</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B2</td>
<td>Elementary Spanish II</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B3</td>
<td>Intermediate Spanish I</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B35</td>
<td>Spanish for Heritage Speakers I</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B36</td>
<td>Spanish for the Heritage Speakers II</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Substitution Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B37</td>
<td>Survey of Art – Latin America</td>
<td>3.0</td>
</tr>
<tr>
<td>Any course(s) from List A not already used</td>
<td>3-9</td>
<td></td>
</tr>
</tbody>
</table>

List A (any one of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B24</td>
<td>Latino/a Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30A</td>
<td>Early Chicano History</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30B</td>
<td>History of Chicanos in the Southwest</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B33</td>
<td>Latin American History</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B36</td>
<td>Sociology of the Chicano</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B45</td>
<td>Minority Relations</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 19-21

Theatre

Associate in Arts in Theatre Arts for Transfer
The Associate in Arts in Theatre Arts for Transfer Degree (AA-T in Theatre Arts) is designed to provide students a clear transfer pathway to CSU campuses that offer bachelor’s degrees in Theatre Arts. Ed Code Section 66746-66749 states that students earning the Associate in Arts in Theatre Arts for Transfer Degree (AA-T in Theatre Arts) will be granted priority for admission as a Theatre major to a local CSU, as determined by the CSU campus to which the student applies. This degree requires students to complete 60 CSU transferable units including completion of CSU or IGETC and 18 units in the major with a cumulative GPA of 2.0 or better. Title 5 requires that students earn a grade of 'C' or better in all major

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>

Total required units: 19-21
coursework. This degree provides students with an understanding and an appreciation for the art of theatre and includes courses in acting, technical theatre, rehearsal and performance as well as an introduction to the theatre and play analysis. Completion of this curriculum will provide preparation for future theatre studies. The Associate in Arts in Theatre Arts for Transfer Degree (AA-T in Theatre Arts) requires 18 units of which 9 units are in required core courses. An additional 9 units are in restricted electives from the categories below as indicated.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The obtaining of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA B20</td>
<td>Introduction to Theatre</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B1</td>
<td>Introduction to Acting</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B27</td>
<td>Acting Theatre Laboratory</td>
<td>1-3</td>
</tr>
<tr>
<td>THEA B28</td>
<td>Technical Theatre Laboratory</td>
<td>1.0</td>
</tr>
</tbody>
</table>

List A (any three of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA B2A</td>
<td>Elements of Acting</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B2B</td>
<td>Elements of Acting</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B14</td>
<td>Introduction to Stage Costume</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B16</td>
<td>Stagecraft</td>
<td>3.0</td>
</tr>
</tbody>
</table>

If not used in required core:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA B27</td>
<td>Acting Theatre Laboratory</td>
<td>1-3</td>
</tr>
<tr>
<td>THEA B28</td>
<td>Technical Theatre Laboratory</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Total required units: 18

### Welding

**Blueprint Reading and Layout for Welders Job Skills Certificate**

This certificate covers the principles of blueprint reading as it applies to welders. Emphasis is placed on the ability to visualize and interpret working drawings. Welding symbols and basic shop math are included. Layout techniques including mathematical and pipe fitting technology are covered. Career opportunities include blueprint reading and layout in the welding industry.

To Achieve the Job Skills Certificate

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Blueprint Reading and Layout for Welders Job Skills Certificate.

To Transfer Coursework

A minimum of 6 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

Total Units: 6

#### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD B54a</td>
<td>Blueprint Reading for Welders and Machinists</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B54b</td>
<td>Template Development and Layout for the Welder</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Gas Metal Arc/Gas Tungsten Arc Welding/Flux Core Arc Welding Job Skills Certificate

This certificate emphasizes welding processes of gas metal arc welding (GMAW), gas tungsten arc welding (GTAW) and flux core arc welding (FCAW). Theory and application as well as safety of these applications while welding on mild steel, aluminum and stainless steel are emphasized.

To Achieve the Job Skills Certificate

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Gas Metal Arc/Gas Tungsten Arc Welding/Flux Core Arc Welding Job Skills Certificate.

To Transfer Coursework

A minimum of 8 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

Total Units: 8

#### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD B1a</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1b</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B74a</td>
<td>Introduction to GMAW (Gas Metal Arc Welding)</td>
<td></td>
</tr>
</tbody>
</table>
Shielded Metal Arc Welding
Job Skills Certificate
This certificate emphasizes welding processes from oxy-acetylene cutting and brazing through shielded metal arc welding using many different welding electrodes and all positions. Blueprint reading and pattern layouts for welding are highlighted. Career opportunities include entry level welding jobs requiring the use of the SMAW process, blueprint reading, and layout.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Shielded Metal Arc Welding Job Skills Certificate.

A minimum of 32 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

To Transfer Coursework
A minimum of 14 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

Total Units: 32

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD B1a</td>
<td>Introduction to Oxygen Acetylene Welding</td>
<td>2.0</td>
</tr>
<tr>
<td>and Cutting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WELD B1b</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B53ab</td>
<td>Shielded Metal Arc Welding</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B55ab</td>
<td>Structural Plate Certification I, II</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B55cd</td>
<td>ASME Pipe Certification</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B65ab</td>
<td>Welded Steel Structures</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B74a</td>
<td>Introduction to GMAW (Gas Metal Arc Welding)</td>
<td>2.0</td>
</tr>
<tr>
<td>and FCAW (Flux Core Arc Welding)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WELD B74b</td>
<td>Introduction to Gas Tungsten Arc Welding</td>
<td>2.0</td>
</tr>
<tr>
<td>MFGT B1ab</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B54a</td>
<td>Blueprint Reading for Welders &amp; Machinists</td>
<td>3.0</td>
</tr>
<tr>
<td>Template Development and Layout for the Welder</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Industrial Technology, Welding Option
Associate in Science
Students must comply with the requirements as shown in the catalog under graduation requirements. Students should seek the advice of a welding instructor, counselor or advisor for assistance in planning for a associate degree. Career opportunities include jobs requiring skills in welding and layout.

To Achieve the Associate in Science
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Industrial Technology, Welding Option Associate in Science degree.

To Transfer Coursework
A minimum of 39-40 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate proficiency in technical skills and safety principles required for employment in the welding industry.
- demonstrate problem solving skills used in product design and development in the welding industry.

Total Units: 39-40

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD B1a</td>
<td>Introduction to Oxygen Acetylene Welding</td>
<td>2.0</td>
</tr>
<tr>
<td>and Cutting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WELD B1b</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B53ab</td>
<td>Shielded Metal Arc Welding</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B55ab</td>
<td>Structural Plate Certification I, II</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B55cd</td>
<td>ASME Pipe Certification</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B74a</td>
<td>Introduction to GMAW (Gas Metal Arc Welding)</td>
<td>2.0</td>
</tr>
<tr>
<td>and FCAW (Flux Core Arc Welding)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
and FCAW (Flux Core Arc Welding) 2.0
WELD B74b  Introduction to Gas Tungsten Arc Welding 2.0
WELD B54a  Blueprint Reading for Welders & Machinists 3.0
WELD B54b  Template Development and Layout for the Welder 3.0
WELD B65ab  Welded Steel Structures 3.0
MFGT B1ab  Machine Tool Processes 3.0
INDR B12  Introduction to Drafting and CAD 2.0
INDT B271  Special Problems in Welding 2.0
INDT B10  Occupational Readiness 3.0

**Woodworking/Cabinetmaking**

**Woodworking/Cabinetmaking Job Skills Certificate**

This certificate covers the principles of woodworking to include materials, hand tools, wood cutting machinery and wood finishing. Emphasis will be put on designs to include modular construction, new materials and processes. Advanced bidding techniques are discussed.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Woodworking/Cabinetmaking Job Skills Certificate.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for employment in the woodworking industry.
- Students will demonstrate problem solving skills used in product design and development in the woodworking industry.
- Students will demonstrate an understanding of the core material required for A.W.S. certification in the woodworking program.

**Total Units: 13**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD B81</td>
<td>Introduction to Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B54A</td>
<td>Blueprint Reading for Welders &amp; Machinists</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B53A</td>
<td>Shielded Metal Arc Welding</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B74a</td>
<td>Introduction to GMAW &amp; FCAW</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B55A</td>
<td>Structural Plate Certification I</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B55B</td>
<td>Structural Plate Certification II</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Electives — to equal 33 units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B50</td>
<td>Introduction to College Composition</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B50</td>
<td>Modern College Arithmetic and Pre-Algebra</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B50</td>
<td>Math Placement Assessment Level 2 or Above</td>
<td>-or-</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B1</td>
<td>Introduction to Woodworking Technologies</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B5</td>
<td>Intermediate Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B65a</td>
<td>Advanced Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B65b</td>
<td>Advanced Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B50</td>
<td>Introduction to College Composition</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Electives — to equal 33 units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOOD B1</td>
<td>Introduction to Woodworking Technologies</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B1</td>
<td>Introduction to Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B5</td>
<td>Intermediate Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B65a</td>
<td>Advanced Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B65b</td>
<td>Advanced Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B50</td>
<td>Introduction to College Composition</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Total Units: 33**

**Select 6 units from the following**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**To Transfer Coursework**

A minimum of 33 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for employment in the woodworking/cabinetmaking industry.
- demonstrate problem solving skills used in product design and development in the woodworking industry.
- demonstrate a deep understanding of the core material required for certification in the woodworking program.

**Total Units: 6**

**Cabinetmaking Certificate of Achievement**

**To Achieve the Certificate of Achievement**

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Cabinetmaking Certificate of Achievement.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university degree program and/or certification in the department programs.

**To Transfer Coursework**

A minimum of 33 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for employment in the woodworking/cabinetmaking industry.
- demonstrate problem solving skills used in product design and development in the woodworking industry.
- demonstrate a deep understanding of the core material required for certification in the woodworking program.
Industrial Technology, Woodworking and Cabinetmaking Option
Associate in Science

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Industrial Technology, Woodworking and Cabinetmaking Associate in Science degree.

To Transfer Coursework
A minimum of 29 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will
• demonstrate proficiency in technical skills and safety principles required for employment in the woodworking/cabinetmaking industry.
• demonstrate problem solving skills used in product design and development in the woodworking industry.
• demonstrate a deep understanding of the core material required for certification in the woodworking program.

Total Units: 29

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOOD B1</td>
<td>Introduction to Woodworking Technologies</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B5</td>
<td>Intermediate Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B65a</td>
<td>Advanced Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B65b</td>
<td>Advanced Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B1</td>
<td>Introduction to Forestry</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B20a</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B1</td>
<td>Introduction to Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
</tbody>
</table>

-or equivalent-

Suggested Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORE B2</td>
<td>Natural Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B30b</td>
<td>Industrial Drawing</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B1ab</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
</tbody>
</table>
### ACDV B5 Tutor Training and Practicum Level 1

**1 unit**

**Prerequisite:** Minimum grade of 'B' in subject to be tutored and approval of subject area instructor and evaluation of prerequisites by the Tutor Trainer and/or Tutor Coordinator.

**Recommended:** Reading - 1 Level Prior to Transfer

**Description:** Essential human relations skills and methods of effective tutoring, placing these skills into practice with tutees assigned by the Tutor Coordinator. This course is required for Level 1 International Tutor Training Program Certification (ITTPC). Tutors are referred by subject area instructor(s).

**Note:** Must have the ACDV B5 instructor’s signature to enroll in any ACDV B5 class.

**Hours:** 18 lecture

**CCS:** Liberal Arts/Science

**Transferable:** CSU and private colleges

---

### ACDV B5A Tutor Training and Practicum Level 2

**.5 unit**

**Prerequisites:** Minimum grade of 'B' in subject to be tutored or approval of subject area instructor or evaluation of prerequisites by the Tutor Trainer and/or Tutor Coordinator.

**Recommended:** Reading - 1 Level Prior to Transfer

**Description:** Designed for returning tutors to build tutoring skills. Skills include essential human relations skills and methods of effective tutoring, placing skills into practice with tutees referred by the Tutor Coordinator. This course is required for Level 2 International Tutor Training Program Certification (ITTPC). Students may be referred by subject area instructor(s).

**Hours:** 9 lecture

**CCS:** Liberal Arts/Science

**Transferable:** CSU and private colleges

---

### ACDV B50 Advanced Reading and Critical Thinking

**3 units**

**Prerequisites:** Reading - one level prior to transfer or ACDV B62 with a grade of 'C' or better

**Recommended:** Writing - one level prior to transfer or ENSL B51/EMLS B61

**Description:** Recommended for students who have not met the reading competency graduation requirement at entrance or for those who wish to improve their skills in academic reading. Emphasizes critical reading and thinking and reading flexibility with college-level material. Focuses on application, analysis, synthesis, and evaluation in both oral and written form. Successful completion of ACDV B50 meets graduation requirement for reading competency.

**Hours:** 54 lecture

**CCS:** Pre-collegiate basic skills

**Transferable:** Not transferable. Not degree applicable.

---

### ACDV B55 First Year Student Success

**0.5-2 units**

**Description:** Introduces students to the college’s academic, social, and physical environments and promotes personal and academic locus of control necessary for student success in college. Designed to increase students’ probability for college success as students locate, navigate, and utilize the campus’ academic and student services resources. The course covers note-taking, test-taking, textbook reading, effective communication, time-management, and library research and other skills necessary for college success.

**Hours:** 9 lecture for each .5 unit (9-36)

**CCS:** Credit Course

**Transferable:** Not transferable. Not degree applicable.

---

### ACDV B61 Accelerated Reading

**4 units**

**Prerequisites:** Reading - two levels prior to transfer or ENSL B61/EMLS B71

**Recommended:** ACDV B201A, ACDV B201B, and writing three levels prior to transfer

**Description:** This course is recommended for students who place at Reading Level 3 or 4 who need to improve vocabulary, reading comprehension, critical thinking, research skills, and reading flexibility with college level material. Students who successfully pass this course will have fulfilled the reading competency requirement for graduation.

**Note:** Not open to students with credit in ACDV B62 or ENSL B51 or EMLS B61

**Hours:** 72 lecture

**CCS:** Credit Course

**Transferable:** Not transferable. Not degree applicable.

---

### ACDV B62 College Textbook Reading Skills

**3 units**

**Prerequisite:** Reading - 2 Levels Prior to Transfer

**Recommended:** Writing - 2 Levels Prior to Transfer

**Description:** Recommended for students who need to improve vocabulary and reading comprehension and reading flexibility. Focuses on demonstration and application of reading strategies as they apply to textbook reading. Includes paragraph analysis, study strategies such as SQ3R and outlining, and vocabulary building techniques. Includes literature and library projects and activities. Provides practice in reading application and analysis level thinking skills.

**Note:** Not open to students with credit in ACDV B61 or ENSL B51 or EMLS B61

**Hours:** 54 lecture

**CCS:** Pre-collegiate basic skills

**Transferable:** Not transferable. Not degree applicable.

---

### ACDV B65 Developing College Writing Skills

**2 units**

**Prerequisites:** Writing - three levels prior to transfer or ACDV B201B and reading - two levels prior to transfer

**Description:** Designed to prepare students for success in English Level 04 by developing basic multi-paragraph writing skills in response to expository passages. Emphasizes the writing process and the review of basic English writing conventions.

**Hours:** 36 lecture

**CCS:** Pre-collegiate basic skills

**Transferable:** Not transferable. Not degree applicable.

---

### ACDV B66 Student Success

**1-3 units**

**Recommended:** Concurrent enrollment in ACDV B280 or B281.

**Description:** Covers the development of successful personal behaviors; interpersonal skills development, effective listening and note taking, time management, textbook reading, math computation, and test taking skills necessary for success in connected core courses.

**Hours:** 18 lecture hours for each unit (18-54)

**CCS:** Pre-collegiate basic skills

**Transferable:** Not transferable. Not degree applicable.
ACDV B70A Time Management Strategies for Academic Success

0.5 unit

Description: This course includes hands-on instruction for developing effective strategies for both personal and academic time management as it relates to academic success in college. Students work on time management activities and assignments both independently and interactively in groups on guided, hands-on activities related to developing time management skills. There are additional outside of class computer lab hours required for students to practice working on a variety of time management strategies.

Hours: 9 lecture

CCS: Credit Course

Transferable: Not transferable. Not degree applicable.

ACDV B70B Note Taking Strategies for Academic Success

0.5 unit

Description: This course includes hands-on learning for developing effective strategies for note taking as it relates to academic success in college. Students work on note taking skills independently and interactively in groups on guided, hands-on activities related to developing note taking skills. There are additional outside of class computer lab hours required for students to practice working on a variety of note taking strategies.

Hours: 9 lecture

CCS: Credit Course

Transferable: Not transferable. Not degree applicable.

ACDV B70C Textbook Reading Strategies for Academic Success

0.5 unit

Description: This course includes hands-on learning for developing effective textbook reading strategies to improve academic success in college. Students work on textbook reading strategies both independently and interactively in groups on guided, hands-on activities related to developing textbook reading skills. There are additional outside of class computer lab hours required for students to practice using a variety of effective textbook reading strategies.

Hours: 9 lecture

CCS: Credit Course

Transferable: Not transferable. Not degree applicable.

ACDV B70D Test Taking Strategies for Academic Success

0.5 unit

Description: This course includes hands-on learning for developing effective test taking strategies related to academic success in college. Students work on test taking strategies both independently and interactively in groups on guided, hands-on activities related to developing test taking skills. There are additional outside of class computer lab hours required for students to practice working on a variety of test taking strategies.

Hours: 9 lecture

CCS: Credit Course

Transferable: Not transferable. Not degree applicable.

ACDV B70E Memory Strategies for Academic Success

0.5 unit

Description: This course includes hands-on learning for developing effective memory strategies related to academic success in college. Students work on memory techniques both independently and interactively in groups on guided, hands-on activities related to developing memory skills. There are additional outside of class computer lab hours required for students to practice working on a variety of memory strategies.

Hours: 9 lecture

CCS: Credit Course

Transferable: Not transferable. Not degree applicable.

ACDV B70F Vocabulary Improvement Strategies for Academic Success

0.5 unit

Description: This course includes hands-on learning for developing effective vocabulary improvement strategies related to academic success in college. Students work on vocabulary improvement both independently and interactively in groups on guided, hands-on activities related to developing vocabulary improvement skills. There are additional outside of class computer lab hours required for students to practice working on a variety of vocabulary improvement strategies.

Hours: 9 lecture

CCS: Credit Course

Transferable: Not transferable. Not degree applicable.

ACDV B72 Basic Arithmetic & Pre-Algebra

4 units

Recommended: Reading - two levels prior to transfer

Description: This course offers an accelerated, intensive option for preparation for Elementary Algebra. The material covered is equivalent to that covered separately in ACDV B77 (Basic Arithmetic) and Math B50 (Pre-algebra). Reviews basic arithmetic including addition, subtraction, multiplication, and division of whole numbers, integers, decimals, fractions, and also includes percent, measurement, and reading tables. Includes real life applications emphasizing estimation and word problems. To prepare for algebra, factoring, exponents, solving simple equations, introduction to plane geometry, averages, ratios, rates, and proportions are included.

Hours: 72 lecture

CCS: Credit Course

Transferable: Not transferable. Not degree applicable.

ACDV B77 Developing College Math Skills

2 units

Recommended: Reading - three levels prior to transfer

Description: This course provides an emphasis on basic arithmetic operations including whole numbers, fractions, decimals, and percent to prepare students for pre-algebra course.

Hours: 36 lecture

CCS: Pre-collegiate basic skills

Transferable: Not transferable. Not degree applicable.

ACDV B190 Assistive Technology for Students with Disabilities

0.5 unit

Description: Provides individual computer access assessment. Based on the findings, students are trained on the appropriate access technologies (text-to-speech, voice recognition, reading and writing tools, etc.). Designed to teach the fundamental access technologies needed for the student to complete writing assignments, web search projects, and to be independent in other courses.

Hours: 9 lecture

CCS: Pre-collegiate basic skills

Transferable: Not transferable. Not degree applicable.
ACDV B195 Word Processing for Students with Disabilities
3 units
Recommended: Reading - two levels prior to transfer.
Description: Fundamentals of word processing using methods and materials designed for students with various disabilities.
Hours: 54 lecture
CCS: Pre-collegiate basic skills
Transferable: Not transferable. Not degree applicable.

ACDV B201A Reading for Academic Success
0.5-1 unit
Description: This course offers individually prescribed lessons in reading fluency and comprehension, vocabulary development, study skills, critical thinking, and writing with supervised practice in the computer lab on assigned tasks. Open entry/open exit. Students should report to SS 143 as soon as possible to take orientation and complete enrollment paperwork.
Hours: 27 laboratory hours for each .5 unit (27-54)
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ACDV B201B Writing for Academic Success
0.5-1 unit
Description: The course offers supervised, self-paced computer lab activities with individually prescribed lessons in English language development and writing skills. Open entry/open exit lab courses. Students should report to SS 143 as soon as possible to take orientation and complete enrollment forms. ACDV B281b is recommended as a supplement to all English and Academic Development classes.
Note: ACDV B201 B is recommended as a supplement to all English and Academic Development classes.
Hours: 27 laboratory hours for each .5 unit (27-54)
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ACDV B201C Basic Math Skills for Academic Skills
0.5-1 unit
Description: This course offers supervised, self-paced computer lab activities with individually prescribed lessons to develop basic math skills. Open entry/open exit. Students should report to SS 143 as soon as possible to take an orientation and complete enrollment forms. ACDV B281c is recommended as a supplement to all basic skills math courses.
Hours: 27 laboratory hours for each .5 unit (27-54)
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ACDV B281A Supervised Tutoring-Computer: Reading
0 unit
Description: This course offers individually prescribed lessons in reading fluency and comprehension, vocabulary development, study skills, critical thinking, and writing with supervised practice in the computer lab on assigned tasks problems. Open entry/open exit. Students should report to SS 143 as soon as possible to take orientation and complete enrollment paperwork.
Note: Weekly hours are decided jointly by the instructor and students. Students cannot register by the web for this course; see instructor in SS 143 to complete enrollment.
Hours: 1-99 laboratory
Repeat: Unlimited
CCS: Non-Enhanced Funding
Transferable: Not transferable. Not degree applicable.

ACDV B281B Supervised Tutoring-Computer: Writing
0 unit
Description: This course offers supervised, self-paced computer lab activities with prescribed lessons in English language development and writing skills. Open entry/open exit lab courses. Students should report to SS 143 as soon as possible to take orientation and complete enrollment forms. ACDV B281b is recommended as a supplement to all English and Academic Development classes.
Note: Weekly hours are decided jointly by the instructor and student. Students cannot register by the web for this course; see instructor in SS 143 to complete enrollment.
Hours: 1-99 laboratory
Repeat: Unlimited
CCS: Non-Enhanced Funding
Transferable: Not transferable. Not degree applicable.

ACDV B281C Supervised Tutoring-Computer: Mathematics
0 unit
Description: This course offers supervised, self-paced computer lab activities with prescribed lessons to develop basic math skills. Open entry/open exit lab courses. Students should report to SS 143 as soon as possible to take orientation and complete enrollment forms. ACDV B281c is recommended as a supplement to all basic skills math courses.
Note: Weekly hours are decided jointly by the instructor and student. Students cannot register by the web for this course; see instructor in SS 143 to complete enrollment.
Hours: 1-99 laboratory
Repeat: Unlimited
CCS: Non-Enhanced Funding
Transferable: Not transferable. Not degree applicable.

Administration of Justice Courses

ADMJ B40 Law and Democracy
3 units
Recommended: Reading - one level prior to transfer.
Description: An overview of practical aspects of civil, criminal, and constitutional law; development of skills in critical reading, writing problem solving, and oral communication with an emphasis on preparation for success in legal education; preparation for civic engagement and community-based learning.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges
ADMJ B60 Arrest and Control Techniques. PC 832
1 unit
Description: Introduces methods and regulations used by peace officers regarding the powers of arrest, and laws of search and seizure. Students will engage in weaponless self defense and physical arrest activities. Course is designed to meet the requirements of California Penal Code section 832 (PC 832), which establishes a minimum mandatory standard of training for peace officers in the State of California. Meets the Commission on Peace Officers Standards and Training (P.O.S.T.) requirements.
Hours: 9 lecture, 27 laboratory
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ADMJ B61 Firearms Training PC 832
0.5 unit
Prerequisites: ADMJ B60 with a grade of ‘C’ or better.
Limitation on Enrollment: Student must be fingerprinted prior to taking the class.
Description: Provides students with the competencies required for certification by Peace Officer Standards and Training (P.O.S.T.) for Penal Code section 832 Firearms. Students will engage in the use of firearms, which will include handgun familiarization; safety; care, cleaning and storage; firearms range qualifications.
Special Notice: Per Penal Code section 13511.5, students must obtain written clearance from the California Department of Justice verifying that they are not prohibited from possessing firearms.
Hours: 27 laboratory
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ADMJ B63 Power to Arrest (Security Guard Course)
0.2 unit
Description: Provide students with the knowledge and skills to pass the State of California mandated exam for a Security Guard Card and to function at the entry level of the security profession. Class meets the certification requirements for the Bureau of Security and Investigative Services from the California State and Consumer Services Agency.
Hours: 7 lecture, 1 laboratory
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ADMJ B81 Special Topics for Security Guards
0.2 unit
Description: Provides the required training security guards must complete within six months of employment as a security guard. Also covers the annual review and practice of security guard skills. Course meets the training requirements as set forth by the California Department of Consumer Affairs, Bureau of Security and Investigative Services.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not transferable. Not degree applicable.

Agriculture Business
Management Courses

AGBS B2 Agricultural Economics
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Course covers the role of agriculture in the economic system. Basic economic principles are applied to agriculture production, pricing and marketing. Emphasis placed on effects of state and federal farm programs on production agriculture economic position.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges; CSU GE D.2; BC GE D.2

AGBS B3 Introduction to Agriculture Business
3 units
Recommended: Reading - one level prior to transfer.
Description: Provides a basic understanding of the business and economics of the agricultural industry; an introduction to the economic aspects of agriculture and their implications to the agricultural producer, consumer and the food system; management principles encountered in the day to day operation of an agricultural enterprise as they relate to the decision making process.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges

AGBS B6 Agriculture Sales and Communication
3 units
Recommended: Reading - one level prior to transfer.
Description: The study of principles and practices of the selling process: selling strategies and approaches, why and how people buy, prospecting, territory management, and customer service. Self-management, communication, and interpersonal skills necessary in developing managerial abilities, leadership qualities, and facilitating teamwork within the agribusiness sector will be explored. Students will gain experience through opportunities to develop formal sales presentations and job shadowing. The course content is organized to give students an in-depth understanding of the factors and influences that affect the agribusiness industry on a day-to-day basis.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

Agriculture Courses

AGRI B1 Agriculture, Environment, and Society
3 units
Recommended: Reading - one level prior to transfer.
Description: Involves the sociology of agriculture presented through an examination of relationships between societies and their environments, economics, and agriculture. Emphasis on the analysis of agriculture’s use of technology and the corresponding impact on the environment, economy, and society. Satisfies the 0.5 unit educational planning requirement for graduation from Bakersfield College.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges; CSU GE D.7; BC GE D.2

AGRI B49 Agriculture Leadership Training
2 units
Description: Agriculture leadership training through the application of individual and group leadership techniques. Requires participation as: an Agriculture Ambassador team member in the promotion and understanding of California agriculture, participation in college recruitment activities (including giving recruitment presentations at off campus sites), hosting prospective student groups for on-campus visitations, and sponsoring recruitment activities for the local Agriculture industry. Field trips required.
American Sign Language Courses

ASL B1 American Sign Language 1
4 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Study of the fundamentals of American Sign Language. Introduces basic vocabulary and grammatical structure of ASL, conversational strategies, numbers, fingerspelling, and non-verbal aspects of American Sign Language. Provides an overview of Deaf history and Deaf cultural values. Outside assignments require practice and assessment with video programs. Field trips required.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 6.A; CSU GE C.2; BC GE C.2

ASL B2 American Sign Language 2
4 units
Prerequisites: ASL B1 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Continued study of the fundamentals of American Sign Language. Emphasizes conversational strategies such as keeping others informed, minimizing interruptions, and turn-taking, as well as grammatical forms such as verb agreement, negation, and role-shifting. Further instruction in specialized fingerspelling and numerical proficiency. Exploration of Deaf culture, emphasizing cultural norms and notable Deaf persons. Outside assignments require practice and assessment with video programs. Field trips required.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

ASL B3 American Sign Language 3
4 units
Prerequisites: ASL B2 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Study of advanced aspects of American Sign Language. Emphasizes advanced narrative fluency. Focus on temporal aspects, when clauses, classifiers, and mouth morphemes. Develops advanced narrative skills such as inflecting verbs, durative aspect, and transitions. Discussion of various aspects of American Deaf culture with a focus on literary tradition. Outside assignments require practice and assessment with video programs. Field trips required.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

ASL B4 American Sign Language 4
4 units
Prerequisites: ASL B3 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Continued study of advanced aspects of American Sign Language. Emphasizes receptive and expressive narrative fluency and Deaf rhetorical approaches. Focuses on specific linguistic aspects of ASL such as classifier combinations, role-shifting, conditionals, and expansion. Advanced practice with receptive and expressive fingerspelling. Also includes exploration of issues pertinent to Deaf culture. Outside assignments require practice and assessment with video programs. Field trips required.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 6.A; BC GE C.2

ASL B5 American Deaf Culture
3 units
Prerequisites: ASL B3 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Introduction to the practical and philosophical components of American Deaf culture, such as types and causes of deafness and the Deaf community as defined according to language, values, culture, and attitudes. Included is a study of Deaf advocacy, services, education, and legal rights of Deaf people. Field trips required.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges

ASL B6 American Deaf Culture
3 units
Prerequisites: ASL B3 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Exploration interpretation, and analysis of storytelling, folklore, poetry, and plays of the American Deaf community. Study and performance of ASL poetry, hand-shape and ABC stories. Study of Deaf folklore and other forms of “oral” storytelling traditions. Criticism and analysis of Deaf plays in written English.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

Animal Science Courses

ANSC B1 Introduction to Animal Science
3 units
Recommended: Reading - one level prior to transfer.
Description: Survey of the livestock industry, supply of animal products and their uses; special emphasis on the origin, characteristics, adaptation and contributions of farm animals to the global Ag industry; analysis of the economic trends and career opportunities in animal agriculture. Nutrition, digestive systems, breeds, selection, and reproduction are included in course. Field trips may be required.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges; BC GE B.1

ANSC B2 Beef Production
3 units
Recommended: ANSC B1. Reading - one level prior to transfer.
Description: Defines and appraises all segments of the beef industry, focusing on production, reproduction, marketing, and processing. History and development of important breeds and their contribution to the U.S. beef industry will be emphasized. Selection,
Covers major and common diseases of farm livestock, focusing on the cause, symptoms, treatment and prevention of the specific diseases. Students will learn fundamentals of the immune system and use of vaccines and pharmaceuticals. Safe use, particularly in food animals is stressed.

**Hours:** 54 lecture

**Prerequisites:** Either ANSC B83 or both ANSC B80 and ANSC B82 with grades of ‘C’ or better.

**Description:** Presents knowledge of diseases in small domestic animals, including prevention and treatment programs. Includes instruction in physical diagnosis and discussion of tests and procedures needed for proper diagnosis that the technician uses.
to assist veterinarian. Also covers animal husbandry procedures
relating to disease prevention. Disease entities to be taught include:
mechanical, genetic, infectious, nutritional, endocrine, and metabolic
conditions.
Hours: 27 lecture
CCS: Credit - degree applicable
Transferable: Associate Degree only Not transferable.

ANSC B85 Large Animal Diseases
1.5 units
Prerequisites: Either ANSC B83 or ANSC B80 with a grade of ‘C’ or
better.
Description: Covers diseases in large animals, including diagnosis,
prevention, and treatment programs. Includes instruction in physical
diagnosis and discussion of tests and procedures needed for proper
diagnosis. Instruction in animal nursing and husbandry procedures
relating to disease prevention will also be included. Disease entities
taught include infectious, nutritional, endocrine, mechanical and
metabolic conditions.
Hours: 27 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

ANSC B86 Pharmacology for Veterinary Technicians
1.5 units
Prerequisites: Either ANSC B83 or both ANSC B80 and ANSC B82
with grades of C or better.
Description: Instruct students with required knowledge of
pharmacological and biological agents used in veterinary medicine,
including calculations, classifications, action, and methods of
administration, dispensing and labeling, FDA, USDA, and DEA
guidelines regarding restricted and scheduled drugs, as they relate to
small animals and residue avoidance in food animals. Dosages,
agents, and administration of pharmaceuticals are covered.
Hours: 27 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

ANSC B88 Surgery, Dental, and Anesthesiology for
Veterinary Technicians
1.5 units
Prerequisites: Either ANSC B83 or both ANSC B80 and ANSC B82
with a grade of ‘C’ or better.
Description: Instruction in the identification and care of
instruments, the importance of asepsis and sterilization techniques,
surgical pack preparation, anesthetic instrumentation, induction
and monitoring, surgical nursing, assisting and instrumentation, and
suturing techniques used in veterinary medicine.
Hours: 27 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

ANSC B90 Emergency Medicine, Surgery/Nursing
Procedures for Veterinary Technicians
2 units
Prerequisites: Either ANSC B83 or both ANSC B80 and ANSC B82
with grades of ‘C’ or better.
Description: Provides the student with knowledge required to
recognized and provide emergency and critical care to veterinary
patient, including establishing a patent airway, administering
oxygen, controlling hemorrhage, performing CPR, and stabilizing
patient to prevent and/or treat shock.
Hours: 36 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

ANSC B92 Clinical Pathology for Veterinary Technicians
2 units
Prerequisites: Either ANSC B83 or both ANSC B80 and ANSC B82
with grades of ‘C’ or better.
Description: Course covers biology, microbiology, parasitological
cytology, urinalysis, hematology, serology, and pathology necessary
for a career as a Registered Veterinary Technician. The student will
be instructed in normal and abnormal test values. Course covers the
understanding, reading and application of specific test results, as
well as specimen handling and necropsy techniques.
Hours: 36 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

ANSC B94 Caged Birds, Laboratory, and Exotic Animal
Medicine
2 units
Prerequisites: Either ANSC B83 or both ANSC B80 and ANSC B82
with grades of ‘C’ or better.
Description: Covers anatomy, physiology, disease descriptions,
and identification of caged birds, laboratory, and exotic animals.
Instruction in restraint, physical examination, anesthesia,
surgery, specimen collection, species identification, and the legal
ramifications of owning exotic animals.
Hours: 36 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

ANSC B96 Radiology, Ultrasound, and Diagnostic
Imaging for Veterinary Technology
1.5 units
Prerequisites: Either ANSC B83 or both ANSC B80 and ANSC B82
with grades of ‘C’ or better.
Description: Course intended to give the student a sound
knowledge of the techniques used in physical imaging in veterinary
medicine. Includes history, statutes, and regulations, positioning
techniques, developing, and film and screen characteristics.
Instruction includes knowledge for preparing patient for imaging
(radiograph and ultrasonography), positioning patient for imaging,
safety during imaging, processing images/radiographic film, and
maintenance of imaging equipment.
Hours: 27 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

Anthropology Courses

ANTH B1 Physical Anthropology
3 units
Recommended: Reading - one level prior to transfer. Writing - one
level prior to transfer.
Description: Study of human biology through time. Examines the
biological development of the hominin lineage with consideration of
cultural developments. Topics include biology and genetics,
evolutionary processes and speciation, nonhuman primates,
examination of the hominin lineage through fossils and molecular
data, technological developments, and human diversity.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 5.B; CSU GE B.2;
BC GE B.1
ANTH B2 Cultural Anthropology

3 units

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Scientific study of contemporary cultures and their lifeways. Focuses on behavioral patterns, learning, diversity, and culture as an adaptive mechanism. Emphasis on examining the constituents of cultural systems holistically, and comparatively analyzing world cultures. Examples from cultures worldwide are presented in various formats.

Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 4A; CSU GE D.1; BC GE D.2

ANTH B3 Introduction to Archaeology

3 units

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Scientific study of past cultures and culture change. Emphasizes reconstruction of past lifeways through systematically examining material remains. Topics include fieldwork techniques, data analysis, dating methods, cultural change and adaptation, interpreting behavior patterns of past cultures, interactions between cultures and environments, and managing archaeological remains. Field trips may be required.

Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: ANTH 150
Transferable: UC, CSU and private colleges; IGETC 4A; CSU GE D.1; BC GE D.2

ANTH B5 North American Indians

3 units

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Detailed examination and comparative study of Native Peoples of North America from initial peopling of the New World to today. Topics include Native Peoples today, policies and laws, culture areas of North America, and specific cultures. Emphasis on pre-contact lifeways, cultural interactions, and cultural adaptations to environmental situations through time.

Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 4A; CSU GE D.1; BC GE D.2

Architecture Courses

ARCH B1 Intro to Architecture and Environmental Design

1.5 units

Description: Familiarization with the professional fields of architecture, landscape architecture, structural engineering construction and city/regional planning. Introduction to schools of architecture programs as they relate to individual aptitudes and the design process. Guest speakers.

Note: Satisfies 0.5 unit counseling requirement for graduation from Bakersfield College.

Hours: 27 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

ARCH B6 Materials of Construction

3 units

Description: Use of application of construction processes and materials. Field trips required.

Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

ARCH B11 Design and Perspective Drawing

4 units

Prerequisites: ARCH 11 with a grade of 'C' or better.

Description: Basic techniques used in graphic communications for the environmental design fields including orthographic projection, pictorials, perspectives, shades and shadows. Exercises to develop basic skills and speed in the representation of ideas.

Hours: 36 lecture, 108 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ARCH B12 Design, Drawing and Color

4 units

Prerequisites: ARCH 11 with a grade of 'C' or better.

Description: Drawing as a communication tool in the environmental design fields with further development of freehand and digital drawing with the addition of color application. Demonstrates the link between graphics, design process and communications. Field trips may be required.

Hours: 36 lecture, 108 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ARCH B16 Digital Tools for Graphics Communication

3 units

Description: An introduction to the use of digital tools in architectural design and visual communication in the areas of 3D modeling, image editing, 2D graphics and page layout.

Hours: 27 lecture, 81 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

ARCH B21 Architectural Design Fundamentals I

4 units

Prerequisites: ARCH B1, B11, B12 with grades of 'C' or better.

Description: Theories, principles, methods and means pertaining to the creation of two-and three-dimensional visual organizations to communicate intended concepts and meanings. Field trips required.

Materials Fee: $3.00
Hours: 36 lecture, 108 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ARCH B22 Architectural Design Fundamentals II

4 units

Prerequisites: ARCH B21 with a grade of 'C' or better.

Description: Continuation of the content and issues introduced in ARCH B21 plus the theories, principles, methods and means pertaining to the creation of architectural forms, space and organizations and incorporation of function and light as issues that shape the built environment and support the communication of intended concepts and meanings. Field trips required.

Materials Fee: $3.00
Hours: 36 lecture, 108 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges
ARCH B30 Residential Building Information Modeling
4 units
Prerequisites: ARCH B6
Description: Introduction to the application of computers in architecture with the use of Building Information Modeling (BIM), including operating systems, applications and graphic systems as they relate to construction documents and design technology. Residential wood construction methods and processes including construction documents. Not open to students who have successfully completed ARCH B31 and/or ARCH B32.
Materials Fee: $3.00
Hours: 27 lecture, 81 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ARCH B33 Architectural Computer Practice
3 units
Prerequisites: ARCH B30 with a grade of 'C' or better.
Description: This course uses computer applications as a communication instrument in the design development and construction document phases of a light commercial project. Theory and application of laws and codes as they affect such buildings are studied. Field trips required.
Materials Fee: $3.00
Hours: 27 lecture, 81 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ARCH B35 Residential Building Codes
3 units
Recommended: Reading - one level prior to transfer.
Description: Study of the uniform building codes, local codes and related ordinances. Fundamental structural concepts involved in code work, code interpretation and enforcement. Field trips required.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

ARCH B36 Commercial Codes
3 units
Recommended: Reading - one level prior to transfer
Description: Study of the uniform building, plumbing, mechanical and electrical codes as they relate to Commercial Construction. A companion course to ARCH B35 offering a greater in-depth study of the various codes which make up the Code of Building Regulations. Field trips may be required.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

Art Courses

ART B1 Art Appreciation
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Lecture course which presents a broad introduction to the visual arts from prehistory to the present. The role of art in the creation of world culture, as well as art processes and visual vocabulary are examined. Intended for non-Art majors.
Hours: 54 lecture
CCS: Credit Course
C-ID: ARTH 100

ART B2 Drawing I
3 units
Recommended: Reading - one level prior to transfer
Description: Course introduces the fundamentals of representational drawing. The visual vocabulary and design principles and elements are covered, as related to drawing. Media may include pencil, ink, charcoal, conte, pastels, and watercolor.
Hours: 27 lecture, 81 laboratory
CCS: Liberal Arts/Science
C-ID: ARTS 110
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

ART B3 Drawing II
3 units
Prerequisites: ART B2 or equivalent with grade of 'C' or better.
Recommended: Reading - one level prior to transfer
Description: A continuation of ART B2. Builds on the conceptual and technical aspects of drawing; as well as an increased exploration of media and techniques. An increased use of color is required.
Hours: 27 lecture, 81 laboratory
CCS: Liberal Arts/Science
C-ID: ARTS 100
Transferable: UC, CSU and private colleges

ART B4 Two-Dimensional Design
3 units
Recommended: Reading - one level prior to transfer
Description: Examines the principles and elements of two-dimensional design. Content includes: elements and principles of design, color theory, art terminology and analysis of form and content.
Note: Not open to students who have successfully completed ART B3A, B3B, or ART B3AB.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
C-ID: ARTS 101
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

ART B5 Three-Dimensional Design
3 units
Recommended: Reading - one level prior to transfer
Description: Introduction to form, structure, the elements of design and three-dimensional design theory. Course includes an exploration of various materials and techniques, with an emphasis on the creative process.
Hours: 27 lecture, 81 laboratory
CCS: Liberal Arts/Science
C-ID: ARTS 102
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

ART B6 Acrylic Painting I
3 units
Prerequisites: ART B2 with a grade of 'C' or better or equivalent.
Recommended: Reading - one level prior to transfer
Description: Introduction to principles, elements, and practices of painting. Focus on exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter.
Note: Not open to students who have successfully completed ART B4a, B4b or ART B4ab.
ART B7 Acrylic Painting II
3 units
Prerequisites: ART B6 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: Introductory course in drawing from live models. Emphasis is placed upon personal exploration of form and expression of the human figure. Media may include pencil, ink, charcoal conte, pastels, and watercolor.
Note: Not open to students who have successfully completed ART B4c, B4d, or ART B4cd.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges

ART B8 Figure Drawing I
3 units
Prerequisites: ART B2 with a grade of ‘C’ or better, or equivalent.
Recommended: Reading - one level prior to transfer.
Description: Introductory course in drawing from live models. Emphasis is placed upon personal exploration of form and expression of the human figure. Media may include pencil, ink, charcoal conte, pastels, and watercolor.
Note: Not open to students who have successfully completed ART B2e, B2f or ART B2ef.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
C-ID: ARTS 200
Transferable: UC, CSU and private colleges

ART B9 Figure Drawing II
3 units
Prerequisites: ART B8 or ART B2EF or equivalent with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: Drawing course, using live models, is a review and refinement of drawing techniques and exercises that are introduced in ART B8. Emphasis is placed upon more personal expression of the human figure. Media may include pencil, ink, charcoal, conte pastels, and watercolor.
Note: Not open to students who have successfully completed ART B2G, B2H, or ART B2GH.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges

ART B10 Ceramics I
3 units
Recommended: Reading - one level prior to transfer.
Description: Introductory level ceramics course in which students design and construct hand-built and wheel-thrown ceramic objects. Students learn form and surface enrichment, use glazes, and load kilns. Serves students interested in developing fundamental ceramic skills.
Note: Not open to students who have successfully completed ART B7A, B7B, or ART B7AB.
Materials Fee: $15.00 for finished ceramic artwork, glazes, and some clay.
Hours: 27 lecture, 81 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE C.1

ART B11 Ceramics II
3 units
Prerequisites: ART B10 or equivalent with a grade of ‘C’ or better or ART B7A, B7B, or ART B7AB with grades of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: Continuation of ART B10. Expanding the skills in forming techniques, wheel-throwing and slab construction; various glaze applications. Exploration of building and surface treatments including slip casting, site specific and installation work. Raku and other firing techniques are covered.
Note: Not open to students who have successfully completed ART B7C, B7D, or ART B7CD.
Materials Fee: $15.00 covers cost of glazes and some clay, and students will receive finished ceramic artwork.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges

ART B12 Ceramics III
3 units
Prerequisites: ART B11 or equivalent with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: Designed for students interested in developing a personal style in their work. Advanced wheel-throwing and hand building techniques, glaze application and formulation. Includes theory and practical application of kiln operation, electric and gas fired, oxidation and reduction.
Note: Not open to students who have successfully completed ART B7E and B7F or ART B7EF.
Materials Fee: $15.00 covers cost of glazes and some clay, and students will receive finished ceramic artwork.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges

ART B13 Sculpture I
3 units
Prerequisites: ART B5 with a grade of ‘C’ or better
Recommended: Reading - one level prior to transfer.
Description: Introduces sculptural concepts and investigates their translation into three-dimensional forms. Problems involving various technical means are explored. Students investigate the role of materials and techniques in the creative process.
Note: Not open to students who have successfully completed ART B11A and B11B, or ART B11AB.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE C.1

ART B14 Sculpture II
3 units
Prerequisites: ART B13 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: Advanced study in sculptural concepts and three-dimensional forms. Explores the expressive meaning of form and the expressive potential of materials.
Note: Not open to students who have successfully completed ART B11cd.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges

ART B16 Digital Photography
3 units
Prerequisites: ART B15 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: Introduces digital photography concepts and techniques. Students will learn the fundamentals of digital photography including composition, exposure, and post-processing. Students will use digital cameras and computers to produce high-quality photographs.
Note: Not open to students who have successfully completed ART B15.
Materials Fee: $15.00 covers cost of digital cameras and software.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges
ART B17 Black and White Photography
3 units
Recommended: Reading - one level prior to transfer.
Description: In this course students will study the basic principles of cameras, optics, light, film development, exposure, exposure meters, and enlarge. Photographic quality, exploration of the photographers environment, and personal expression is emphasized. A suitable 35mm film camera is required.
Note: Not open to students who have successfully completed ART B17AB, or ART B17A and B17B.
Materials Fee: $25.00
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE C.1

ART B20 Digital Art I - Vector Art
3 units
Recommended: Reading - one level prior to transfer.
Description: Foundational course introducing vector art and the use of digital technology as a design tool. Through a series of projects, students create original artwork and explore elements and principles of design.
Materials Fee: $15.00 for toner and paper. Students will receive a portfolio of printed work.
Hours: 27 lecture, 81 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges; BC GE C.1

ART B24 Digital Art II - Raster Art
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Introduces raster art as used in commercial digital media. Through a series of projects, students create original artwork and refine their design skills. Image creation, scanning, editing, composition, re-touching, and problem solving are explored. Elements, principles and language of design are reviewed.
Materials Fee: $15.00 for toner and paper. Students will receive a portfolio of printed work.
Hours: 27 lecture, 81 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges; BC GE C.1

ART B25 Typography
3 units
Prerequisites: ART B20 and ART B24 with grades of ‘C’ or better or equivalent.
Recommended: Reading - one level prior to transfer.
Description: Course focuses on effective letterform usage in visual media. Students create typographic design solutions and explore the evolution of letterforms from ancient to contemporary. Projects feature investigation of structure, format, legibility, and expression.

ART B29 Special Studies in Art
1-3 units
Recommended: Reading - one level prior to transfer.
Description: Independent study course intended for students pursuing deep exploration into a specific body of work. Content and unit credit are determined by instructor and student in consultation. Enrollment by permission of instructor only.
Hours: 54 laboratory hours for each unit (54-162)
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

ART B35 Survey of Western Art I
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: This course is a historical survey of Western architecture and visual arts beginning in the Paleolithic age (30,000 BC) and continuing through Proto-Renaissance Europe (1400 CE).
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

ART B36 Survey of Western Art II
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: This lecture course is a historical survey of Western architecture and visual arts from 1400 CE to the present day.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

ART B37 Survey of Art - Latin America
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Historical survey of the arts in Latin America. Focuses on the Spanish-speaking regions of the Americas, as well as Cuba and the Dominican Republic. Students examine artistic contributions by Latin American artists from pre-history through colonial and modern art forms.
Note: Not open to students who have successfully completed CHST B30E or ART B30E.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

ART B40 Digital Illustration
3 units
Prerequisites: ART B25 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: Course introduces illustration for editorial, technical, scientific, and informational publication. Emphasis is placed on problem solving and the importance of concept development. Typography is considered as an integral element to illustration projects.

Note: Not open to students who have successfully completed ART B22.

Materials Fee: $15.00 for toner and paper. Students receive a portfolio of printed work.

Hours: 27 lecture, 81 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

ART B48 Advanced Photography III - Independent Study

1-3 units

Prerequisites: ART B47 or equivalent with a grade of ‘C’ or better.

Recommended: Reading - one level prior to transfer.

Description: Strengthening of graphic visualization and technical skills through challenging individual assignments, in preparation for professional experience. A suitable manually adjustable camera is required. Content and unit credit are determined by the instructor and student in consultation. Evaluation by instructor of students photography skills.

Materials Fee: $15.00

Hours: 54 laboratory hours for each unit (54-162)

CCS: Occupational Education

Transferable: CSU and private colleges

Astronomy Courses

ASTR B1 Physics of the Cosmos

3 units

Prerequisites: Reading - one level prior to transfer.

Recommended: Writing - one level prior to transfer. Mathematics - two levels prior to transfer.

Description: Introductory course emphasizing the application of physics to understand the physical processes on the Earth and beyond the Earth and how we know those processes are occurring while still being bound to the Earth (or our solar system). The processes and philosophy of science are examined from the astronomical perspective. Among topics included: the motions, properties, and evolution of the Sun, planets (including exoplanets), stars, galaxies, and the universe and how we know about them; the analysis of electromagnetic radiation; atomic structure; astronomical instruments; brief history of astronomy; Newton's law of gravity; general relativity.

Hours: 54 lecture

CCS: Credit Course

Transferable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

ASTR B2 Life in the Universe

3 units

Prerequisites: Reading - one level prior to transfer.

Recommended: Writing - one level prior to transfer. Mathematics - two levels prior to transfer.

Description: Introductory course on the scientific search for life in the universe. The process and philosophy of science are examined from the astronomical and biological perspectives. Among topics included: the definition and nature of life, the formation and development of the Earth and life on the Earth, other places in our solar system that might have habitats for life, habitable zones around other stars, how we detect extrasolar planets, how we could detect biological activity on extrasolar planets, the search for extraterrestrial intelligence, interstellar travel, and implications of making contact.

Hours: 54 laboratory

CCS: Credit Course

Transferable: UC, CSU and private colleges


ASTR B3 Solar System
3 units
Prerequisites: Reading - one level prior to transfer.
Recommended: Writing - one level prior to transfer. Mathematics - two levels prior to transfer.
Description: Introductory course on the Sun, Earth, other planets, moons, rings, comets, asteroids, and extra-solar planets, formation and development of the Earth and solar system, and possibility of life on other worlds.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

Automotive Technology Courses

AUTO B1AB Introduction to Automotive Technology
4 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to the operation and maintenance of the modern automobile with emphasis on the theory of the basic operating systems. These systems include a) the engine and its systems (lubrication, cooling, fuel emissions controls), b) electrical systems (battery, starting, charging, lighting, and ignition), c) the chassis (suspension, wheel alignment, steering, brakes, tires, and wheels), and d) the drive line (clutch, standard, and automatic transmissions, universal joints and differential). Not open to students with credit in AUTO B1, B1A, or B1B.
Hours: 54 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges, elective credit only

AUTO B2A Engine Repair and Machining
9 units
Recommended: AUTO B1AB or evaluation of previous experience by instructor.
Description: This course covers the acquisition of practical skills required for accurate internal combustion engine diagnosis, repair and all phases of engine rebuilding machine work. Demonstrated lecture, simulated problem diagnosis and practical application on live vehicles will be used. Individual instruction on engine rebuilding machinery & tools is an integral part of this course. Engine theory, design, diagnosis, repair, practical and theoretical high performance modifications are all part of this course. Preparation for the A1 and A8 ASE exams will be covered. Theory of internal combustion, piston-type engine design and maintenance. Practice in engine overhaul procedures and mechanical problems diagnosis. This course is similar to Auto B75B but includes more lab hours. The extended lab time offers a greater degree of practical experience.
Materials Fee: $15.00 for Hazmat removal, solvents and cleaners.
Hours: 108 lecture, 108 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges, elective credit only

AUTO B2B Advanced Engine Repair and Machining
9 units
Prerequisites: AUTO B2a with a grade of ’C’ or better
Description: This course covers the acquisition of advanced skills required for accurate internal combustion engine diagnosis, repair and all phases of engine rebuilding machine work. Demonstrated lecture, simulated problem diagnosis and practical application on “live” vehicles will be used. Individual instruction on advanced engine rebuilding machinery & tools is an integral part of this course. Advanced engine theory, design, diagnosis, repair, practical and theoretical high performance modifications are all part of

AUTO B3 Fundamentals of Automotive Management and Services
4 units
Recommended: AUTO B1AB with a grade of ’C’ or better. Reading - one level prior to transfer.
Description: The course covers critical knowledge and skills necessary to prepare traditional and non-traditional students for employment in four positions within the service management operations of automotive dealerships/businesses and shops. The positions are: 1) Service Writer/Adviser, 2) Parts-Sales and Service (Parts Counter Person), 3) Warranty Specialist and 4) DMV Specialist.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
Transferable: Associate degree only. Not transferable.

AUTO B14 Auto Tune-Up: Electrical/Ignition/Accessories
11 units
Recommended: AUTO B1ab with a grade of ’C’ or better, or one year of automotive repair work experience. Reading - one level prior to transfer
Description: Prepares for ASE A6, A8 exams. Fundamentals of automotive electrical/electronic component repair. Includes electrical theory, diagnosis and repair of battery, starting, charging and ignition systems including computer controlled systems. Laboratory emphasis on computerized diagnosis of the modern automobile.
Note: Elective credit only.
Hours: 162 lecture, 108 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges, elective credit only

AUTO B15 Auto Tune-Up: Fuel Systems and Emissions Controls
11 units
Recommended: AUTO B1ab with a grade of ’C’ or evaluation by instructor of previous work experience. Reading - one level prior to transfer
Description: Theory, operation, and servicing of automotive fuel systems, emission systems and advanced engine performance. Prepares for the ASE A8 exam.
Hours: 162 lecture, 108 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges, elective credit only

AUTO B56A Diesel Engines and Systems Basics
2 units
Recommended: Reading - one level prior to transfer
Description: Diesel technology used in agriculture and transportation industries, covers principles of operation, diagnosis and service.
Hours: 18 lecture, 18 laboratory
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Materials Fee</th>
<th>Hours</th>
<th>CCS:</th>
<th>Transferable</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B56B</td>
<td>Diesel Engines and Systems Basics</td>
<td>2</td>
<td>Recommended: Reading - one level prior to transfer. <strong>Description:</strong> Diesel technology used in agriculture and transportation industries, covers principles of operation, diagnosis and service.</td>
<td><strong>Prerequisites:</strong> AUTO B1ab with grades of ‘C’ or better, or one year of automotive repair work experience in automotive performance and emissions.</td>
<td>$15.00</td>
<td>18 lecture, 18 laboratory</td>
<td>Occupational Education</td>
<td>Not degree applicable. Not transferable.</td>
</tr>
<tr>
<td>AUTO B59</td>
<td>Automotive Air Conditioning</td>
<td>4</td>
<td><strong>Description:</strong> Prepares for the ASE A7 and T7 exams. Safety, principles and theory of automotive air conditioning systems, laboratory practice in the service and repair of automotive heating, ventilation and air conditioning components.</td>
<td><strong>Prerequisites:</strong> Reading - one level prior to transfer. AUTO B1ab with grades of ‘C’ or better, or one year of automotive repair work experience in automotive performance and emissions.</td>
<td>$15.00</td>
<td>54 lecture, 54 laboratory</td>
<td>Occupational Education</td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>AUTO B61</td>
<td>Basic and Enhanced Area Clean Air Car Course</td>
<td>4</td>
<td><strong>Recommended:</strong> Reading - one level prior to transfer. <strong>Description:</strong> Prepares for the ASE A6-6, A-8, and L-1 tests. Elements of class are mandated by the California Department of Consumer Affairs Bureau of Automotive Repair and are subject to periodic change and addition by that agency. Not open to students who have taken the equivalent courses, AUTO B65a and/or AUTO B65b.</td>
<td><strong>Prerequisites:</strong> Reading - one level prior to transfer.</td>
<td>$15.00</td>
<td>54 lecture, 54 laboratory</td>
<td>Credit Course</td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>AUTO B64</td>
<td>Automotive Electricity and Electronics</td>
<td>4</td>
<td><strong>Recommended:</strong> Reading - one level prior to transfer. <strong>Description:</strong> Prepares for the ASE A6 exam.</td>
<td><strong>Prerequisites:</strong> Reading - one level prior to transfer.</td>
<td>$15.00</td>
<td>54 lecture, 54 laboratory</td>
<td>Occupational Education</td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>AUTO B75A</td>
<td>Introduction to Engine Overhaul</td>
<td>3</td>
<td><strong>Recommended:</strong> AUTO B1ab <strong>Description:</strong> This course covers the acquisition of basic, practical skills required for accurate internal combustion engine diagnosis, repair and all phases of engine rebuilding machine work. Demonstrated lecture, simulated problem diagnosis and practical application on live vehicles will be used. Individual instruction on engine rebuilding machinery &amp; tools is an integral part of this course. Preparation for the A1 and A8 ASE exams will be covered. Theory of internal combustion, piston-type engine design and maintenance.</td>
<td><strong>Prerequisites:</strong> AUTO B1ab</td>
<td>$15.00</td>
<td>36 lecture, 54 laboratory</td>
<td>Occupational Education</td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>AUTO B75B</td>
<td>Engine Repair Techniques</td>
<td>3</td>
<td><strong>Prerequisites:</strong> AUTO B75a with a grade of ‘C’ or higher. <strong>Description:</strong> This course covers the acquisition of advanced skills required for accurate internal combustion engine diagnosis, repair and all phases of engine rebuilding machine work. Demonstrated lecture, simulated problem diagnosis and practical application on live vehicles will be used. Preparation for the A1 and A8 ASE exams will be covered. Theory of internal combustion, piston-type engine design and maintenance. Practice in engine overhaul procedures and mechanical problems diagnosis.</td>
<td><strong>Prerequisites:</strong> AUTO B75a with a grade of ‘C’ or higher.</td>
<td>$15.00</td>
<td>36 lecture, 54 laboratory</td>
<td>Occupational Education</td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>AUTO B75C</td>
<td>Advanced Engine Overhaul</td>
<td>3</td>
<td><strong>Prerequisites:</strong> AUTO B75b with a grade of ‘C’ or better. <strong>Description:</strong> Application of engine overhaul theory and procedures, including component inspection and tolerances, is covered in this class. Advanced engine theory, design, diagnosis, repair; practical and theoretical high performance modifications are all part of this course. This class also provides additional lab hours during which the students will complete specific lab tasks associated with this class.</td>
<td><strong>Prerequisites:</strong> AUTO B75b with a grade of ‘C’ or better.</td>
<td>$15.00</td>
<td>18 lecture, 108 laboratory</td>
<td>Credit Course</td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>AUTO B75D</td>
<td>Advanced Engine Machining</td>
<td>3</td>
<td><strong>Prerequisites:</strong> AUTO B75c with a grade of ‘C’ or better. <strong>Description:</strong> Application of engine overhaul theory and procedures, including reassembly and initial startup procedures, is covered in this class. Individual instruction on advanced engine rebuilding machinery &amp; tools is an integral part of this course. Advanced engine theory, design, diagnosis, repair; practical and theoretical high performance modifications are all part of this course. This class also provides additional lab hours during which the students will complete specific lab tasks associated with this class.</td>
<td><strong>Prerequisites:</strong> AUTO B75c with a grade of ‘C’ or better.</td>
<td>$15.00</td>
<td>18 lecture, 108 laboratory</td>
<td>Credit Course</td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>AUTO B106</td>
<td>Auto Brakes/Suspension/Alignment</td>
<td>9</td>
<td><strong>Prerequisites:</strong> AUTO B1AB, AUTO B14, AUTO B15, or AUTO B64, with a grade of ‘C’ or better. <strong>Recommended:</strong> Reading - one level prior to transfer. <strong>Description:</strong> A comprehensive course in automotive and light truck brakes, alignment, suspension, and steering systems. Designed to give students the skills and knowledge to diagnose and repair these systems to industry standards.</td>
<td><strong>Prerequisites:</strong> AUTO B1AB, AUTO B14, AUTO B15, or AUTO B64, with a grade of ‘C’ or better.</td>
<td>$15.00</td>
<td>108 lecture, 162 laboratory</td>
<td>Credit Course</td>
<td>Associate Degree only. Not transferable.</td>
</tr>
</tbody>
</table>
BIOL B3A General Biology I
5 units
Prerequisites: MATH BD or MATH B70 with a grade of 'C' or better and Reading - one level prior to transfer.
Description: Introductory course for students majoring in the biological sciences or pursuing pre-professional programs of study such as pre-medical, pre-pharmacy, pre-dentistry. Emphasizes scientific processes and methods of biology including original research. Explores unifying principles of micro- and macro-evolutionary processes, biodiversity of organisms, systematics, principles of ecology, animal behavior and plant biology. Field trips required.
Hours: 54 lecture, 108 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2; BC GE B.1

BIOL B3B General Biology II
5 units
Prerequisites: CHEM B1a with a grade of 'C' or better.
Description: Principles of cell biology, molecular biology, metabolism, biochemistry, molecular genetics, and physiology. Field trips required.
Hours: 54 lecture, 108 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2

BIOL B7 Environmental Biology
4 units
Prerequisites: Reading - one level prior to transfer.
Description: Introduction to environmental science with major consideration given to the processes that sustain human life on this planet. Topics include: the relevance of ecology to human affairs; current biological and physical environmental issues; population ecology; biogeochemical cycles; ecosystems and biodiversity including introduced and endangered species; energy flow through ecosystems; pollution and wastes; global changes; environmental economics and ethics; and potential ecological effects on the future of the planet.
Hours: 54 lecture, 54 laboratory
CCS: Liberal Arts/Science

BIOL B11 Concepts of Biology
4 units
Prerequisites: Reading - one level prior to transfer.
Description: A non-majors introductory course that applies biological concepts to issues of everyday life. Concepts considered include scientific method; ecosystems and energy flow; organization, structure, function, behavior and evolution of organisms; inheritance; disease; ethics. Field trips may be required.
Hours: 54 lecture, 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2; BC GE B.1

BIOL B16 General Microbiology
5 units
Prerequisites: Reading - one level prior to transfer and BIOL B3A or BIOL B3B or BIOL B20 or BIOL B32 or BIOL B33 AND CHEM B1A or CHEM B11 or CHEM B18 with grades of 'C' or better.
Description: Introduction to the study of microorganisms including: survey of microorganisms, history of microbiology, microbial control through physical and chemical agents, bacterial genetics and biogenetic engineering, bacterial metabolism, bacterial, fungal, protozoal, helminth and viral diseases by transmission. In addition, immunology, public health epidemiology, nosocomial infections, and microbial applications to food, water and sewage treatment are discussed. Field trips required.
Hours: 54 lecture, 108 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2; CSU GE B.3; BC GE B.1

BIOL B18 Essentials of Human Anatomy and Physiology
4 units
Prerequisites: Reading - one level prior to transfer.
Description: An integrated life science course specifically targeted for students in allied health programs. Topics include microscopic and gross anatomy as well as physiology of all human organ systems; skeletal, muscular, cardiovascular, lymphatic/immune, respiratory, digestive, excretory, nervous, endocrine, reproductive and integumentary. Additional topics will address cell structure and function, human development and human heredity.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
Transferable: CSU and private colleges; CSU GE B.2; CSU GE B.3; BC GE B.1

BIOL B20 Human Biology
4 units
Prerequisites: Reading - one level prior to transfer.
Description: An introductory biology course designed specifically for non-science majors, covering basic chemical principles of life, cell and tissue structure and function, human anatomy and physiology, health aspects, and genetics. Topics include evolution, population growth and environmental impact on humans. Field trips required.
Hours: 54 lecture, 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2; BC GE B.1
BIOL B21 Special Projects in Biology
0.5-2 units
Prerequisites: Reading - one level prior to transfer. Any college-level biology course with a grade of 'C' or better.
Description: Individually directed work in biology laboratory. Students will learn biological preparation, and/or development of teaching materials while assisting in a biology laboratory.
Hours: 27 for each .5
CCS: Liberal Arts/Science
Transferable: CU and private colleges

BIOL B32 Human Anatomy and Physiology I
4 units
Prerequisites: Reading - one level prior to transfer.
Description: This is the first part of a two-semester integrated anatomy and physiology sequence that covers the structure, function, integration and homeostasis of the human body at the cellular, tissue, organ, organ system and organism level, including the integumentary, skeletal, muscular, nervous, sensory, cardiovascular, lymphatic, immune, respiratory, urinary, digestive, endocrine, and reproductive systems. This series meets the diverse needs of students seeking careers in such allied health fields as nursing, pharmacy, and physician’s assistant. It is strongly recommended that students complete the entire Anatomy and Physiology sequence at the same institution as the material may not be covered in the same semester order at different schools. Therefore students taking one semester at one school may not be given credit for the same semester at a different school.
Note: Completion of BIOL B32 and B33 is equivalent to C-ID BIOL 115S, where credit is given for both Human Anatomy (C-ID BIOL 110) and Human Physiology (C-ID BIOL 112) by completing a two-semester blended course. BIOL B32 or BIOL B33 alone do not give credit for C-ID BIOL 110 (Anatomy) or C-ID BIOL 112 (Physiology) but only 4 units for a GE lab science.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
C-ID: BIOL 115S
Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2; BC GE B.1

BIOL B33 Human Anatomy and Physiology II
4 units
Prerequisites: BIOL B32 with a grade of 'C' or better.
Description: This is the second part of a two-semester integrated anatomy and physiology sequence that covers the structure, function, integration and homeostasis of the human body at the cellular, tissue, organ, organ system and organism level, including the integumentary, skeletal, muscular, nervous, sensory, cardiovascular, lymphatic, immune, respiratory, urinary, digestive, endocrine, and reproductive systems. This series meets the diverse needs of students seeking careers in such allied health fields as nursing, pharmacy, and physician’s assistant. It is strongly recommended that students complete the entire Anatomy and Physiology sequence at the same institution as the material may not be covered in the same semester order at different schools. Therefore, students taking one semester at one school may not be given credit for the same semester at a different school.
Note: Completion of BIOL 32 + BIOL 33 is equivalent to C-ID BIOL 115S, where credit is given for both Human Anatomy (C-ID BIOL 110) and Human Physiology (C-ID BIOL 112) by completing a two-semester blended course. BIOL 32 or BIOL 33 alone do not give credit for C-ID BIOL 110 (Anatomy) or C-ID BIOL 112 (Physiology) but only 4 units for a GE lab science.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course

Business Administration Courses

BSAD B1 Financial Accounting
4 units
Prerequisites: Mathematics - one level prior to transfer; or MATH BD/B70 with a grade of ‘C’ or better. Reading - one level prior to transfer or ACDV B50 with a grade of ‘C’ or better.
Description: This is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics.
Hours: 72 lecture
CCS: Credit Course
C-ID: ACCT 110
Transferable: UC, CSU and private colleges

BSAD B2 Managerial Accounting
3 units
Prerequisites: BSAD B1 with a grade of 'C' or better.
Description: This is the study of how managers use accounting information in decision-making, planning, directing operations and controlling. Focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Includes issues relating to cost systems, cost control, profit planning, and performance analysis in manufacturing and service environments.
Hours: 54 lecture
CCS: Occupational Education
C-ID: ACCT 120
Transferable: UC, CSU and private colleges

BSAD B5 Human Relations/People Skills
3 units
Recommended: Reading - one level prior to transfer. Writing - two levels prior to transfer.
Description: A behavior approach to the business environment including self-understanding, motivation techniques as related to the workplace and issues affecting morale, discrimination and developing leadership techniques for success. Provides insight on the effects of drugs and alcoholism on the individual and work
group. Emphasizes career selection and the important facets of communication and skill building.

**BSAD B9 Fundamentals of Marketing**

<table>
<thead>
<tr>
<th>3 units</th>
</tr>
</thead>
</table>

**Recommended:** Reading - one level prior to transfer

**Description:** Survey of marketing, including consumer behavior; company and environmental analysis; market segmentation; product development; pricing, promotion, and distribution.

**Note:** Elective credit only.

**Hours:** 54 lecture

**CCS:** Occupational Education

**Transferable:** CSU and private colleges

**BSAD B18 Business Law**

<table>
<thead>
<tr>
<th>3 units</th>
</tr>
</thead>
</table>

**Recommended:** Reading - one level prior to transfer.

**Description:** Fundamental legal principles pertaining to business transactions. Introduction to the legal process. Topics include sources of law and ethics, contracts, torts, agency, criminal law, business organizations, and judicial and administrative processes.

**Hours:** 54 lecture

**CCS:** Occupational Education

**Transferable:** UC, CSU and private colleges

**BSAD B19 Business Law: Business Entities and Estates**

<table>
<thead>
<tr>
<th>1 unit</th>
</tr>
</thead>
</table>

**Recommended:** Reading - one level prior to transfer.

**Description:** This course will cover business organizations including sole ownership, partnerships, and corporations. It will also include discussions of wills and trusts. Business students transferring to CSUB are advised to take this course in addition to BSAD B18 to match CSUB’s ACC 275.

**Hours:** 18 lecture

**CCS:** Occupational Education

**Transferable:** CSU and private colleges

**BSAD B20 Introduction to Business**

<table>
<thead>
<tr>
<th>3 units</th>
</tr>
</thead>
</table>

**Recommended:** Reading - one level prior to transfer.

**Description:** A survey in business providing a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization’s policy and practices within the U.S. and a global society. Demonstrates how these influences impact the primary areas of business including organizational structure and design; leadership, human resource management, organized labor practices; marketing: organizational communication; technology; entrepreneurship; legal, accounting, financial practices; the stock and securities market; and therefore affect a business ability to achieve its organizational goals.

**Hours:** 54 lecture

**CCS:** Occupational Education

**Transferable:** UC, CSU and private colleges; BC GE D.2

**BSAD B40 Personal Finance**

<table>
<thead>
<tr>
<th>3 units</th>
</tr>
</thead>
</table>

**Recommended:** Reading - one level prior to transfer. Mathematics - two levels prior to transfer.

**Description:** Principles and skills of budgeting, making intelligent consumer choices related to consumer credit, banking services, insurance, taxes, transportation, investing for personal retirement, and real estate planning.

**Hours:** 54 lecture

**CCS:** Occupational Education

**Transferable:** CSU and private colleges

**BSAD B43 Principles of Management**

<table>
<thead>
<tr>
<th>3 units</th>
</tr>
</thead>
</table>

**Recommended:** Reading - one level prior to transfer.

**Description:** A study of formal organizations, the organizational environment and organizational planning and control. Topics include the nature of complex organizations, decision-making, small group studies and individual behavior. Also included are planning theory, systems management, and non-formal behavior.

**Note:** For elective credit only.

**Hours:** 54 lecture

**CCS:** Occupational Education

**Transferable:** CU and private colleges

**BSAD B51 Business Mathematics**

<table>
<thead>
<tr>
<th>3 units</th>
</tr>
</thead>
</table>

**Description:** Basic arithmetic skills reviewed and applied to the solution of business problems. Emphasizes bank records, invoices, cash and trade discounts, markup and markdown, inventory valuation, payroll, simple and compound interest, promissory notes, installment buying, stocks and bonds, amortization, real estate loans, property tax, personal income tax, depreciation, and insurance.

**Hours:** 54 lecture

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**BSAD B53A Introduction to Accounting 1**

<table>
<thead>
<tr>
<th>3 units</th>
</tr>
</thead>
</table>

**Recommended:** Reading - two levels prior to transfer.

**Description:** An introduction to modern financial accounting theory and practice. Analysis of financial transactions using the rules of double-entry bookkeeping. Accounting cycle including adjusting entries, the expanded worksheet, the use of special journals, bank reconciliations and the preparation of financial statements.

**Hours:** 54 lecture

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**BSAD B53B Introduction to Accounting 2**

<table>
<thead>
<tr>
<th>3 units</th>
</tr>
</thead>
</table>

**Prerequisites:** BSAD B53a with grade of ‘C’ or better

**Description:** A continuation of an introduction to modern financial accounting theory and practice. Analysis of financial transactions peculiar to the partnership and inventory, accounts receivable, notes payable, notes receivable and drafts, depreciation, depletion and amortization, capital stock transactions, bonds and other long-term liabilities and Statement of Cash Flows.

**Hours:** 54 lecture

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**BSAD B54 Payroll Accounting**

<table>
<thead>
<tr>
<th>3 units</th>
</tr>
</thead>
</table>

**Prerequisites:** BSAD B53a or BSAD B1 with grades of ‘C’ or better

**Description:** A foundation in payroll computations, payroll record keeping, and the filing of quarterly and annual payroll tax reports. Involves the study of California Disability Insurance, California
Unemployment Insurance, Federal Social Security, Federal Income Tax, and how these taxes affect the employee/employer.

**BSAD B55 Computer Accounting Applications**  
3 units  
**Prerequisites:** BSAD B1 or BSAD B53b with a grade of C or better.  
**Description:** Review and practical application of accounting principles, electronic spreadsheets, word processing and data management as they pertain to solution of accounting problems and situations on a microcomputer. Emphasizes analysis of problems and student initiative to solve the problems presented using computerized software available.  
**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

---

BSAD B61 Human Resources Management  
3 units  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Comprehensive study and review of human resources management. Focuses on strategic planning, the nature and function of hiring, recruitment, training, development and retention of employees and staff. Topics include performance appraisals, compensation, motivation, retraining, disciplinary action, labor relations, and contract negotiations. Course also emphasizes federal, state and local laws as they apply to employers and employees in both the private and public sector.  
**Formerly:** MGMT B41 and MGMT B61  
**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

---

BSAD B65 Principles of Organizational Communication  
3 units  
**Description:** Examination of written and oral communication in the business world. Course will examine the processes of human behavior and communication within the organizational context. It will test the principles of English writing skills and communication in the business office. Focuses on writing letters, memorandums, e-mails, resumes, reports and oral presentations. Course will define the barriers to effective communication and teach the appropriate techniques to overcome poor communication skills.  
**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

---

BSAD B85 Business English  
3 units  
**Description:** Basic English grammar course focusing on nouns, pronouns, verbs, adjectives, adverbs, conjunctions, and prepositions. Also includes standard punctuation, capitalization, number usage, and vocabulary development.  
**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

---

BSAD B88 Office Procedures  
3 units  
**Description:** A finishing course for students completing their training in office assisting. Course focuses on the techniques currently taking place in the office environment and is designed to develop knowledge and skills necessary for success in the workplace. Topics such as job attitudes, communications, human relations, and time and stress management are featured. Also included are telephone techniques, processing mail, travel arrangements, appointment scheduling, arranging meetings, the job application process, and interviewing techniques.  
**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

---

BSAD B90 Fundamentals of Retailing  
3 units  
**Description:** Principles and practices used in management of retail businesses. Includes site selection, layout, organization, staffing, positioning, customer service, promotional techniques, and all aspects of the critical buying function.  
**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

---

BSAD B91 E-Commerce  
1 unit  
**Description:** Introduces students to E-Commerce basics. Emphasis is placed on exploring marketing issues, payment processing, collections, security, and customer service.  
**Hours:** 18 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

---

BSAD B252A Computer Keyboarding, Part 1  
1 unit  
**Description:** Students learn the basic techniques of the touch system in the mastery of the alpha/numeric keyboard and develop speed and accuracy in keying data. This is a basic course in the Office Technology curriculum and is a life-long learning skill.  
**Hours:** 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

---

BSAD B252B Computer Keyboarding, Part 2  
1 unit  
**Prerequisites:** BSAD B252a with a grade of 'C' or better.  
**Description:** A continuation course where students learn the basic techniques of the touch system in the mastery of the alpha/numeric keyboard and develop speed and accuracy in keying data. They also develop the basic formatting skills necessary to produce letters, memorandums, reports, and tables. This is a basic course in the Office Technology curriculum and is a life-long skill. Open entry/open exit course with individualized instruction in a supervised laboratory.  
**Hours:** 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

---

BSAD B252C Computer Keyboarding, Part 3  
1 unit  
**Prerequisites:** BSAD B252b with a grade of 'C' or better.  
**Description:** The third part in a series where students learn the basic techniques of the touch system in the mastery of the alpha/numeric keyboard and develop speed and accuracy in keying data. They also develop the basic formatting skills necessary to produce letters, memorandums, reports, and tables. This is a basic course in the Office Technology curriculum and is a life-long skill. Open entry/
open exit course with individualized instruction in a supervised laboratory.

**BSAD B253A Document Processing, Part 1**

1 unit

**Prerequisites:** BSAD B252c with a grade of ‘C’ or better.

**Description:** Further develops keyboarding speed, accuracy, and production rates on letters, reports, tables, forms, rough drafts, newsletters, and other documents using Microsoft Word applications. Emphasis is on producing usable copy for employment purposes and increasing keying skill levels. Open entry/open exit course with individualized instruction in a supervised laboratory.

**Hours:** 54 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**BSAD B253B Document Processing, Part 2**

1 unit

**Prerequisites:** BSAD B253a with a grade of ‘C’ or better.

**Description:** The second part in the series where student further develops keyboarding speed, accuracy, and production rates on letters, reports, tables, forms, rough drafts, newsletters, and other documents using Microsoft Word applications. Emphasis is on producing usable copy for employment purposes and increasing keying skill levels. Open entry/open exit course with individualized instruction in a supervised laboratory.

**Hours:** 54 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**BSAD B253C Document Processing, Part 3**

1 unit

**Prerequisites:** BSAD B253b with a grade of ‘C’ or better.

**Description:** The third in the series where student further develops keyboarding speed, accuracy, and production rates on letters, reports, tables, forms, rough drafts, newsletters and other documents using Microsoft Word applications. Emphasis is on producing usable copy for employment purposes and increasing keying skill levels. Open entry/open exit course with individualized instruction in a supervised laboratory.

**Hours:** 54 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**BSAD B264 Ten-Key Proficiency**

0.5 unit

**Description:** Skill and proficiency in the use of the ten-key calculator by touch and the application of such skill and proficiency in the solution of the more frequently encountered business problems. Open entry/open exit course with individualized instruction in a supervised laboratory.

**Hours:** 27 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**BSAD B280 Machine Transcription**

1.5 units

**Prerequisites:** BSAD B252c and BSAD B85 or BSAD B285 with a grade of ‘C’ or better.

**Description:** Students learn the skill of operating transcribing machines and develop skill in keying documents while listening to dictated material. Practice in transcribing letters, memoranda, and other business correspondence is stressed. Course emphasizes English usage, punctuation, spelling/word usage, and proper document formatting when transcribing data. Open entry/open exit course with individualized instruction in a supervised laboratory.

**Hours:** 54 lecture, 108 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**BSAD B285 Business English**

3 units

**Description:** Basic English grammar course focusing on nouns, pronouns, verbs, adjectives, adverbs, conjunctions, and prepositions. Also includes standard punctuation, capitalization, number usage, and vocabulary development.

**Transferable:** Associate Degree only. Not transferable.

**BSAD B287 Filing**

1.5 units

**Description:** Training in principles of filing and records management according to the Association of Records Managers and Administrators (ARMA). Study and practice in filing by alphabetic, numeric, geographic, and subject methods. Open entry/open exit course with individualized instruction in a supervised laboratory.

**Transferable:** Associate Degree only. Not transferable.

**Chemistry Courses**

**CHEM B1A General Chemistry I**

5 units

**Prerequisites:** Mathematics - one level prior to transfer. CHEM B2A with a grade of ‘C’ or better or high school chemistry. Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Basic principles of chemistry, including atomic structures, stoichiometry, reaction energy, chemical bonding, periodic relationships of the elements, states and properties of matter, solutions, introduction to acids and bases, a brief introduction to descriptive chemistry of the elements, and other topics as appropriate. The laboratory emphasizes quantitative methods.

**Transferable:** UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; BC GE B.1

**CHEM B1B General Chemistry and Chemical Analysis**

5 units

**Prerequisites:** CHEM B1a with a grade of ‘C’ or better.

**Recommended:** Chemistry prerequisite accomplished within two years prior to taking this class.

**Description:** Continuation of CHEM B1a. Includes kinetics; equilibrium; thermodynamics; equilibrium as it applies to acid-base, solubility, and electrochemistry; nuclear chemistry; coordination chemistry; the descriptive chemistry of selected elements; and an introduction to organic chemistry. The laboratory includes qualitative analysis, quantitative techniques, and descriptive experiments.

**Transferable:** UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; BC GE B.1
CHEM B2A Introductory General Chemistry
4 units
Prerequisites: Reading - one level prior to transfer. Mathematics - two levels prior to transfer. Writing - one level prior to transfer.
Description: Course covers the principles and applications of general college chemistry. It is designed for liberal arts, physical education and some baccalaureate nursing majors. Recommended also for students who need additional background for the more intensive course, CHEM B1a.
Note: Not open to students with credit in CHEM B1A.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

CHEM B11 Introduction to General, Organic, and Biochemistry
5 units
Prerequisites: Mathematics - two levels prior to transfer. Reading - one level prior to transfer.
Description: An introduction to general, organic, and biochemistry using a qualitative and quantitative approach. Topics include physical principles of chemistry; inorganic compounds and reactions; a survey of organic chemistry-classification, compounds, reactions, nomenclature; biochemistry-classification, composition, reactions in living organisms.
Hours: 54 lecture, 108 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; BC GE B.1

CHEM B18 Elementary Organic Chemistry
5 units
Prerequisites: CHEM B1A with a grade of ‘C’ or better, or CHEM B2A with a grade of ‘B’ or better, or instructor approval.
Description: Introduction to and study of the chemistry of organic compounds: the functional groups, representative types of, theory behind, organic reactions, and the biological classes of proteins, fats, carbohydrates, and nucleic acids. Will prepare students well for further study in organic chemistry, and serve those interested in the sciences and related fields, including ones requiring a semester of organic chemistry for transfer/entrance. The laboratory covers fundamental techniques including separations, synthesis, identification, and instrumental analysis.
Hours: 54 lecture, 108 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; CSU GE B.3; BC GE B.1

CHEM B30A Organic Chemistry for Science Majors I
5 units
Prerequisites: CHEM B1B with a grade of ‘C’ or better.
Description: This is the first semester of a one-year course in organic chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine, and related areas). Taken as a sequence, the course covers fundamental principles and concepts of organic chemistry including (but not limited to) bonding, molecular structure, the standard functional groups, nomenclature, stereochemistry, reactions, and mechanisms. Strong emphasis is placed on reaction mechanisms, stereochemistry, multi-step syntheses, and structure elucidation using hands-on modern instrumental methods (multinuclear NMR, FT-IR, GC, etc.). In addition, various modern computational techniques and an introduction to bio-molecules are presented. The laboratory covers preparative and modern analytical techniques and instrumentation, exposure to a variety of reactions and procedures, performing multistep syntheses, and safety and ecologically friendly protocols.
Hours: 54 lecture, 108 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE B.1

CHEM B30B Organic Chemistry for Science Majors II
5 units
Prerequisites: CHEM B30A with a grade of ‘C’ or better.
Description: This is the second semester of a one-year course in organic chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine, and related areas). Taken as a sequence, the course covers fundamental principles and concepts of organic chemistry including, but not limited to structure, bonding, nomenclature, stereochemistry, the standard functional groups, reactions, and mechanisms. Special emphasis is placed on reaction mechanisms, stereochemistry of reactions, multi-step syntheses, and structure elucidation using modern instrumental methods (multinuclear NMR, FT-IR, GC, etc.). In addition, various modern computational techniques and an introduction to bio-molecules are presented.
Hours: 54 lecture, 108 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE B.1

Child Development Courses

CHDV B13C Child Growth and Development: The Infant Toddler Years
3 units
Recommended: Reading - one level prior to transfer
Description: Study of theory, research, cognitive and sensory development of the Infant Toddler Years. Class will look at mother-child interactions as well as role of caregivers along with age appropriate curriculum and infant programs.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

CHDV B20 Principles and Practices
3 units
Recommended: Reading - one level prior to transfer
Description: An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs and environments. Emphasis is on the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and development for all children. Course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. Formerly CHDV B20, Introduction to Child Growth and Development.
Hours: 54 lecture
CCS: Occupational Education
C-ID: ECE 120
Transferable: CSU and private colleges
CHDV B21 Child Growth and Development: Birth through Adolescence
3 units
Recommended: CHDV B20 with a grade of 'C' or better. Reading - one level prior to transfer.
Description: Interdisciplinary study of physical, social, emotional, and cognitive and language development from conception through adolescence for both typical and atypical children. The family and broader cultural environments provide the context for the study. Topics include historical views of children, developmental theories, research methodology, and patterns of growth.
Hours: 54 lecture
CCS: Occupational Education
C-ID: CDEV 100
Transferable: UC, CSU and private colleges; IGETC 4.G; CSU GE D.7; CSU GE E; BC GE D.1

CHDV B22 Observation and Assessment: Birth through Adolescence
3 units
Prerequisites: CHDV B21 with a grade of C or better and Reading - one level prior to transfer.
Description: Course includes acquisition and application of basic observation skills regarding children's physical, cognitive, language, social and emotional development from birth to adolescence.
Hours: 54 lecture
CCS: Credit Course
C-ID: ECE 200
Transferable: CSU and private colleges

CHDV B32 Teaching in a Diverse Society
3 units
Description: The relationship between critical aspects of culture and the social-emotional development of children, adolescents and adults is analyzed from an anti-bias, multi-cultural perspective. Diversity is examined through the different values, beliefs, modes of communicating, behaving and perceiving the world.
Hours: 54 lecture
CCS: Occupational Education
C-ID: ECE 230
Transferable: CSU and private colleges

CHDV B33 Survey of Special Education
3 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to special education in the public schools. Emphasizes legal aspects, assessment and placement. Includes examination of all disabilities served in the public schools and day care settings and the role of the child care professionals and paraprofessionals in the field of special education.
Hours: 54 lecture
CCS: Occupational Education
C-ID: ECE 130
Transferable: CSU and private colleges

CHDV B36 Developmentally Appropriate Curriculum
3 units
Description: Planning for and implementation of developmentally appropriate curriculum for children ages birth - 8 years. Includes major concepts and theories of child growth and development for children in infant/toddler, preschool, kindergarten and early primary grades. Students will be expected to observe and assess classroom environments and provide an appropriate environment.
Hours: 54 lecture

CHDV B40 Creative Art, Movement, and Music Activities for Young Children
3 units
Recommended: Reading - one level prior to transfer.
Description: Materials, methods, and objectives in teaching art, movement, and music activities for children birth to six years old. The growth of creativity through developmentally appropriate activities, and communicating to parents the value of play will be emphasized. Meets Child Development Associated Options, Competencies #4-7.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

CHDV B41 Supervised Field Experience in Early Childhood Education
3 units
Recommended: Reading - one level prior to transfer.
Prerequisites: CHDV B20, CHDV B21, CHDV B42, and CHDV B36 with grades of 'C' or better.
Description: Basic techniques of working with children including promoting self-esteem; creativity; self-discipline; development of physical and cognitive skills; and planning appropriate curriculum, connections between theory and practice, development of professional behaviors, child centered approaches to teaching, learning, and assessment, implementing and evaluating experiences that promote positive development and learning. The lab portion of this course includes supervised field experience working with children two to five years in age in a Child Development Center applying knowledge gained in lecture. Field trips may be required.
Note: Not open to students who have successfully completed CHDV B41A or CHDV B41B.
Hours: 18 lecture, 108 laboratory
CCS: Credit Course
C-ID: ECE 210
Transferable: CSU and private colleges

CHDV B42 Child, Family, and Community
3 units
Description: Course includes the study of the socializing of children in developmental, family, and community contexts, with an emphasis on historical and socio-cultural factors. In addition, identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. Field trips may be required.
Hours: 54 lecture
CCS: Occupational Education
C-ID: CDEV 110
Transferable: UC, CSU and private colleges; CSU GE D.7; CSU GE E

CHDV B45A Administration of Programs for Young Children: Business Procedures
3 units
Recommended: Reading - one level prior to transfer.
Description: Administration of programs for young children including private and publicly-funded child care centers and preschool programs. Emphasizes business procedures and public policy. Field trips required.
Hours: 54 lecture
CHDV B45B Administration of Programs for Young Children: Personnel Management Procedures
3 units
Description: Administration of programs for young children including private and publicly-funded child care centers and preschool programs. Emphasizes personnel management and public policy.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges, elective credit only

CHDV B49 Child Health, Safety, and Nutrition
3 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children. Pediatric CPR and First Aid certification are completed (books and certification costs are at the student’s expense) Totally fulfills California licensing mandate of 15 hours of training in preventative health practices.
Hours: 54 lecture
CCS: Occupational Education
C-ID: ECE 220
Transferable: CSU and private colleges.

CHDV B52 Care of Infants and Toddlers with Disabilities
3 units
Description: Interdisciplinary course designed to prepare child care workers and education aides to care for disabled and chronically ill infants and toddlers.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

CHDV B53A Early Childhood Education: Adult Supervision
2 units
Recommended: Reading - one level prior to transfer.
Description: A study of the methods and principles of supervising and teaching adults in early childhood classrooms. Emphasis is on the role of experienced classroom teachers who function as a supervisor and/or mentor for staff or new teachers in a child care environment while simultaneously addressing the needs of the children and parents.
Hours: 36 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

CHDV B67 The School Age Child
3 units
Recommended: Reading - one level prior to transfer.
Description: Social, emotional, physical, and cognitive development of the child through the preadolescent years, including planning curriculum and structuring the environment and classroom activities for each stage.
Hours: 54 lecture

CHDV B69 Child Health, Safety, and Nutrition
3 units
Recommended: Reading - one level prior to transfer.
Description: Administration of programs for young children including private and publicly-funded child care centers and preschool programs. Emphasizes personnel management and public policy.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges, elective credit only

COMM B1 Public Speaking
3 units
Recommended: Writing - one level prior to transfer. Reading - one level prior to transfer.
Description: An introduction to public speaking as it pertains to romantic, friendship, family, and professional relationships. Emphasis will be put on social and cultural influences that shape personal identity and interpersonal relationships, ethical communication founded on communication theory and research, and effective conflict resolution methods. Focus will also include participation in experiences designed to enhance competence and develop skills in interpersonal communication.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: COMM 110
Transferable: UC, CSU and private colleges; IGETC 1.C; CSU GE A.1; BC GE A.1

COMM B2 Interpersonal Communication
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Principles and practices of persuasion in various communication settings. Prepare and deliver persuasive speeches for specific audiences.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: COMM 130
Transferable: UC, CSU and private colleges; IGETC 1.C; CSU GE A.1; BC GE E

COMM B4 Persuasive Communication
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Principles and practices of persuasion in various communication settings. Prepare and deliver persuasive speeches for specific audiences.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: COMM 130
Transferable: UC, CSU and private colleges; IGETC 1.C; CSU GE A.1; BC GE A.1

COMM B5 Rhetoric and Argumentation
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Theoretical and practical aspects of argumentation and public debating to develop students critical thinking abilities. Emphasis is on composition, presentation, and evaluation of speeches in argumentative, debate, and advocacy contexts. Identification of public issues, research and organization of evidence, building sound and effective arguments, and facility with debate formats are the primary learning outcomes of this course. Introduces logical reasoning and builds competence with formal reasoning before applying those to argumentation and debate about public issues.
### COMM B6 Intercultural Communication
3 units
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.
**Description:** Study of basic theory and skills of intercultural communication. Emphasis is given to communicating effectively in diverse social and professional environments. Focus will also be given to the analysis and comparisons of message perception and transmission in interactions between people from different cultures. Practical application of these skills will also be highlighted.
**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**C-ID:** COMM 120
**Transferable:** UC, CSU and private colleges; CSU GE A.3; BC GE B.2

### COMM B7 Organizational Communication
3 units
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.
**Description:** Course concentrates on a global look at communication in an organizational setting: theory and practice of communication in private and public organizations, interpersonal and group communication patterns within organizations, systems of ethical internal and external communication, leadership in the organization, organizational cultures impact on communication, and the role of communication in achieving organizational goals. Course includes team projects that will require work outside of class and visits to a community location of your teams choosing.
**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**C-ID:** COMM 150
**Transferable:** UC, CSU and private colleges; IGETC 4.C; IGETC 4.G; CSU GE D.3; CSU GE D.7; BC GE D.1

### COMM B8 Small Group Communication
3 units
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.
**Description:** This oral communication class examines small group processes such as group formation and development, conflict, problem solving, and group climate. Covers an understanding of diversity, leadership roles, and theory. Students participate in class groups where experiential learning and presentations are part of the class experience. Small group meetings outside of class time are required. Field trips may be required.
**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** COMM 140
**Transferable:** UC, CSU and private colleges; IGETC 1.C; CSU GE A.1; BC GE A.1

### COMM B9 Health Communication
3 units
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.
**Description:** Course introduces student to the theory and practice of health communication in dyadic, small group, organizational, and mass media contexts. Students examine topics such as provider-client communication, the influence of diversity and culture on health communication, and the role that the mass media plays in disseminating health information. Selected topics and theories of human communication are directly applied to communication situations in health care settings through the use of case studies. Emphasis is on understanding and improving health communication among health professionals, between health professionals and clients, and with the general public.
**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**C-ID:** BUS 140
**Transferable:** UC, CSU and private colleges

### COMM B10 Leadership and Communication
3 units
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.
**Description:** Course presents theories of communication, leadership and followership as they explore the essential role communication plays in leadership at all levels. Course emphasizes the study of communication skills that are central to performing successfully as a leader in a variety of contexts including organizational, familial, team and public settings. Specific attention is given to self-assessment of leadership and communication skills, self-reflection, and creation of a personal leadership communication plan.
**Note:** Not open to students who have successfully completed COMM B49 or COMM B49B.
**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**C-ID:** COMM 170
**Transferable:** CSU and private colleges

### COMM B21 Oral Interpretation
3 units
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.
**Description:** Study of the theoretical and technical aspects involved in the selection, analysis, interpretation and oral performance of various forms of literature, including poetry, prose, and drama (plays, scripts, and screenplays). Includes participation in various types of performance exercises including presentation of prose, poetry, drama and group ensemble.
**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**C-ID:** COMM 170
**Transferable:** CSU and private colleges; BC GE C.2

### Computer Science Courses

#### COMP B2 Introduction to Computer Information Systems
3 units
**Prerequisite:** Reading - one level prior to transfer
**Description:** Introduction to the concepts of computer information systems as problem-solving tools in business, economics, mathematics, and the sciences. Includes the history of computer system components, and sequential and direct-access processing. Database management systems, teleprocessing, and distributed processing are covered. An overview of personal computer applications software (word processing, electronic spreadsheets, and personal database management systems) is also included.
**Note:** Not open to students who have successfully completed COMS B2, COMS B3, COMP B3.
**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** BUS 140
**Transferable:** UC, CSU and private colleges
COMP B3 Computer Concepts & Survival Skills
3 units
Recommended: Reading - one level prior to transfer.
Description: An introduction to computers and computer information systems as problem-solving and personal productivity tools. The focus of the course is to provide the practical computer skills and computer literacy that most computer users need to succeed in school, business and other endeavors. Topics include: networking and the Internet, e-commerce, ethical and societal implications of computer use, security, computer hardware and software. Emphasis is placed on hands-on projects that enhance productivity. Examples of these include: word processing, spreadsheets, backup, anti-malware, communications, multimedia and presentation, Email, web-based research, and operating systems.
Note: Not open to students who have successfully completed COMP B2, COMS B3, COMP B2.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges

COMP B5 Introduction to Microsoft Office
3 units
Recommended: Reading - one level prior to transfer.
Description: Intended for home users and business people who desire a working knowledge of personal computer hardware and software. Special emphasis on software that is most widely used in Kern County as well as the nation. Mainly focuses on business and home applications of personal computers. Hands-on training with word processing, spreadsheets, database management systems, electronic presentations, and the necessary operating system fundamentals to the listed application software.
Note: Not open to students who have successfully completed COMS B5.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges

COMP B10 Introduction to Programming Methodologies using Python
3 units
Recommended: Reading - one level prior to transfer.
Description: This course is designed as a first course in software engineering for mixed-majors, with an emphasis on the Computer Science major. Students will use the object-oriented programming language Python to learn the fundamentals of programming. Topics include: variables, sequence, selection, iteration, the software life-cycle, as well as common programming algorithms such as sorting and searching.
Note: Not open to students who have successfully completed COMS B10.
Hours: 54 lecture
CCS: Credit Course
C-ID: COMP 112
Transferable: UC, CSU and private colleges

COMP B11 Programming Concepts and Methodology I
3 units
Prerequisites: Reading - one level prior to transfer and Mathematics - one level prior to transfer.
Recommended: COMP B10 with a grade of ‘C’ or better or instructor approval.
Description: This course is an introduction to the discipline of computer science, with a focus on the design and implementation of algorithms to solve simple problems using a high-level programming language. Topics include fundamental programming constructs, problem-solving strategies, debugging techniques, declaration models, and an overview of procedural and object-oriented programming languages. Students will learn to design, implement, test, and debug algorithms using pseudocode and a high-level programming language.
Note: Not open to students who have successfully completed COMS B14.
Hours: 54 lecture
CCS: Credit Course
C-ID: COMP 122
Transferable: UC, CSU and private colleges

COMP B12 Programming Concepts and Methodology II
3 units
Prerequisite: COMP B11 with a grade of ‘C’ or better
Description: This is a software engineering course focused on the application of software engineering techniques for the design and development of large programs. Topics include object oriented programming, data abstraction, data structures and their associated algorithms, and recursion. Students will learn to design, implement, test, and debug programs using an object-oriented language.
Note: Not open to students who have successfully completed COMS B35.
Hours: 54 lecture
CCS: Credit Course
C-ID: COMP 132
Transferable: UC, CSU and private colleges

COMP B13 Computer Architecture and Organization
3 units
Recommended: COMP B11 with a grade of ‘C’ or better
Description: This course is an introduction to the organization and behavior of computer systems at the assembly language level. Topics include numerical computation, the internal representation of simple data types and structures, data representation errors, and procedural errors. Students will learn how to map statements and constructs of high-level languages onto sequences of machine instructions.
Hours: 54 lecture
CCS: Credit Course
C-ID: COMP 142
Transferable: UC, CSU and private colleges

COMP B14 Discrete Structures
3 units
Prerequisite: COMP B11 with a grade of ‘C’ or better
Description: This course is an introduction to the discrete structures used in Computer Science with an emphasis on their applications. Topics covered include functions, relations and sets, basic logic, proof techniques, basics of counting, graphs and trees, and discrete probability.
Hours: 54 lecture
CCS: Credit Course
C-ID: COMP 152
Transferable: UC, CSU and private colleges

COMP B21 Database Systems - Design & Structured Query Language (SQL)
3 units
Recommended: Reading - one level prior to transfer.
Description: Course emphasizes “best practices” for relational database design (modeling) and the use of Structured Query...
Language (SQL) for database manipulation. Normalization, data diagramming, concurrency and other key database concepts will be discussed. Microsoft Access, MySQL, Microsoft SQL Server, and other database management systems will be used to demonstrate concepts. Upon successful completion of this course, students will be able to design real world databases and manipulate them using SQL.

**Note:** Not open to students who have successfully completed COMS B34.

**Hours:** 54 lecture

**CSS:** Credit Course

**Transferable:** CSU and private colleges

**COMP B31 CompTIA Network Security - Security+**

3 units

**Recommended:** Reading - one level prior to transfer.

**Description:** Course is designed for individuals interested in a career in computer network security. Course prepares students for the vendor-neutral CompTIA Security+ certification exam. Topics covered are: network security, types of security threats, security vulnerability assessment, access control fundamentals, authentication, cryptography, and risk mitigation.

**Hours:** 54 lecture

**CSS:** Credit Course

**Transferable:** CSU and private colleges

**COMP B32 CompTIA Linux+**

3 units

**Recommended:** Reading - one level prior to transfer.

**Description:** A general introduction to Linux installation and Administration. Covers the essentials of installing, configuring, maintaining, administering and troubleshooting the Linux Operating System.

**Note:** Not open to students who have successfully completed COMS B41.

**Hours:** 54 lecture

**CSS:** Credit Course

**Transferable:** CSU and private colleges

**COMP B33 CompTIA Networking Technologies - Network+**

3 units

**Recommended:** Reading - one level prior to transfer.

**Description:** Designed for individuals interested in a career in computer networking, Course prepares students for the vendor-neutral CompTIA Network+ certification exam. Topics covered are: networking fundamentals, the OSI model, network protocols, logical and physical architectures in both local and wide area networks, the physical parts of a network (wiring, NICs, hubs, routers, bridges and switches), popular network operating systems, network troubleshooting and security.

**Note:** Not open to students who have successfully completed COMS B82.

**Hours:** 54 lecture

**CSS:** Credit Course

**Transferable:** CSU and private colleges

**COMP B41 Web Design: Design Tools**

3 units

**Recommended:** Reading - one level prior to transfer.

**Description:** This course is an introductory web design course, focusing on the use of web design tools such as Adobe Dreamweaver and other similar WYSIWYG (What you see is what you get) tools to create web pages from a design perspective.

**Note:** Not open to students who have successfully completed COMS B74a.

**Hours:** 54 lecture

**CSS:** Credit Course

**Transferable:** CSU and private colleges

**COMP B42 Web Design: HTML & CSS**

3 units

**Recommended:** Reading - one level prior to transfer.

**Description:** This course is an introductory course in designing web pages using HTML and CSS coding. Rather than using a program to write the code, students will learn how to create basic web pages and sites from the ground up using standards-compliant coding techniques.

**Note:** Not open to students who have successfully completed COMS B74b.

**Hours:** 54 lecture

**CSS:** Credit Course

**Transferable:** CSU and private colleges

**COMP B43 Web Design: JavaScript**

3 units

**Prerequisite:** COMP B42 with a grade of ‘C’ or better or instructor assessment of student’s knowledge / experience with HTML and CSS.

**Description:** This is an advanced level course in the web design area. Students will build upon previous knowledge of HTML and CSS to create dynamic and interactive web pages using JavaScript.

**Note:** Not open to students who have successfully completed COMS B74c.

**Hours:** 54 lecture

**CSS:** Credit Course

**Transferable:** CSU and private colleges

**COMP B72 Applied Software Design**

3 units

**Prerequisite:** COMP B10, COMP B11 and COMP B21 with grades of ‘C’ or better, or approval of instructor

**Description:** The course integrates many aspects of modern end-user computer application design. This includes the SDLC needs assessment, database modeling, SQL, user interface design and the programming that ties these components together. Internal and end-user documentation will also be covered. This course should be taken as the final course for those pursuing the Software Development Certificate of Achievement.

**Hours:** 54 lecture

**CSS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.

**COMP B84 CompTIA A+**

4 units

**Recommended:** Reading - one levels prior to transfer.

**Description:** Designed to cover the information and materials needed to enable students to successfully pass the CompTIA A+ examination. Covers the fundamentals of computer technology, installation and configuration of PCs, laptops and related hardware, and basic networking. Includes hardware and software troubleshooting using various diagnostic tools and methods employed in industry.

**Note:** Not open to students who have successfully completed COMS B100.

**Hours:** 54 lecture, 54 laboratory

**CSS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.
COMP B94 Web Design: PHP & MySQL
3 units
Prerequisite: COMP B42 with a grade of ‘C’ or better, or assessment of student’s HTML and CSS skills and knowledge by the instructor.
Description: This is an advanced web design course. Building on a foundation of the HTML coding principles and practice, students in this class will learn to develop server-side solutions using PHP and MySQL as a platform.
Note: Not open to students who have successfully completed COMS B75c.
Hours: 54 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

Correctional Administration Courses
CADM B54 Corrections Officer Core Course
7 units
Description: This course is designed to meet the Corrections Standards Authority requirements for entry-level Corrections Officers in Adult Detention Facilities. This course covers various legal issues in dealing with incarcerated offenders as well as supervision of inmates. Transportation, report writing, blood borne pathogens, CPR, First Aid, receiving and releasing of inmates, weaponless defense, Fire and Life Safety.
Hours: 90 lecture, 110 laboratory
CCS: Credit Course
Transferable: Not transferable.

CADM B55 Deputy Probation Officer Core Course
3.5 units
Description: Introductory probation officer training providing the necessary knowledge and skills required for entry level deputy probation officers. Designed to comply with the State of California, Board of Corrections, Standards and Training for Corrections (STC). Covers professionalism, ethics, introduction to the criminal justice system, laws, confidentially, juvenile detention, case information and problem identification, interviewing, restitution, report writing, casework, counseling, monitoring and supervising offenders, officer safety and defensive tactics, physical skills, responding to probationer performance, CPR.
Hours: 140 lecture, 36 laboratory
Repeat: 2
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B56 Special Topics
0.2-3 units
Description: Various mandated training topics required by Standards and Training in Corrections (STC) from the California Board of Corrections. Designed to meet the requirements for entry-level staff for employment in a juvenile correctional institute. Written to comply with the State of California, Board of Corrections, Standards and Training for Corrections (STC).
Hours: 8 lecture hours for each .2 unit (8-120)
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B57 Juvenile Institutions Officer Core Course
6 units
Description: Designed to meet the requirements for entry-level staff for employment in a juvenile correctional institute. Written to comply with the State of California, Board of Corrections, Standards and Training for Corrections (STC).
Hours: 116.5 lecture, 51.5 laboratory
Repeat: 2
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B58 Supervisor Core Course
3 units
Description: Provides the STC training curriculum for newly promoted corrections supervisors. Includes supervisory role identification, leadership style, values, ethics, principles, assertive
leadership, employee performance appraisals, liability issues and legal updates, discipline, employee counseling, investigations, report review, and team building. Meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Hours**: 56 lecture, 24 laboratory
**Repeat**: Unlimited
**CCS**: Occupational Education
**Transferable**: Not degree applicable. Not transferable.

**CADM B70A Prisoner Transportation**

**0.2 unit**

**Description**: Intended for peace officers, correctional officers, juvenile institutions staff and probation officers. Covers various modes of prisoner transportation, the risks involved, and how to achieve a secure transportation, including the application and use of mechanical restraints. This course meets the training requirements as set forth by the Corrections Standards and Training for Corrections Program.

**Hours**: 7 lecture, 1 laboratory
**Repeat**: unlimited
**CCS**: Occupational Education
**Transferable**: Not degree applicable. Not transferable.

**CADM B70B Prison Gangs**

**0.2 unit**

**Description**: Intended for people working in law enforcement and corrections. Topics include identifying known prison gangs, gang member identification/activities, policies on gang validation, gang recruitment measures, interviewing techniques and protective custody measures for gang dropouts. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Note**: Registration will be held during the first hour of the first class meeting.

**Hours**: 4 lecture, 4 laboratory
**Repeat**: unlimited
**CCS**: Credit Course
**Transferable**: Not degree applicable. Not transferable.

**CADM B70C Escape Prevention**

**0.2 unit**

**Description**: Intended for people working in corrections. Teaches escape prevention procedures that deal primarily with basic institutional security principles, accountability of inmates, human error, and techniques used for escape prevention. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Programs.

**Hours**: 4 lecture, 4 laboratory
**Repeat**: unlimited
**CCS**: Credit Course
**Transferable**: Not degree applicable. Not transferable.

**CADM B70D Suicide Prevention**

**0.2 unit**

**Description**: Designed for students who work in corrections. Covers identifying the potential for suicide, prevention techniques, intervention and responses including proper communication techniques during a crisis. Meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Hours**: 8 lecture
**Repeat**: unlimited

**CCS**: Occupational Education
**Transferable**: Not degree applicable. Not transferable.
CADM B70I Anger Management 0.2 unit
Description: Intended for people working in law enforcement and corrections. Designed to provide students with tools to control their own anger as well as provide a process to deal with angry people. Meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B70J Informant Development and Management 0.2 unit
Description: Designed for students who work in corrections. Provides the communication tools and legal framework necessary for successful implementation, use and protection of informants in a correctional institution. This course meets the requirements as set forth by the Corrections Standards authority for counties participating in the Standards and Training for Corrections Program.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B70K Anatomy of a Set-Up: Games Inmates Play 0.2 unit
Description: Students will develop a greater understanding of criminal thinking & behavior. This course will provide the student with the knowledge and communication skills to prevent or stop a set-up. Students will be able to identify and recite the signs and behaviors that contribute to and make employees receptive to a set-up and to attempts at “game playing” by inmates.
Hours: 8 lecture
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B70L Use of Force and Civil Liabilities 0.2 unit
Description: Designed for students who work in corrections. Students will identify and discuss specific trends in civil liabilities in the field of corrections with a focus on use of force. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B70M Drug Recognition and Under Influence 0.2 unit
Description: Provides training to law enforcement, corrections and security officers (also recommended for educators). Prepares students to identify specific illicit drugs and the signs and symptoms of drug use and influence. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 7 lecture, 1 laboratory
Repeat: unlimited

CADM B70N Fire and Life Safety 0.2 unit
Description: Hands-on training for corrections institution staff in fire prevention and suppression. Provides the knowledge and skills necessary for fire and emergency responses. Topics include evacuation management, tactical control measures, use of fire suppression equipment, use of the SCBA, search and rescue techniques. Meets the certification requirements for Standards and Training in Corrections (STC) from the California Board of Corrections.
Note: Registration will be held during the first hour of the first class meeting.
Hours: 5 lecture, 3 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B70O Positive Inmate Staff Relations through Communication and Ethics 0.2 unit
Description: Provides training to corrections staff. Develops practical communication and ethical skills toward a positive inmate/staff working relationship in a jail/institutional environment. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 8 lecture
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B70P Emergency Procedures 0.2 unit
Description: Designed for corrections staff. Provides an overview of various emergencies arising within a correctional facility, including natural disasters, riots, work strikes, escapes. Policy, planning and response are discussed. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B70Q Inmate Work Incentive Program 0.2 unit
Description: State law mandates that every inmate shall have a reasonable opportunity to participate in a full-time credit qualifying assignment, consistent with institutional security and available resources. Designed for the correctional officer who supervises such inmates. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.
CADM B70S Women in Corrections
0.2 unit
Description: Designed for students who work in corrections. Explores the history of women in corrections and the career developments for women that have evolved in the field of corrections. Other topics include: special training needs, problems and restrictions placed on women, developing a mentoring program for female correctional staff. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 6 lecture, 1 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B70T Blood Borne Pathogens, T.B. Awareness, Psychotic Inmates
0.2 unit
Description: Primarily designed for students who work in corrections. Learn how to prevent the transmission of blood borne pathogens; identify Tuberculosis awareness factors; recognize and deal with psychotic inmates. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B70U Conflict Resolution and Hostage Survival
0.2 unit
Description: Designed for students who work in corrections. Covers Conflict Resolution: develop skills to defuse and deescalate confrontational situations. Teaches: tactics and techniques to avoid being taken hostage, and what to do if you are taken hostage in a correctional setting. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B70V Facility and Inmate Searches
0.2 unit
Description: Provides training for corrections staff. Develops and enhances the knowledge and skills of searching both inmates and facilities. Covers searching techniques, clothed and unclad body searches, and the current trends of introduction of contraband into a facility. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 6 lecture, 2 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B70W Restraint Gear Application
0.2 unit
Description: Provides explanation and hands-on practice for the proper application and use of restraint gear. Explains how some gear can be slipped, picked, shimmed or broken. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 7 lecture, 1 laboratory
Repeat: unlimited

CADM B70X Cell Extraction
0.2 unit
Description: Designed for correctional staff. Provides knowledge and skills to perform calculated and emergency cell extractions in a safe manner. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 6 lecture, 2 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B70Z Inmate Classification/Disciplinary Process
0.2 unit
Description: Provides an introduction to the inmate classification process. Describes the basic procedure for assigning an inmate to a particular job based on security level and defines how the disciplinary process is a part of the classification process. Class meets the certification requirements for Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 7 lecture, 1 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B71A Basic Principles of Management
0.4 unit
Description: An introduction to best practices of two-way communication between administration and line staff to ensure good facility management. Students will develop their leadership and communication skills. The art of discipline and grievances will be explored. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 12 lecture, 4 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B71F Drug and Alcohol Awareness for Supervisors
0.2 unit
Description: Provides training to law enforcement, corrections and security supervisors (also recommended for educators). Prepares students to identify and determine whether an employee is under the influence of alcohol or drugs. Other topics include how supervisors can solicit help for employees to overcome substance abuse/addiction. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 7 lecture, 1 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

**CADM B71G Advanced Report Writing**
0.2 unit
Description: This course is designed to provide corrections officer and first-line supervisors with advanced skill in the area of report writing. They will refresh and enhance their skills developed in the basic core course.

Note: Registration will be held during the first hour of the first class meeting.

Hours: 8 lecture
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

**CADM B71H Transportation/Escape Procedures**
0.2 unit
Description: Intended for peace officers, correctional officers, juvenile institutions staff, and probation officers. Introduces students to various modes of transportation of adult and juvenile inmates. Includes proper use of restraints and proper searching techniques. Covers risks and techniques to prevent escapes. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 6.5 lecture, 1.5 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

**CADM B71I Violence in the Workplace**
0.2 unit
Description: A discussion of fatal and nonfatal violence in the workplace to determine the focus needed for prevention. Emphasis made on changes to help minimize or remove the risk of workplace violence. Meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

**CADM B71K Rights of Prisoners**
0.2 unit
Description: An introduction and discussion of the rights and privileges that inmates have while they are incarcerated. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

**CADM B71L Progressive Discipline**
0.2 unit
Description: Intended for people working in corrections. Teaches method of Progressive Discipline utilized in a correctional setting to ensure uniform consistency, avoid confusion, follow due process requirements, and create a positive behavior change among inmates. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 6 lecture, 2 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

**CADM B71M Stress in the Corrections Environment**
0.2 unit
Description: Intended for people working in corrections. Course will identify and discuss what stress is, how it affects both the physical and mental health of individuals. Topics include identifying symptoms of stress, recognizable physical and psychological reactions to stress, and stress reducers/relaxation techniques. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 4 lecture, 4 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

**CADM B71N Positive Thinking in Corrections**
0.2 unit
Description: Trains Correctional Officers to present themselves as confident, effective communicators and therefore enjoy better inmate control and institutional effectiveness. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 4 lecture, 4 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

**CADM B71Q Liability Issues and Courtroom Demeanor**
0.2 unit
Description: Intended for people working in corrections. Course introduces basic assessment tools, methods of coping, as well as tools and skills to facilitate post traumatic recovery. Course meets the Standards and Training for Corrections Program.

Hours: 6 lecture, 2 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

**CADM B71P Employee Post Trauma**
0.2 unit
Description: Intended for people working in corrections. Course covers basic assessment tools, methods of coping, as well as tools and skills to facilitate post traumatic recovery. Course meets the Standards and Training for Corrections Program.

Hours: 6 lecture, 2 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.
in a court of law. Other topics include: identification of adverse employees, insufficient training, and negligent supervision among others. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program. Hours: 8 lecture Repeat: unlimited CCS: Occupational Education Transferable: Not degree applicable. Not transferable.

**CADM B71R Prison Rape Elimination Act (PREA)**

0.2 unit

Description: Provides the skills necessary to investigate complaints, threats, or signs of sexual assault/rape against inmates. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 4 lecture, 4 laboratory Repeat: unlimited CCS: Credit Course Transferable: Not degree applicable. Not transferable.

**CADM B72 Chemical Agents**

0.2 unit

Description: Intended for peace officers, correctional officers, juvenile institutions staff and probation officers. Provides the required competencies and certification for the use of chemical agent sprays. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 6 lecture, 2 laboratory Repeat: unlimited CCS: Credit Course Transferable: Not degree applicable. Not transferable.

**CADM B73 Basic Baton Course**

0.2 unit

Description: Provides students with the practical, safe, legal and technical aspects of the use of the police baton. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program. Note: Registration will be held during the first hour of the first class meeting.

Hours: 2 lecture, 6 laboratory Repeat: unlimited CCS: Credit Course Transferable: Not degree applicable. Not transferable.

**CADM B74 Weaponless Defense and Control Tactics**

0.2 unit

Description: Provides training to law enforcement, corrections and security officers to perform their daily tasks with less danger to themselves and to increase their ability to control suspects and prisoners in a humane and lawful manner. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program. Note: Registration will be held during the first hour of the first class meeting.

Hours: 2 lecture, 6 laboratory Repeat: unlimited CCS: Credit Course Transferable: Not degree applicable. Not transferable.

**CADM B75 Surviving Edged Weapons**

0.2 unit

Description: Provides training to law enforcement, corrections staff and security officers. Teaches responses to the mounting threat of knife culture offenses. Topics covered include safe positioning, communicating commands to inmates, how to assess an edged weapon assailant, evasive defensive tactics and disarming techniques. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 3 lecture, 5 laboratory Repeat: unlimited CCS: Credit Course Transferable: Not degree applicable. Not transferable.

**CADM B76 Basic Firearms Familiarization**

0.1 unit

Description: Designed to give the first-time shooter hands-on experience as well as knowledge of the operation of a handgun and range safety. Students will engage in the use of firearms, which will include handgun familiarization; safety; care, cleaning and storage; firearms range qualification. SPECIAL NOTE: Per Penal Code section 13511.5 students must obtain written clearance from the California Department of Justice verifying that they are not prohibited from possessing firearms. Note: Registration will be held during the first hour of the first class meeting.

Hours: 1.5 lecture, 2.5 laboratory Repeat: unlimited CCS: Credit Course Transferable: Not degree applicable. Not transferable.

**CADM B77 Intermediate Firearms Course**

0.4 unit

Description: Designed to expand upon the skills and knowledge of firearms familiarity and range safety. Students will engage in the use of firearms, which will include safe handling; care, cleaning and storage; firearms range qualification. SPECIAL NOTE: Per Penal Code section 13511.5, students must obtain written clearance from the California Department of Justice verifying that they are not prohibited from possessing firearms.

Hours: 8 lecture, 8 laboratory Repeat: unlimited CCS: Credit Course Transferable: Not degree applicable. Not transferable.

**CADM B78 Less Lethal/Specialty Impact Weapons**

0.2 unit

Description: Provides training to law enforcement, corrections and security officers in the proper, safe, legal, technical and practical use of less lethal/specialty impact weapons. A demonstration of such weapons and munitions will be conducted. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program. Hours:.2 lecture, 4 lab, 4 supervised tutoring Repeat: unlimited CCS: Occupational Education Transferable: Not degree applicable. Not transferable.

**CADM B79 Emergency Response Team Training**

1.5 units

Description: Provides training for newly appointed officers to a Correctional Emergency Response Team (CERT). Covers the duties
of a CERT team member including transport of high risk inmates, extracting uncooperative prisoners from their cells, searches, high profile security, barricaded persons, mass arrest and responding to hostages situations. Course meets the training requirements as set forth by the Corrections Standards Authority for countries participating in the Standards and Training for Corrections Program.

**Criminology Courses**

**CRIM B1 Introduction to Criminal Justice**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** An overview of the American criminal justice system and its sub-systems; roles and role expectations of criminal justice professionals; theories of crime causation, punishment and rehabilitation; ethics, and multicultural awareness.  
**Hours:** 54 lecture  
**C-ID:** AJ 110/SOCI 160  
**Transferable:** UC, CSU and private colleges; CSU GE D.10; BC GE D.2

**CRIM B2 Criminal Law**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Historical development, philosophy of law and constitutional provisions, definitions, classification of crimes and their application to the criminal justice system, legal research, review of case law, methodology and concepts of law as a social force. Explores crimes against persons, property, and the state as a social, religious, and historical ideology.  
**Hours:** 54 lecture  
**C-ID:** AJ 120  
**Transferable:** UC, CSU and private colleges

**CRIM B3 Introduction to Evidence**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Origin, development, philosophy and constitutional basis of the law of evidence; constitutional and procedural considerations affecting arrest, search and seizure, kinds of degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies reviewed from a conceptual level.  
**Hours:** 54 lecture  
**C-ID:** AJ 124  
**Transferable:** CSU and private colleges

**CRIM B4 Constitutional Criminal Procedure**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Legal processes from pre-arrest, arrest through trial, sentencing and correctional procedures; a review of the history of case and common law; conceptual interpretations of law as reflected in court decisions; a study of case law methodology and case research as the decisions impact upon the procedures of the justice system.  
**Hours:** 54 lecture  
**CS:** Credit Course  
**C-ID:** AJ 122  
**Transferable:** CSU and private colleges

**CRIM B5 Community Relations**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. The evolving nature of multiculturalism; Multicultural populations; Managing/Policing diverse populations in correctional settings. Topics may include the consensus and conflicting values in Cultural, Religion, and Law.  
**Hours:** 54 lecture  
**CS:** Credit Course  
**Transferable:** UC, CSU and private colleges; CSU GE D.10; BC GE D.2

**CRIM B8 Criminal Investigation**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Fundamentals of criminal investigation; investigator skill requirements; modus operandi determination; the collection, identification and preservation of physical evidence; crime scene investigation; interviews and interrogations; sources of information; surveillance; field note-taking and report writing; courtroom preparation; and the investigation of specific crimes.  
**Hours:** 54 lecture  
**CS:** Occupational Education  
**C-ID:** AJ 140  
**Transferable:** CSU and private colleges

**CRIM B9 Juvenile Justice System**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Techniques of handling juvenile offenders and victims; prevention and suppression of delinquency; diagnosis and referral; organization of community resources; juvenile law and juvenile court procedures.  
**Hours:** 54 lecture  
**CS:** Occupational Education  
**C-ID:** AJ 220  
**Transferable:** CSU and private colleges

**CRIM B10 Organized Crime**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Interrelations of organized crime to the community; impact of covert criminal activities upon the social structure; symptoms of organized crime activity, i.e. narcotics and white collar crime; political influences in the legal system; and management of crime control units.  
**Hours:** 54 lecture  
**CS:** Occupational Education  
**Transferable:** CSU and private colleges
CRIM B12 Forensic and Scientific Aspects of Evidence
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: The examination and evaluation of evidence using scientific principles and procedures for use in a legal setting including forensic (autopsy), entomology, anthropology, trace evidence (hair and fiber), fingerprints, serology, ballistics, and DNA. Emphasis on the importance of forensic evidence and science to exonerate the innocent as well as to convict the guilty.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

CRIM B21 Introduction to Correctional Administration
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: A survey of the total 'correctional cycle' and the relationships of its components. Included are: historical, theoretical and philosophical explanations of criminal behavior; statistics and research findings; employment opportunities; employment requirements.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

CRIM B22 Institutional Treatment and Supervision of Offenders
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: A survey of the basic knowledge and skills required of corrections personnel including treatment and supervision of offenders; programs, procedures, legal issues and research in the correctional setting.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

CRIM B23 Fundamentals of Interviewing and Counseling
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: A survey of the basic theories and techniques employed in interviewing and counseling by the correctional worker; traces the development of the meaningful relationship between client and caseworker; explores the various types of counseling employed with a correctional relationship, including group counseling.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

CRIM B24 Probation, Parole, and Community Corrections
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.

CRIM B50 Criminal Justice Report Writing
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Emphasizes the practical aspects of gathering, organizing, and preparing written reports for correctional activities on local, state, and federal levels. Covers techniques of communicating facts, information, and ideas effectively in a simple, clear and logical manner for various types of criminal justice system reports, letters, memos.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

CRIM B55 Special Topics in Criminal Justice
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Contemporary issues and controversies associated with crime and the criminal justice system are among the special topics to be explored.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

CRIM B60 Legal Aspects of Corrections
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: A survey of legal issues in the corrections environment, the civil rights of prisoners and responsibilities and liabilities of corrections officials. The historical framework, concepts and precedents that guide correctional practice.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

Crop Science Courses

CRPS B1 Principles of Crop Production
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Fundamental practices for field, vegetable, tree, and vine crops; basic botany, classification of plants, soils, seeding, fertilizers, irrigation, pest control, and harvest plus specific practices for crops grown in the San Joaquin Valley. Students who have previously successfully completed the course may repeat when needed for State mandated pest control license. Students must obtain a special override from the Office of Admissions and Records in the Administration building.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges; BC GE B.1
CRPS B2 Forage Crops
3 units
Description: Study of important forage crops of California and the nation; species, varieties, adaptations, production methods, feeding qualities, and processing.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

CRPS B3 Integrated Pest Management
3 units
Recommended: Reading - one level prior to transfer; Writing - one level prior to transfer and Mathematics - one level prior to transfer.
Description: Fundamental principles of pest control and management in commercial agriculture. Includes pest identification, pestilence diagnosis, and methods of chemical, physical, and biological control. Students who have previously successfully completed the course may repeat when needed for State mandated pest control license. Students must obtain a special override from the Office of Admissions and Records in the Administration building. Field trips required.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

CRPS B4 Vegetable Production
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Principles and practices of vegetable crop production. Methods used in seeding, propagation and culture of vegetables and the application of the principles underlying vegetable production techniques.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

CRPS B5 Plant Science
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: This course is designed to provide the students witha working knowledge of the fundamental structures and processes of plants. Principles to be applied cover plant structures, physiology, heredity, environmental relationship to growth, adaptation, and management of crops. Techniques of research, exploration of plant growth, and identification of economical crops will be included.
Hours: 36 lecture, 54 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

CRPS B10 Plant Biology
4 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer. Mathematics - two levels prior to transfer.
Description: An introductory course covering the fundamental principles of plant science with emphasis on structure, function, reproduction, and development of seed plants. The principles will be related to the practices of applied plant biology in crop production, forestry, and horticulture.
Note: Not open to students who have successfully completed BIOL B10.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course

Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2; CSU GE B.3; BC GE B.1

Dance Courses
DANC B6BLB Beginning Ballet (PHED B6BLB)
1 unit
Description: Coeducational beginning ballet course, includes proper warm-up exercise, technical skills and terminology.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

DANC B6JD Jazz Dance (PHED B6JD)
1 unit
Description: Fundamental Jazz techniques and fundamental terminology of ballet as they relate to jazz dancing; including warm-up exercises for the preparation of the human body as an instrument for dance. Different styles and rhythms of jazz dance and music for jazz dance will be introduced.
Note: Not open to students who have completed PHED B6JD.
Hours: 54 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

Earth Science Courses
ERSC B10 Introduction to Earth Science
3 units
Prerequisites: Reading - one level prior to transfer.
Description: Introduction to the fundamentals of Earth Science, including the solid Earth, atmosphere, hydrosphere, and Earth’s place in the universe. Investigations include interactions between Earth’s systems including the rock cycle, plate tectonic cycle, weathering cycle, hydrologic cycle, and global climate. Two Saturday field trips are optional.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: GEOL 120
Transferable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

ERSC B10L Earth Science Laboratory
1 unit
Prerequisites: ERSC B10 with a grade of ‘C’ or better; may be taken concurrently.
Description: Earth Science laboratory exercises are designed to enhance lecture topics from Earth Science 10. Lab work will include the identification of rocks and minerals, the rock cycle, weather systems and the effect of weather on landforms, ocean systems and the solar system.
Note: This lab course can be taken subsequent to or concurrently with the lecture, ERSC B10.
Hours: 54 laboratory
CCS: Liberal Arts/Science
C-ID: GEOL 120L
Transferable: UC, CSU and private colleges; IGETC 5.C; CSU GE B.3; BC GE B.1
### Economics Courses

**ECON B1 Principles of Economics-Micro**

3 units  
**Prerequisites:** MATH B60 or equivalent introduction to algebra course with a grade of ‘C’ or better or Mathematics - one level prior to transfer.  
**Recommended:** Reading - one level prior to transfer; writing - one level prior to transfer, and MATH B70.  
**Description:** This is an introductory course focusing on choices of individual economic decision-makers. Topics include scarcity, specialization and trade, market equilibrium, elasticity, production and cost theory, market structures, factor markets, and market failure.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**C-ID:** ECON 201  
**Transferable:** UC, CSU and private colleges; IGETC 4.B; CSU GE D.2; BC GE D.2

**ECON B2 Principles of Economics-Macro**

3 units  
**Prerequisites:** MATH B60 or equivalent introduction to algebra course with a grade of ‘C’ or better or Mathematics - one level prior to transfer.  
**Recommended:** Reading - one level prior to transfer; writing - one level prior to transfer, and MATH B70.  
**Description:** An introductory course focusing on aggregate economic analysis. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibirum, money and financial institutions, monetary and fiscal policy, international economics, and economic growth.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**C-ID:** ECON 202  
**Transferable:** UC, CSU and private colleges; IGETC 4.B; CSU GE D.2; BC GE D.2

### Education Courses

**EDUC B24 Early Field Experience for Elementary Teachers**

3 units  
**Recommended:** Writing - one level prior to transfer.  
**Description:** This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, Kindergarten through grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California's content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California’s diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**C-ID:** EDUC 200  
**Transferable:** UC, CSU and private colleges

### Electronics Technology Courses

**ELET B1 Basic Electronics (DC and AC)**

4 units  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Introduction to electricity and electronics including basic components, electronic circuit calculations, basic electronic test equipment use, electrical measurement, relays and ladder diagrams, alternating current (AC) circuits, and electronic schematic diagrams  
**Hours:** 54 lecture, 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**ELET B4 Computer Integrated Manufacturing**

3 units  
**Prerequisites:** ELET B5 with a grade of ‘C’ or better.  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Introduction to industrial automation technologies and the procedures utilized when troubleshooting automated control systems. Topics include programmable logic controllers (PLC), machine control, industrial robots, barcode readers, material handling systems, and Ethernet communications.  
**Note:** Not open to students who have completed MFGT B4 or MFGT B50.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges

**ELET B5 Programmable Logic Controllers**

3 units  
**Prerequisites:** ELET B5 with a grade of ‘C’ or better.  
**Recommended:** Reading - one level prior to transfer.  
**Description:** The function and application of programmable logic controllers. Students will become familiar with the programming of Allen Bradley SLC-500 series controllers with RSLogix software. Topics covered include bit-level input and output instructions, timers, counters, latches, documentation, and troubleshooting.  
**Note:** Not open to students who have taken the equivalent course, MFGT B5.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**ELET B6 Analog and Digital Electronics**

3 units  
**Prerequisites:** ELET B1 with a grade of ‘C’ or better.  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Applications of analog and digital electronic circuits and systems. Content includes: semiconductor components, analog circuits (power supplies, amplifiers, and oscillators), digital electronic circuits (logic gates, sequential logic circuits), digital signal processing (A/D and D/A conversion).  
**Note:** Not open to students who have taken ELET B9 and ELET B12.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**ELET B55A Electric Motors - Controls**

4 units  
**Prerequisites:** ELET B1 with a grade of ‘C’ or better.  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Basic principles, applications, and configuration of direct current and alternating current motors and generators, motor
ELET B62 Radio Communications
3 units
Prerequisites: ELET B1 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: Introduction to the basic circuits and systems used for RF communications systems, including microwave and satellite communications, two-way radio systems, AM, FM, NBFM, and SSB modulation, antenna systems, and transmission lines.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

ELET B63 Electronic Systems Installation
3 units
Prerequisites: ELET B1 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: Electronic System Installation covers the design, installation, integration, and certification of residential low-voltage wiring systems, such as: telephone, data communications, video systems, cable and satellite systems, audio systems, home automation, security systems, and other integrated home technologies. Hands-on installation, testing, and certification of these systems will occur during the lab portion of this course. Students will be prepared for residential low-voltage industry certifications.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

ELET B70 Mechanical Systems
3 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to machinery and machining processes, essential elements of mechanical systems, mechanical drives (gears, belts and pulleys, clutches), mechanical hardware, bushings, lubrication systems, basic properties of materials, hydraulics and pneumatics, preventive maintenance, basic hand and power tools, and basic precision dimensional measurement.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

Emergency Medical Technician Courses

EMTC B10 Paramedic 1
6 units
Prerequisites: Limitation on enrollment, acceptance into the Paramedic Program.
Corequisite: EMTC B11
Description: This course introduces the student to the roles and responsibilities of the Paramedic within the Emergency Medical System. The student will be expected to apply basic concepts of anatomy, pathophysiology, pharmacology, patient assessment, the health and safety of the paramedic, documentation, and medical legal issues to be able to formulate a ‘field impression’ of patient status.
Hours: 108 lecture
CCS: Credit Course
Transferable: CSU and private colleges

EMTC B11 Paramedic Skills Lab
1 unit
Prerequisites: Limitation on enrollment, acceptance into the Paramedic Program and possess a high school diploma or general education equivalent and possess a current EMT certificate or NREMT-Basic registration or possess a current AEMT certificate in the State of California or be currently registered as an EMT-Intermediate with the NREMT and possess a current basic cardiac life support (CPR) card equivalent to the current American Heart Association's Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care at the healthcare provider level.
Corequisite: EMTC B10
Description: The focus of this skills lab course is to allow the student hands-on practice as well as to test for competency in patient assessment, medication administration, airway management, and cardiology. The topics taught in this course will be coordinated with the knowledge taught in EMTC B10.
to align with the weekly lessons taught during lecture in order to meet the performance objectives of the program. This lab course is hosted in a simulation lab and is the corequisite for Paramedic 10 and Paramedic 12.

**EMTC B12 Paramedic 2**

6 units  
**Prerequisites:** Limitation on enrollment, acceptance into the Paramedic Program.  
**Corequisite:** EMTC B11  
**Description:** This course includes the foundational material necessary to assess and manage patients in need of prehospital advanced life support at the paramedic level. Topics include: Prehospital Pharmacology, Cardiology, and Airway Management.

**EMTC B13 Paramedic 3**

6 units  
**Prerequisites:** Limitation on enrollment, acceptance into the Paramedic Program and successful completion of EMTC B10, EMTC B11, and EMTC B12 with a minimum GPA of 80%.  
**Corequisite:** EMTC B14  
**Description:** This course builds upon previous paramedic content and introduces the basic concepts of gastroenterology, genitourinary, hematology, non-traumatic musculoskeletal conditions, toxicology, psychology, medical ailments of the head, eyes, ears, nose, and throat, pulmonology, endocrinology immunology, neurology, and communicable diseases.

**EMTC B14 Paramedic Skills Lab 2**

1 unit  
**Prerequisites:** Limitation on enrollment, acceptance into the Paramedic Program.  
**Corequisite:** EMTC B13  
**Description:** The focus of this course is to build upon the knowledge gained in the first semester paramedic classes and to prepare the student for real hands-on experience in the clinical setting. This course tests for competency in patient assessment, medication administration, airway management, cardiology, medical emergencies and traumas. The topics taught in this course will be coordinated to align with the weekly lessons taught during lecture in order to meet the performance objectives of the program.

**EMTC B15 Paramedic 4**

6 units  
**Prerequisites:** Limitation on enrollment, acceptance into the Paramedic Program.  
**Corequisite:** EMTC B14  
**Description:** This course builds upon the content from the first semester paramedic courses and introduces the basic concepts of shock, traumas/burns, environmental emergencies, geriatrics, abuse, home health/special needs, ambulance operations, and weapons of mass destruction, Hazmat, bio terrorism, and the incident command system.

**EMTC B16 Paramedic Clinical Lab**

3.5 units  
**Prerequisites:** Limitation on enrollment, acceptance into the Paramedic Program and EMTC B15 successful completion (within six months) of paramedic didactic courses with an 80% or higher GPA.  
**Description:** This course involves clinical experience in the hospital setting enabling the paramedic student to utilize theory and practice learned during the didactic phase. The clinical rotation puts an emphasis on patient assessments and utilization of paramedic skills in the hospital setting under the direct supervision of an RN and/or MD as the clinical preceptor.

**EMTC B17 Paramedic Field Internship**

10 units  
**Prerequisites:** Limitation on enrollment, acceptance into the Paramedic Program and EMTC B16 successful completion (within six months) of EMTC B30 with an 80% or higher GPA.  
**Description:** This is the final course of the paramedic program. Field training is performed in a 911 system on an advanced life support ambulance under the direct supervision of a qualified paramedic preceptor. Field training continues the refinement of learned skills. It also advances student understanding by introducing them to a wide variety of prehospital emergencies in the form of on the job training.

**EMTC B50 Emergency Medical Technician I**

7.5 units  
**Prerequisites:** Student must be 18 years of age by the completion date of the course. Mandatory physical examination/immunizations and fit testing must be completed 2 weeks after the start of the course. Costs of meeting health requirements are paid by the student. Failure to meet these requirements will result in student ineligibility for clinical rotations. Students must have a copy of a current BLS (American Heart Association Health Care Provider) card.

**Recommended:** MEDS B60  
**Description:** Provides foundational skills and assessment techniques to care for an ill or injured person in the pre-hospital setting. Closely follows state regulations for EMT-1 training and leads to certification at the county level. Required for all ambulance personnel and appropriate for many other first responders such as law enforcement and fire personnel. The student must meet health requirements to participate in the laboratory section of the course. Any expenses involved in meeting the health requirements are the student’s expense. Students who do not possess CPR will not be accepted into the class. Mandatory physical examination/immunizations will be required within 2 weeks of the beginning of the course and are at the student’s expense. Failure to meet these requirements will result in student ineligibility for clinical objectives.

**Materials Fee:** $27.00  
**Hours:** 126 lecture, 27 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.
EMTC B50R Emergency Medical Technician I
Recertification Preparation
1 unit
Prerequisites: Must possess current EMT-1 certification or certification that has expired in less than one year.
Description: A review of material in EMTC B50 with updates on EMT-1 issues and new material or skill techniques. An approved refresher course that follows state regulations and leads to a recertification completion certificate. Required to continue practice of pre-hospital emergency care.
Materials Fee: $27.00
Hours: 24 lecture
Repeat: Legally Mandated Training
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

Engineering Courses

ENGR B17 Introduction to Electrical Circuits
3 units
Prerequisites: PHYS B4b with a grade of 'C' or better.
Recommended: MATH B6d (may be taken concurrently).
Description: Principles and techniques of D.C. and A.C. circuit analysis, including Kirchhoff's laws, mesh and nodal analysis, Thevenin's and Norton's theorems, impedance, phasors, frequency response, power calculations, natural and forced responses, analog building blocks, operational amplifiers, and Laplace transforms.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

ENGR B17L Electric Circuit Laboratory
1 unit
Prerequisites: ENGR B17 with a grade of 'C' or better; may be taken concurrently.
Description: Experimental verification of the electric circuit laws including Ohms law, Kirchhofs laws, network theorems, mesh and nodal analysis, Thevenin and Norton analysis, OP-amp circuits, sinusoidal RC, RL, RLC circuits, phasors, and ideal transformer. Use of electrical instruments and development of laboratory techniques.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

ENGR B19C Introduction to Programming Concepts and Methodologies for Engineers
3 units
Prerequisites: MATH B1B with a grade of 'C' or better
Description: The purpose of this course is expose students to (1) the fundamental concepts of procedure oriented programming, (2) associated abstraction mechanisms and design processes, (3) the interface of software with the physical world (e.g., the use of sensors), and (4) the application of programming concepts to numerical analysis techniques. This course utilizes the C/C++ programming language.
Hours: 36 lecture, 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

ENGR B24 Engineering Graphics and Descriptive Geometry
3 units
Prerequisites: MATH B1B with a grade of 'C' or higher.
Description: This course covers the principles of engineering drawings in visually communicating engineering designs and an introduction to computer-aided design (CAD). Topics include the development of visualization skills; orthographic projections; mechanical dimensioning and tolerancing practices; and the engineering design process. Assignments develop sketching and 2-D and 3-D CAD skills. The use of CAD software is an integral part of the course.
Hours: 36 lecture, 54 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges

ENGR B36 Engineering Mechanics-Statics
3 units
Prerequisites: MATH B6B and PHYS B4A with grades of 'C' or better.
Description: A first course in engineering mechanics: properties of forces, moments, couples and resultants; two- and three-dimensional force systems acting on engineering structures in equilibrium; analysis of trusses, and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges

ENGR B37 Engineering Mechanics-Dynamics
3 units
Prerequisites: ENGR B36 with a grade of 'C' or better.
Description: Fundamental principles of motions of particles and rigid bodies and their application to engineering problems. Velocity, acceleration, relative motion, work, energy, impulse and momentum. Mathematical modeling and analysis of mechanical systems.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges

ENGR B40 Surveying I
3 units
Prerequisites: High school trigonometry, or TECM B52 with a grade of 'C' or better, or concurrent enrollment in MATH B1B.
Recommended: Reading - one level prior to transfer
Description: Introduction to the techniques of calculation and survey instrument use in field measurements. Topics include measurements of distances, angles, and directions; differential leveling; traversing and traverse computations; total station instrument use and field procedure; coordinate geometry and area calculations; topographic surveys/mapping.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ENGR B41 Surveying II: Construction Surveying
3 units
Prerequisites: ENGR B40 with grade of 'C' or higher.
Recommended: Reading - one level prior to transfer
Description: Construction surveying methods and computations. Study of the surveying procedures in construction, including volume computations, horizontal curves, reverse curves, vertical curves, staking, grading, profiles and cross sections. Instrument experience is emphasized with both use and care of electronic and mechanical surveying equipment. Introduction to global positioning systems and photogrammetry.
Hours: 36 lecture, 54 laboratory
ENGR B45 Properties of Materials
3 units
Prerequisites: CHEM B2A and PHYS B2A and MATH B1B or CHEM B1A and PHYS B4A and MATH B1A each with a grade of ‘C’ or better.
Description: Internal structure of engineering materials. Characteristics of single and multiple phase metals; polymers, ceramics and composite materials. Mechanical, thermal, chemical and electrical behavior of engineering materials. Laboratory investigation of the physical properties of metals, wood, soils, concrete, and polymers.
Hours: 36 lecture, 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

ENGR B47 Introduction to Engineering and Design
3 units
Description: Introduction to the engineering profession and the engineering design process. Engineering Profession: Survey of engineering disciplines, functions, communications, and ethics. Includes development of a personal educational plan. Satisfies 0.5 unit educational planning requirement for graduation from Bakersfield College. Engineering Design: Introduction to the design process and some of the computational skills required to solve engineering problems. Students will work in teams to design, manufacture, and test products. Some training in the use of Excel to solve engineering problems.
Hours: 36 lecture, 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

ENGR B60 Introduction to Robotics
3 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to the basic concepts and control application of robotics. The operation of different types of end actuators is covered along with robotic microcontrollers and basic system sensors. Basic programming techniques are covered.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

English Courses

ENGL B1A Expository Composition
3 units
Prerequisites: English Level 6 – Transfer or ENGL B50 or ENGL B53 or ENSL B50/EMLS B50 with a grade of ‘C’ or better.
Description: Critical reading, writing, and thinking. Students will critically read and write primarily expository and argumentative texts that respond to a variety of rhetorical situations and contexts incorporating college-level research. Minimum 6,000 words formal writing.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGL 100
Transferable: UC, CSU and private colleges; IGETC 1.A; CSU GE A.2

ENGL B1B Introduction to Types of Literature
3 units
Prerequisites: ENGL B1A with a grade of ‘C’ or better.
Description: Introductory course in literature, comprising critical analysis of notable works in prose fiction, drama, and poetry, with emphasis on evaluating the logical relationship between form and content and on formulating criteria for artistic judgment. Continued instruction in the communication skills of writing, listening, and discussing.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: ENGL 120
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE A.3; CSU GE C.2; BC GE C.2

ENGL B2 Advanced Composition and Critical Thinking
4 units
Prerequisites: ENGL B1A with a grade of ‘C’ or better.
Description: An interdisciplinary team-taught course. Expository writing; reading of expository and literary works; study of the most important ideas in great works in disciplines such as philosophy, natural science, literature, and the social and behavioral sciences; survey of methods of critical thinking and advanced composition.
Hours: 72 lecture
CCS: Credit Course
C-ID: ENGL 105
Transferable: UC, CSU and private colleges; IGETC 1.B; CSU GE A.3; BC GE A.2

ENGL B3 Argumentative Writing and Critical Thinking Through Literature
4 units
Prerequisites: ENGL B1A with a grade of ‘C’ or better.
Description: This course offers instruction in argumentative, critical, and analytical writing, critical thinking, research strategies, information literacy, and proper documentation through the study of literary works from major genres, while developing students’ close reading skills and promoting an appreciation for the aesthetic qualities of literature.
Hours: 72
CCS: Credit Course
C-ID: ENGL 110
Transferable: UC, CSU and private colleges; IGETC 1.B; CSU GE A.3; BC GE A.2

ENGL B5A Survey of English Literature
3 units
Prerequisites: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: A historical survey of English literature, emphasizing critical reading of representative works from Beowulf through the eighteenth century. Recommended for students whose major or minor is English and for students who desire to extend their knowledge of the literary tradition.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGL 160
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE A.3; CSU GE C.2; BC GE C.2

ENGL B5B Survey of English Literature
3 units
Prerequisite: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: A historical survey of English literature, emphasizing critical reading of representative works from eighteenth century through the twenty-first century. Recommended for students whose

CCS: Occupational Education
Transferable: CSU and private colleges

ENGL 100
Prerequisites: CHEM B2A and PHYS B2A and MATH B1B or CHEM B1A and PHYS B4A and MATH B1A each with a grade of ‘C’ or better.
Description: Internal structure of engineering materials. Characteristics of single and multiple phase metals; polymers, ceramics and composite materials. Mechanical, thermal, chemical and electrical behavior of engineering materials. Laboratory investigation of the physical properties of metals, wood, soils, concrete, and polymers.
Hours: 36 lecture, 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

ENGL 105
Prerequisites: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: Critical reading, writing, and thinking. Students will critically read and write primarily expository and argumentative texts that respond to a variety of rhetorical situations and contexts incorporating college-level research. Minimum 6,000 words formal writing.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGL 100
Transferable: UC, CSU and private colleges; IGETC 1.A; CSU GE A.2

ENGL 110
Prerequisites: ENGL B1A with a grade of ‘C’ or better.
Description: An interdisciplinary team-taught course. Expository writing; reading of expository and literary works; study of the most important ideas in great works in disciplines such as philosophy, natural science, literature, and the social and behavioral sciences; survey of methods of critical thinking and advanced composition.
Hours: 72
CCS: Credit Course
C-ID: ENGL 105
Transferable: UC, CSU and private colleges; IGETC 1.B; CSU GE A.3; BC GE A.2

ENGL 160
Prerequisites: ENGL B1A with a grade of ‘C’ or better.
Description: A historical survey of English literature, emphasizing critical reading of representative works from Beowulf through the eighteenth century. Recommended for students whose major or minor is English and for students who desire to extend their knowledge of the literary tradition.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGL 160
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE A.3; CSU GE C.2; BC GE C.2

ENGL 120
Prerequisites: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: A historical survey of English literature, emphasizing critical reading of representative works from eighteenth century through the twenty-first century. Recommended for students whose

CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE A.3; CSU GE C.2; BC GE C.2

ENGL 105
Prerequisites: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: Critical reading, writing, and thinking. Students will critically read and write primarily expository and argumentative texts that respond to a variety of rhetorical situations and contexts incorporating college-level research. Minimum 6,000 words formal writing.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGL 100
Transferable: UC, CSU and private colleges; IGETC 1.A; CSU GE A.2

ENGL 110
Prerequisites: ENGL B1A with a grade of ‘C’ or better.
Description: An interdisciplinary team-taught course. Expository writing; reading of expository and literary works; study of the most important ideas in great works in disciplines such as philosophy, natural science, literature, and the social and behavioral sciences; survey of methods of critical thinking and advanced composition.
Hours: 72
CCS: Credit Course
C-ID: ENGL 105
Transferable: UC, CSU and private colleges; IGETC 1.B; CSU GE A.3; BC GE A.2

ENGL 160
Prerequisites: ENGL B1A with a grade of ‘C’ or better.
Description: A historical survey of English literature, emphasizing critical reading of representative works from Beowulf through the eighteenth century. Recommended for students whose major or minor is English and for students who desire to extend their knowledge of the literary tradition.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGL 160
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE A.3; CSU GE C.2; BC GE C.2

ENGL 120
Prerequisites: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: A historical survey of English literature, emphasizing critical reading of representative works from eighteenth century through the twenty-first century. Recommended for students whose

CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE A.3; CSU GE C.2; BC GE C.2

ENGL 100
Prerequisites: CHEM B2A and PHYS B2A and MATH B1B or CHEM B1A and PHYS B4A and MATH B1A each with a grade of ‘C’ or better.
Description: Internal structure of engineering materials. Characteristics of single and multiple phase metals; polymers, ceramics and composite materials. Mechanical, thermal, chemical and electrical behavior of engineering materials. Laboratory investigation of the physical properties of metals, wood, soils, concrete, and polymers.
Hours: 36 lecture, 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

ENGL 105
Prerequisites: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: Critical reading, writing, and thinking. Students will critically read and write primarily expository and argumentative texts that respond to a variety of rhetorical situations and contexts incorporating college-level research. Minimum 6,000 words formal writing.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGL 100
Transferable: UC, CSU and private colleges; IGETC 1.A; CSU GE A.2
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Recommended Courses</th>
<th>Description</th>
<th>Hours</th>
<th>CCS</th>
<th>Transferable</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B10</td>
<td>Introduction to Shakespeare</td>
<td>3</td>
<td>Writing - one level prior to transfer.</td>
<td>ENGL B1A</td>
<td>Study of the drama and sonnets of William Shakespeare. Recommended as an elective for majors in the humanities, history, or education. Historical information pertaining to Shakespeare and Elizabethan England will also be covered to increase students' appreciation of the Bard's accomplishments. Classroom discussions, oral presentations, and performance footage will provide further examples of the ongoing relevance of Shakespeare's work today.</td>
<td>54</td>
<td>165</td>
<td>UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2</td>
</tr>
<tr>
<td>ENGL B20A</td>
<td>Survey of World Literature</td>
<td>3</td>
<td>Writing - one level prior to transfer.</td>
<td>ENGL B1A</td>
<td>A study of representative works of world literature in historical and cultural contexts, focusing on their aesthetic significance and the enduring human values which unite the different literary traditions. Covers antiquity to approximately 1650.</td>
<td>54</td>
<td>Liberal Arts/Science</td>
<td>UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2</td>
</tr>
<tr>
<td>ENGL B21</td>
<td>African-American Literature</td>
<td>3</td>
<td>Writing - one level prior to transfer.</td>
<td>ENGL B1A</td>
<td>A historical survey of major authors, works, genres, themes, and movements in African-American literature in America from colonial times to the present.</td>
<td>54</td>
<td>Liberal Arts/Science</td>
<td>UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2</td>
</tr>
<tr>
<td>ENGL B24</td>
<td>Latino/a Literature</td>
<td>3</td>
<td>Reading - one level prior to transfer or ENGL B50 or ENGL B53 or ENSL B50 / EMLS B50 with a grade of 'C' or better.</td>
<td>ENGL B1A</td>
<td>This course will study works written by Latinas/os in the United States and Latin America in order to discover the ways in which these works have interacted with specific cultures and contexts, from colonialism to the present.</td>
<td>54</td>
<td>Liberal Arts/Science</td>
<td>UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2</td>
</tr>
<tr>
<td>ENGL B27</td>
<td>The Bible as Literature</td>
<td>3</td>
<td>Writing - one level prior to transfer.</td>
<td>ENGL B1A</td>
<td>Interpretation and analysis of Old and New Testament genres: Narrative, poetry, drama, epistles, didactics, wisdom, and prophecy.</td>
<td>54</td>
<td>Credit Course</td>
<td>UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2</td>
</tr>
<tr>
<td>ENGL B28</td>
<td>Classical Mythology</td>
<td>3</td>
<td>Writing - one level prior to transfer.</td>
<td>ENGL B1A</td>
<td>A study of classical myth, saga, and local legend, primarily Greek and Roman. Relates classical myths to historical and modern culture.</td>
<td>54</td>
<td>Credit Course</td>
<td>UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2</td>
</tr>
<tr>
<td>ENGL B30A</td>
<td>Survey of American Literature</td>
<td>3</td>
<td>Writing - one level prior to transfer.</td>
<td>ENGL B1A</td>
<td>Study of the most notable American authors from the colonial period to the American Civil War with emphasis on the intrinsic value of the literature.</td>
<td>54</td>
<td>Liberal Arts/Science</td>
<td>UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2</td>
</tr>
<tr>
<td>ENGL B30B</td>
<td>Survey of American Literature</td>
<td>3</td>
<td>Writing - one level prior to transfer.</td>
<td>ENGL B1A</td>
<td>Study of the most notable American authors from the second half of the 19th century to the present with emphasis on the intrinsic value of the literature.</td>
<td>54</td>
<td>Liberal Arts/Science</td>
<td>UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2</td>
</tr>
<tr>
<td>ENGL B33</td>
<td>Children's Literature</td>
<td>3</td>
<td>Writing - one level prior to transfer or ENGL B50 or ENGL B53 or ENSL B50 / EMLS B50 with a grade of 'C' or better.</td>
<td>ENGL B1A</td>
<td>This course introduces major works and develops students' reading and analytical writing skills while promoting an appreciation for the aesthetics, history, authors, genres, and themes of children's literature. Readings will include folklore, oral tradition, contemporary stories, illustrated books, poetry, and juvenile novels from a variety of cultures and critical perspectives.</td>
<td>54</td>
<td>Credit Course</td>
<td>UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2</td>
</tr>
</tbody>
</table>
ENGL B41A Introduction to Creative Writing
3 units
Prerequisite: ENSL B50/EMLS B50 or ENGL B50 with a grade of ‘C’ or better.
Recommended: ENGL B1A
Description: Introduction to the craft of creative writing of poetry, fiction, and other genres. Students will read, discuss, and analyze various literary works, and will produce and revise their own works. In addition, they will give and receive constructive criticism in a workshop environment.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGL 200
Transferable: CSU and private colleges

ENGL B50 Introduction to College Composition
4 units
Prerequisites: ENGL B60 or EMLS B60 with a grade of ‘C’ or better or Writing - one level prior to transfer.
Description: Emphasizes the writing of expository and argumentative essays and the comprehension and analysis of readings. Prepares transfer students for English B1a.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

ENGL B53 Reading, Reasoning, and Writing
4 units
Prerequisites: ACDV B68/ACDV B65 or ENSL B70/EMLS B70 with a minimum grade of ‘C’ or English Level 4.
Description: Emphasizes developing arguments and strengthening critical thinking, organizing, and reading and writing skills relevant to college work through a thematic approach. Prepares students for English B1a.
Note: For courses that list ENGL B50 as a prerequisite, either ENGL B50 or ENGL B53 with a grade of ‘C’ or better may be used.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

ENGL B60 Basic Writing Skills
4 units
Prerequisites: English Level 4 or ENSL B70/EMLS B70 or ACDV B68 or ACDV B65 with a minimum grade of ‘C’.
Description: Review and application of fundamentals of standard English. Emphasizes sentence, paragraph, and short essay writing.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

English for Multilingual Students

EMLS B50 Introduction to College Composition
4 units
Recommended: Writing - one level prior to transfer.
Description: Recommended for international and multilingual students who need to develop their skills in composition and persuasion as well as comprehension and analysis of reading. Stresses both organization and in-depth essay development as well as critical thinking. Prepares students for ENGL B1A.
Note: Not open to students who have completed ENSL B50 or ENSL B1.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B51 Advanced Reading
3 units
Recommended: Reading - one level prior to transfer
Description: Recommended for international and multilingual students who need to improve reading comprehension and building vocabulary in English. Emphasis is on identifying main ideas, summarizing, inferring, analyzing drawing comparisons, and developing more advanced vocabulary by reading complex academic and literary texts. Prepares students for college level reading.
Note: Not open to students who have completed ENSL B52.
Hours: 54 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B52 Advanced Communication Skills
3 units
Recommended: Reading - one level prior to transfer
Description: Recommended for international and multilingual students who need to improve reading comprehension and building vocabulary in English. Emphasis is on identifying main ideas, summarizing, inferring, analyzing drawing comparisons, and developing more advanced vocabulary by reading complex academic and literary texts. Prepares students for college level reading.
Note: Not open to students who have completed ENSL B22.
Hours: 54 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B60 Basic Skills Writing
4 units
Recommended: Writing - two levels prior to transfer
Description: Recommended for international and multilingual students at the advanced level of English who require grammar and composition skills necessary to take essay exams, improve personal and professional writing, or prepare for EMLS B50 or ENGL B50.
Note: Not open to students who have completed ENSL B60.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B61 Intermediate Reading
4 units
Recommended: Reading - two levels prior to transfer
Description: Recommended for international and multilingual students at the advanced level of English who require grammar and composition skills necessary to take essay exams, improve personal and professional writing, or prepare for EMLS B50 or ENGL B50.
Note: Not open to students who have completed ENSL B60.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B62 Intermediate Communication Skills
3 units
Recommended: Reading - two levels prior to transfer
Description: Recommended for international and multilingual students who need communication and pronunciation skills. Emphasis is on critical listening skills, oral presentations, class discussions, and pronunciation practice.
Note: Not open to students who have completed ENSL B21.
EMLS B70 Grammar and Composition
4 units
Recommended: Writing - three levels prior to transfer
Description: Recommended for international and multilingual students at the high-intermediate level of English who require grammar and composition skills necessary to take essay exams, improve personal written communication, or prepare for EMLS B60.
Note: Not open to students who have completed ENSL B70 or ENSL B3.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B71 Basic Reading
4 units
Recommended: Reading - three levels prior to transfer
Description: Recommended for international and multilingual students who need to improve reading comprehension and build their vocabulary in English. Emphasis is on identifying main ideas, summarizing, making inferences, developing vocabulary, and using academic language.
Note: Not open to students who have completed ENSL B61.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B72 Basic Communication Skills
4 units
Recommended: Reading - three levels prior to transfer
Description: Recommended for international and multilingual students who need to improve their listening and speaking skills in small groups as well as in larger settings. The focus is on improving pronunciation, intonation, rhythm, and stress patterns as well as listening comprehension in small group settings and classroom lectures.
Note: Not open to students who have completed ENSL B71CD.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

Fire Technology Courses

FIRE B1 Fire Protection Organization
3 units
Description: Career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations offering the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics. Field trips required.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B2 Principles of Fire and Emergency Services
Safety and Survival
3 units
Prerequisites: FIRE B1 with a grade of ‘C’ or better.

FIRE B3 Fire Command, Strategy, & Tactics
3 units
Prerequisites: FIRE B1 with a grade of ‘C’ or better.
Description: This course will cover fire department organization, management, resources, and the use of those resources to control various types of emergencies. The course will also cover the incident command system, tactics, and strategies. This course also provides an introduction to the national incident management system.
Hours: 54 lecture
CCS: Occupationl Education
Transferable: CSU and private colleges

FIRE B4 Fire Behavior and Combustion
3 units
Prerequisites: FIRE B1 with a grade of ‘C’ or better.
Description: Theory and fundamentals of how and why fires start, spread and are controlled; an in-depth study of fire chemistry and physics, fire burning characteristics of materials, extinguishing agents, and fire control techniques.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B5 Fire Prevention
3 units
Prerequisites: FIRE B1 with a grade of ‘C’ or better.
Description: Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention systems, fire investigation and fire safety education.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B6 Fire Protection Equipment and Systems
3 units
Prerequisites: FIRE B1 with a grade of ‘C’ or better.
Description: This course provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B7 Building Construction for Fire Protection
3 units
Prerequisites: FIRE B1 with a grade of ‘C’ or better.
Description: The study of the components of building construction that relate to fire/life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at fires/collapse emergencies. The development and evolution of building
and fire codes will be studied in relationship to past fires/collapses
in residential, commercial, and industrial occupancies.

Note: elective credit only.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

**FIRE B25A Wildland Fire Behavior**

3 units

**Description:** Provides the knowledge to understand wildland fire behavior at the supervisory level in the Incident Command System. Conforms to curriculum requirements of the National Wildfire Coordinating Group. Includes, but is not limited to, the material contained in S-290 Intermediate Fire Behavior.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

**FIRE B25B Wildland Firefighter Safety and Survival**

3 units

**Description:** Study of factors that lead to unsafe working conditions in wildland firefighting and procedures to limit risk. Emphasis is placed on avoiding situations and conditions which have resulted in the fire shelter deployments, injuries, and fatalities. The Ten Standard Fire Orders and the Eighteen Situations that Shout Watch Out are studied in detail. Course meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

**FIRE B25C Wildland Fire Operations**

3 units

**Description:** Presents the command structure and operational process of ground and air operations in the control of wildland fires. Fixed wing aircraft and helicopters are discussed. Includes interagency relationships, mobilization, trainee assignments, and the incident assignment kit. Course meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

**FIRE B25D Wildland Public Information Officer, Prevention, and Investigation**

3 units

**Description:** Presents the information necessary to understand the roles and functions of the Wildland Fire Information Officer, Wildland Fire Prevention Officer, and Wildland Fire Investigation Officer.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

**FIRE B25E Wildland Fire Logistics, Finance, and Planning**

3 units

**Description:** Explains the roles, responsibilities, and functions of the planning, logistics, and finance sections that are utilized during the control of wildland fires. Meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

**FIRE B25A S-200 Initial Attack Incident Commander (ICT 4)**

1 unit

**Description:** Prepares the student to function as an initial attack incident commander at the ICT4 level in the incident Command System. Includes preparation, mobilization, size up, leading the initial attack, and initial attack strategy. Meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 18 lecture

CCS: Credit Course

Transferable: CSU and private colleges

**FIRE B25D Interagency Incident Business Management S-260**

1 unit

**Description:** Provides knowledge to perform the tasks of the position in the Incident Command System (ICS) for which basic incident business management is required. Provides policy and direction for incident business management. Intended for students to pursue a career with a wildland fire suppression agency or for a specialty with a municipal fire control agency.

Hours: 18 lecture

CCS: Credit Course

Transferable: CSU and private colleges

**FIRE B25E S-215 Fire Operations in the Wildland/Urban Interface**

1.5 units

**Description:** Designed to meet the training needs for incident commanders (Type 4), strike team leaders, and company officers confronting wildland fire that threatens life, property, and improvements in the wildland urban interface. Course meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 27 lecture

CCS: Credit Course

Transferable: CSU and private colleges

**FIRE B25G S-230 Crew Boss Single Resource**

1.5 units

**Description:** This is a classroom course designed to produce student proficiency in the performance of duties associated with the single resource boss position from initial dispatch through demobilization to the home unit. Topics include operational leadership, preparation and mobilization, assignment preparation, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization, and post-incident responsibilities.

Hours: 27 lecture

CCS: Occupational Education

Transferable: CSU and private colleges
FIRE B26K S-244 Field Observer
1.5 units
Description: This course provides the student with the skills necessary to perform as a field observer (FOBS) and/or a fire effects monitor (FEMO). Topics include roles and responsibilities of the FOBS and FEMO; how to make observations and document those observations; how to produce hand drawn and GPS field maps; and how to navigate using a compass and GPS. The navigation unit has field exercises, and the final field exercise will total 8 hours. Meets National Wildfire Coordinating Group/California State Fire Marshal curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments. Offered: As a National Wildfire Coordinating Group /State Fire Marshal CFSTES class.
Hours: 27 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B26M Display Processor
1 unit
Description: This course provides students with the skills necessary to perform as a display processor (DPRO). Topics include general roles and responsibilities and how to assist the situation unit leader with producing incident maps, inputs for the Incident Status Summary (ICS-209) and other incident products. Pre-course work, students need to read specific chapters in Basic Land Navigation (NFES 2865). This class is a National Wildfire Coordinating Group /State Fire Marshal CFSTES class.
Hours: 18 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B27B 1-300 Incident Command System
1.5 units
Description: Provides description and detail of the organization and operation of the ICS. Covers management of resources, duties of all positions including the Air Operations organization, and example of how the essential principles are used in incident and event planning. Meets the curriculum requirements of the National Wildfire Coordinating Group. Applicable to wildland fire management agencies and municipal fire departments. Offered as a National Wildfire Coordinating Group /State Fire Marshal CFSTES class.
Hours: 27 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B28B L-280 Followership to Leadership
1 unit
Description: This training course is designed as a self-assessment opportunity for individuals preparing to step into a leadership role. The course combines classroom and lab (in the field) instruction, with students working through a series of problem solving events in small teams (Field Leadership Assessment Course).
Hours: 20 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B29 S-212 Wildland Fire Chain Saws
2 units
Description: Prepares students to become a wildfire powersaw operator within the National Interagency Management System. Covers safety considerations, techniques of saw operation, maintenance, and repair. Wildland Fire Chain Saws (S-212) is identified training in the National Wildfire Coordinating Group Suppression/California State Fire Marshal Curriculum. Intended for students to pursue a career with a federal or state wildland fire management agency or as specialty training with a municipal/county fire agency.
Hours: 36 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B30 RT130 Wildland Skill Refresher
2 units
Description: Annual fireline Safety Refresher Training is designed to provide up-to-date fireline safety information to anyone who will be working on the fireline. The RT130 class was developed to recognize hazards, mitigate risk, maintain safe practices, and reduce accidents and near misses on the fire ground.
Hours: 9 lecture, 81 laboratory
Repeat: unlimited, legally mandated training
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

FIRE B50A Fire Command 2A-Command Tactics at Major Fires
2 units
Description: Concepts and methods for Chief Officers to understand complex fire ground operations. Stresses the multiple company response and the efficient use of human and material resources in handling major structural fires. Accredited by the California Fire Service Training and Education System (CFSTES) for Chief Officer certification.
Hours: 40 lecture
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

FIRE B50B Fire Command 2B-Scene Management at Major Incidents
2 units
Description: Management techniques for Chief Officers to control major fire disasters. Techniques in developing and writing plans for fire disaster control and in managing local disasters. Accredited by the California Fire Service Training and Education System (CFSTES) for Chief Officer certification.
Hours: 40 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FIRE B50C Fire Command 2C-High Rise Fire
2 units
Description: Command and control techniques used at the scene of an emergency by fire company officers. Emphasizes decision making, the act of commanding, personnel and organization structures and pre-planning for effective command performance particularly related to high-rise building emergencies. Includes a review of the Incident Command System instituted by the State of California Fire Services.
Hours: 40 lecture
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

FIRE B50D Fire Command 2D, Management of Large Scale Disasters
2 units
Description: Essential management techniques for Chief Officers needed to control major disasters. Developing and writing plans for disaster control and managing local disasters emphasized.
Accredited by the California Fire Service Training and Education System (CFSTES) for Chief Officer certification.

**HOURS**: 40 lecture

**CCS**: Credit Course

**Transferable**: Certificate of Achievement only. Not transferable.

**FIRE B50E Fire Command 2E-Wildland Tactics**

2 units

**Description**: California’s wildland fire problem will be examined through wildland fire safety, weather effects, fuels, fire behavior, initial attack methods, using support equipment, including the use of topographic maps, strategy and tactics, and air attack operations. Accredited by the California Fire Service Training and Education System Chief Officer certification requirements.

**Hours**: 36 lecture, 4 laboratory

**CCS**: Credit Course

**Transferable**: Not transferable. Not degree applicable.

**FIRE B50F Fire Management 2A-Organizational Development and Human Relations**

2 units

**Prerequisites**: FIRE B51A with a grade of ‘C’ or better.

**Description**: This course provides information on the foundations of 1) individual behavior, personality and emotions, motivational concepts, individual decision-making; 2) group behavior, work teams, group dynamics, group communication, conflict and negotiations, power and politics, leadership and creating trust; and 3) organizational structure, human resources policies and practices, organizational culture, and organizational change and development. Accredited by the California Fire Service Training and Education System (CFSTES) for Chief Officer Certification.

**Hours**: 40 lecture

**CCS**: Credit Course

**Transferable**: Associate Degree only. Not transferable.

**FIRE B50G Fire Management 2B, Fire Service Financial Mgt**

2 units

**Description**: This course is designed to provide insight into the cyclical nature of budgeting and financial management. As a management course, the student will become familiar with essential elements of the financial planning, budget preparation, budget justification, and budget controls. Offered as a State Fire Marshal CFSTES class.

**Hours**: 40 lecture

**CCS**: Credit Course

**Transferable**: Associate Degree only. Not transferable.

**FIRE B50H Fire Management 2C - Personnel and Labor Relations**

2 units

**Description**: Provides a fire manager with knowledge and insight of personnel, human resources, diversity management, legal mandates, labor relations, and related areas. Accredited by the California Fire Service Training and Education System for Chief Officer certification.

**Hours**: 36 lecture

**CCS**: Credit Course

**Transferable**: Associate Degree only. Not transferable.

**FIRE B50I. Fire Management 2D-Strategic Planning**

2 units

**Description**: Long-range fire protection planning. Emphasizes program planning, strategic planning, forecasting, systems analysis, systems design, research, networking policy analysis and plans and reports. Accredited by the California Fire Service Training and Education System for Chief Officer certification.

**Hours**: 36 lecture

**CCS**: Credit Course

**Transferable**: Not transferable. Not degree applicable.

**FIRE B50J Fire Management 2E-Ethics and the Challenge of Leadership**

2 units

**Description**: In this course, the participant will correlate personal core values and characteristics to ethical decisions and behaviors. In addition, the participant will explore ethical and principle-centered leadership, including ethical systems, ethical dilemmas, and ethical decision-making models. The participant will also examine challenges and develop strategies for leading in public safety organizations serving diverse and dynamic communities. The participant will use a variety of learning modalities including case studies, video analyses, and critical thinking scenarios to explore ethics and the challenges of leadership. Accredited by the State Fire Marshal as a CFSTES for Chief Officer certification.

**Hours**: 40 lecture

**CCS**: Credit Course

**Transferable**: Associate Degree only. Not transferable.

**FIRE B51A Fire Management 1A**

2 units

**Description**: Planning, operating and controlling the personnel functions necessary to become a company officer. Emphasizes training, counseling, managing the development of a firefighter, participating in departmental grievance procedures, managing discipline, morale, safety standards and diversity in the workplace. This course is one in a series of State Fire Marshal classes required for certification as a fire officer. This course is AA/AS degree applicable, but is not transferable to a four year college.

**Hours**: 40 lecture

**CCS**: Occupational Education

**Transferable**: Associate Degree only. Not transferable.

**FIRE B51B Fire Command 1A**

2 units

**Prerequisites**: FIRE B1 with a grade of ‘C’ or better.

**Description**: This course provides an introduction to the principles of command, an overview of the concepts of command safety and the risk management process, preincident planning considerations, command considerations at structure fire incidents, Company Officer initial actions at an incident including the development of incident priorities, strategy, and tactics, information on the roles and responsibilities of a Company Officer for post-incident actions. Each student will have the opportunity to gain experience in a controlled environment through structure fire incident simulations.

**Hours**: 38 lecture, 2 laboratory

**CCS**: Credit Course

**Transferable**: Associate Degree only. Not transferable.

**FIRE B51C Fire Command 1B**

2 units

**Prerequisites**: FIRE B51b with a grade of ‘C’ or better.

**Description**: This class will provide information and knowledge in command and control techniques used at the scene of hazardous material incidents. Emphasizes acts of commanding, the authority or right to command, the personnel organization or area under incident commander and the performance requirements for Fire Service Officers.
FIRE B51D Fire Prevention 1A
2 units
Description: Basic skills and knowledge necessary for Fire Prevention Officer Level I. Legal responsibilities and authority, Occupancy Classification and building construction, egress requirements, fire resistive assemblies, general fire safety provisions, and general principles procedures of fire inspections.
Hours: 40 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

FIRE B51E Fire Prevention 1B
2 units
Recommended: FIRE B51d with a grade of ‘C’ or better.
Description: Basic fire prevention information for company officers so they may respond to a variety of fire prevention situations in a professional and effective manner. Meets NFPA 1031 Fire Inspection Professional Qualifications and California State Board of Fire Services Standards for Fire Prevention Officer 1B.
Hours: 40 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FIRE B51F Fire Investigation 1A
2 units
Description: This course provides the participants with an introduction and basic overview of fire scene investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire’s origin. Arson investigators will successfully carry out their responsibilities in arson detection and explosives investigation. Emphasizes essential elements of fire and explosives behaviors, types and use of laboratory services, and investigative responsibilities of an investigator at location of arson and explosives incidents. Meets P.O.S.T. certification requirements. Offered as a State Fire Marshal CFSTES class.
Hours: 40 lecture
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

FIRE B51G Training Instructor 1A
2 units
Description: This is the first of a three-course series. Topics include methods and techniques for training in accordance with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching cognitive lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Two student teaching demonstrations are required of each student.
Hours: 40 lecture
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

FIRE B51H Training Instructor 1B
2 units
Description: This is the second of a three-course series. Topics include methods/techniques for training with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching psycho-motor lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Two student teaching demonstrations are required of each student.
Hours: 40 lecture
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

FIRE B51I Fire Investigation 1B
2 units
Description: This course is designed around the responsibilities of the Company Officer at a wildland/urban interface incident. It will bring the structural Company Officer out of the city and into the urban/interface; in other words, from his or her comfort zone into an area that could very well be quite unfamiliar for Fire Service Officers.
Hours: 32 lecture, 8 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FIRE B51J Fire Command 1C
2 units
Description: This course provides the student with information on driver responsibilities, recognized standards, and related laws for fire apparatus reflecting current California Vehicle Code requirements and the 2009 NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. Topics include basic inspections, documentation, maintenance, and troubleshooting fire apparatus, and techniques on driving and positioning fire apparatus. Each student also has the opportunity to increase his or her driving skills during simulated driving conditions.
Hours: 24 lecture, 16 laboratory
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

FIRE B51K Fire Apparatus Driver/Operator 1A
2 units
Prerequisite: FIRE B62 or FIRE B63 with a grade of ‘C’ or better and a California Class B driver’s license, fire fighter restricted.
Description: This course provides the student with information on driver responsibilities, recognized standards, and related laws for fire apparatus reflecting current California Vehicle Code requirements and the 2009 NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. Topics include basic inspections, documentation, maintenance, and troubleshooting fire apparatus, and techniques on driving and positioning fire apparatus. Each student also has the opportunity to increase his or her driving skills during simulated driving conditions.
Hours: 24 lecture, 16 laboratory
CCS: Credit Course
Transferable: Associate Degree only

FIRE B51M Fire Apparatus Driver/Operation 1-B
2 units
Prerequisite: California driver’s license, Class A, B or C, with a fire fighter endorsement.
Description: This course was developed to reflect the 2009 NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. This course provides the student with information on pump construction and theory of pump operations. Topics include
methods for performing basic hydraulics and techniques on basic inspections, documentation, maintenance, and troubleshooting fire pumps. Each student also has the opportunity to increase his or her pumping skills during simulated pumping conditions.

**FIRE B60 Driver/Operator Certification**

2 units

**Description:** Knowledge and skills in pump operations for fire engineers. Includes procedures on pumps, pumping principles, practical hydraulics, safe apparatus operation en route and at scenes of emergencies, principles of reading and interpreting gauges, hydrant operations and drafting procedures.

**Hours:** 24 lecture, 16 laboratory

**CCS:** Credit Course

**Transferable:** Not transferable. Not degree applicable.

**FIRE B63 Fire Fighter II Academy**

12.5 units

**Description:** Basic educational and practical training essential for the achievement of job tasks specified for Fire Fighter II. Covers general knowledge germane to the profession, fire department communications, fire ground operations, rescue operations, and prevention, preparedness, and maintenance. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications. Meets requirements for the California State Board of Fire Services, Fire Fighter II certification.

**Hours:** 108 lecture, 351 laboratory

**CCS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.

**FIRE B64 State Fire Fighter I Academy**

15 units

**Description:** Provides the skills and knowledge needed for the entry level fire fighter, career or volunteer, to perform their duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications, the 2012 edition of NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications and the 2008 edition of NFPA 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. The curriculum includes: fire department communications, fire ground operations, rescue operations, preparedness and maintenance, wildland suppression activities, and hazardous materials/WMD.

**Hours:** 167 lecture, 371.5 activity/skills

**CCS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.

**FIRE B66 Fire Fighting and Emergency Medical Skills**

8 units

**Prerequisites:** FIRE B62 or FIRE B63 with a grade of ‘C’ or better.

**Description:** Programs, workshops, seminars, and hose ladders, tools, salvage, chemistry, extinguisher and agents, fire control, prevention, arson, crowd and traffic control, manual aid, communications, fire and health safety, and emergency rescue techniques. Updates the skills of EMT 1-non-ambulance certificate holders as prescribed by law.

**Hours:** 90 lecture, 162 laboratory

**Repeat:** unlimited, legally mandated training

**CCS:** Credit Course

**Transferable:** Not degree applicable. Not transferable.

**FIRE B70A Hazardous Materials for First Responders**

1 unit

**Description:** This class is mandated by law or called upon by necessity to assess, plan for, and initiate mitigation of incidents involving hazardous materials. Content covers the extent and nature of today’s hazardous materials problem, effects of weather, topography, and environmental conditions on the behavior of hazardous materials and the containment efforts these conditions require. Defensive tactics to contain the release from a safe distance, keep it from spreading, and prevent exposures without trying to stop the release. Meets and exceeds the requirements of CFR 29 1910.120 and CCR Title 8. This course meets National Wildfire Coordinating Group and State Fire Marshal CFSTES class.

**Hours:** 24 lecture

**CCS:** Credit Course

**Transferable:** Not degree applicable. Not transferable.

**FIRE B70B First Responder Operational-Decontamination**

0.5 unit

**Description:** This course will provide the hazardous materials emergency responder with the processes used in decontamination and methods to limit the spread of hazardous materials contamination in a safe and competent manner. As a National Wildfire Coordinating Group /State Fire Marshal CFSTES/CSTI class.

**Hours:** 9 lecture

**CCS:** Credit Course

**Transferable:** Not degree applicable. Not transferable.

**FIRE B70C Hazardous Materials Incident Commander/Scene Manager**

1 unit

**Description:** Provide students with competencies needed to assume the role of an Incident Commander, as well as leadership skills for any other Command of Staff Incident Command System positions which are necessary during a hazardous materials incident. Content will also accentuate personnel safety and Occupational Education

**Hours:** 18 lecture

**CCS:** Credit Course

**Transferable:** Not degree applicable. Not transferable.

**FIRE B70D Hazardous Materials Technician/Specialist**

1A: Basic Chemistry

2 units

**Description:** Technical training in the physical and chemical terminology important to hazardous materials technicians/specialists and prevention officers, ability to determine properties of a chemical compound by name or formula. Includes study of important terms which describe properties, reactions with other materials, and the effects upon human beings, environment, and property. Applies to Hazardous Materials Technician/Specialist certification. This also meets the State Fire Marshal California State
FIRE B70E Hazardous Materials Technician/Specialist 1B: Applied Chemistry
1 unit
Description: This course will review the basic terminology and theory of chemistry as it relates to hazardous materials incident management. Additional new content to include: hazard and risk management; behavior and effect of toxicant and the major biological systems affected by toxicant; as well as using monitoring equipment to detect hazardous atmospheres and unknown solids and liquids. Applies to Hazardous Materials Technician/Specialist I certification.
Hours: 40 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

FIRE B70F Hazardous Materials Technician/Specialist 1C: Incident Considerations
2 units
Description: Content covers hazardous materials data research; meteorological considerations that influence hazardous materials response activities; hazardous materials incidents command concepts associated with response activities; incident specific considerations that influence hazardous materials response activities; and legislative and regulatory policies that impact hazardous materials response activities. Applies to Hazardous Materials Technician/Specialist certification and is a California State Training Institute class.
Hours: 32 lecture, 8 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

FIRE B70G Hazardous Materials Technician/Specialist 1D: Tactical Field Operations
1.5 units
Description: Information on confinement, including diking, dams and sorbent; awareness on plugging and patching; application of chemical protective clothing; preservation of evidence; and emergency medical considerations at a hazardous materials incident. Applies to Hazardous Materials Technician/Specialist certification. Offered: As a California State Training Institute class.
Hours: 18 lecture, 27 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

FIRE B70H Hazardous Materials Technician/Specialist 1E: Special Mitigation Techniques
1 unit
Description: Content covers medical monitoring guidelines; use of Level 'A' chemical protective clothing; repair leaks on a rail tank car; procedures to simulate off-loading hydrocarbons from a rolled over DOT MC-306/406 aluminum tank truck; and practice as a member of a hazardous materials team in simulated hazardous materials incidents. Applies to Hazardous Materials Technician/Specialist certification.
Hours: 9 lecture, 31 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

FIRE B70I Hazardous Materials Technician/Specialist 1F: Advanced Field Operations
1 unit
Description: Practical application of methods and procedures to mitigate leaking containers; transferring hazardous materials between containers; classifying known and unknown chemicals; participating as a member of hazardous materials team in simulated hazardous materials incidents; and exercising safe methods while operating at hazardous materials incidents. Applies to Hazardous Materials Technician/Specialist certification.
Hours: 9 lecture, 31 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

FIRE B71A Seasonal Firefighter Basic Training 1
2 units
Description: All of the federal fire agencies and many municipal fire departments recognize this course as the foundation to all subsequent wildland fire training. This is “The Basics” it will provide students with an understanding of wildland firefighting principals, tactics, organization, and fireline safety. This class covers NWCG L180, S130, and S190 course material.
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate degree only. Not transferable.

FIRE B71B Seasonal Firefighter Basic Training 2
1 unit
Prerequisites: FIRE B71A with a grade of 'C' or better.
Description: Manipulative and technical training in the identification and operation of wildland fire tools and equipment. Includes fire-line construction practices, physical fitness and water-handling equipment. Satisfies one-half of required training standards.
Hours: 9 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate degree only. Not transferable.

FIRE B71E Wildland Fire Behavior and Control
0.5 unit
Description: Basic watershed fire behavior. Environmental factors of fire behavior which start and spread watershed fires, and basic fire suppression methods applicable to breaking the fire triangle are emphasized. Meets National Interagency Incident Management System certification.
Hours: 9 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B72A Rescue Systems 1
2 units
Description: Technical knowledge and practical skills necessary to successfully perform team organization, rescue, and environmental considerations, use of ropes, knots rigging and pulley systems, descending, rappelling, and belaying tools and techniques, subsurface rescue techniques, use of cribbing, wedges, cutting/prying and hydraulic tools, use of fire service ladders in specialized rescue situations, and day and night simulated rescue exercises. Accredited by the California Fire Service Training and Education System.
Hours: 24 lecture, 16 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.
FIRE B72D Swi{}ft Water Rescu{e}  
**1 unit**  
**Description:** Basic techniques necessary to perform emergency rescue procedures involving swift water rivers. Emphasizes basic rescue knot practices, handling small rescue boats, emergency care, and controlling special hazard and problems in swift water emergencies.  
**Hours:** 18 lecture  
**CCS:** Credit Course  
**Transferable:** Not degree applicable. Not transferable.

FIRE B72F Auto Extrication  
**0.5 unit**  
**Description:** A systematic approach to vehicle rescue, and the use of mechanical and hand tools used in the extrication process.  
**Hours:** 4 lecture, 12 laboratory  
**CCS:** Credit Course  
**Transferable:** Not degree applicable. Not transferable.

FIRE B72H Emergency Medical Technician  
**7.5 units**  
**Prerequisites:** Student must be 18 years of age by the completion date of the course.  
**Recommended:** FIRE B1 with a grade of ‘C’ or better.  
**Description:** Designed to prepare students for the national registry exam and certification as California State Emergency Medical Technicians and gain employment as a Firefighter or ambulance attendant or law enforcement officer. After successful completion of this course, students will be authorized to take the National Registry EMT examination. Topics discussed include pre-hospital care terminology, cardiovascular emergencies, pre-hospital childbirth, communicable disease, extrication tools and equipment, automatic external defibrillator and an understanding of the emergency medical system. Course content is based on the guidelines and authority of Title 22, Division 9 of the California Code of Regulations, U.S. Department of Transportation Emergency Medical Technician-Based Standard National Curriculum, National Registry EMT Examinations, US Department of Transportation, and National EMS Education Standards (HS 811 077A). Students must be 18 years of age and have a current CPR card. Students are responsible for paying any certification fees.  
**Hours:** 126 lecture, 27 laboratory  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

FIRE B72I Emergency Medical Technician I Refresher  
**1 unit**  
**Prerequisites:** FIRE B72H with a grade of ‘C’ or better.  
**Description:** A review of material in Fire B72H with updates on EMT-1 issues and new material or skill techniques. An approved refresher course that follows state regulations and leads to a re-certification completion certificate. This course meets the requirements to continue practicing pre-hospital emergency care in the County of Kern.  
**Note:** Not open to students who have completed EMTC B50R.  
**Hours:** 24 lecture  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

FIRE B78 Advanced Officer Training  
**0.5 unit**  
**Recommended:** FIRE B62 with a grade of ‘C’ or better.  
**Description:** Contemporary techniques of supervision, concentrating on supervision techniques identified by local fire service agencies.  
**Hours:** 9 to 36 lecture  
**Repeat:** 1  
**CCS:** Occupational Education  
**Transferable:** Not degree applicable. Not transferable.

FIRE B79 Instructor Orientation  
**0.5 unit**  
**Recommended:** FIRE B51G, FIRE B51H with grades of ‘C’ or better.  
**Description:** Assists fire technology instructors with information needed to properly administer classroom activities. State certification system, administrative procedures, curriculum development and organization, publication format and style, and teaching strategies for accredited regional courses are emphasized.  
**Hours:** 9 to 24 lecture  
**CCS:** Occupational Education  
**Transferable:** Not degree applicable. Not transferable.

FIRE B83A Wildfire Origin and Cause Determination  
**0.5 unit**  
**Description:** Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.  
**Hours:** 27 lecture  
**CCS:** Occupational Education  
**Transferable:** Not degree applicable. Not transferable.

FIRE B83B Fire Operations in the Urban Interface  
**0.5 unit**  
**Description:** Professional development workshops and seminars related to specific topics of the Incident Command Systems. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.  
**Hours:** 27 lecture  
**CCS:** Occupational Education  
**Transferable:** Not degree applicable. Not transferable.

FIRE B83C Interagency Helicopter Training Guide  
**0.5 unit**  
**Description:** Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.  
**Hours:** 40 lecture  
**CCS:** Occupational Education  
**Transferable:** Not degree applicable. Not transferable.

FIRE B83D Field Observer/Display Processor  
**0.5 unit**  
**Description:** Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.  
**Hours:** 32 lecture  
**CCS:** Occupational Education  
**Transferable:** Not degree applicable. Not transferable.
FIRE B83F Firing Methods and Procedures
0.5 unit
Description: Professional development workshops and seminars related to specific topics of the Incident Command Systems. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.
Hours: 24 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B83G Helibase Manager
0.5 unit
Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.
Hours: 24 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B83I Basic Air Operations
0.5 unit
Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.
Hours: 12 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B83J Intermediate Wildland Fire Behavior
0.5 unit
Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.
Hours: 32 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B83K Incident Commander, Multiple Resources
Extended Attack
0.5 unit
Description: Professional development workshops and seminars related to specific topics of the Incident Command System.
Hours: 9 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B83L Fire Suppression Tactics
0.5 unit
Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.
Hours: 32 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B83M Strike Team Leader/Crew
0.5 unit
Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.
Hours: 12 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B83N Strike Team Leader/Engine
0.5 unit
Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.
Hours: 12 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B83O Strike Team Leader/Dozer
0.5 unit
Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.
Hours: 10 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B83P Division/Group Supervisor
0.5 unit
Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.
Hours: 12 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B83Q Situation Unit Leader
0.5 unit
Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.
Hours: 24 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FIRE B83X Communications Unit Leader
1.5 units
Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Interagency Incident Management System.
Hours: 36 lecture
Food Service Courses

FDSV B50 Introduction to the Foodservice Industry
2 units
Recommended: Reading - one level prior to transfer.
Description: An introduction to the foodservice industry including history, trends, organization and job opportunities. Entry skills to be taught include communication techniques, terminology, work simplification, application of computational skills, safety procedures, time management, equipment identification and operation, and knife skills and cutting techniques. Provides career and educational planning. Satisfies the 0.5 unit counseling requirement for graduation from Bakersfield College. Field trips required.
Hours: 36 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FDSV B51 Food and Nutrition Orientation
0.5 unit
Recommended: Reading - one level prior to transfer.
Description: Provides a basic understanding of professional standards used in food service industry as well as orientation to the kitchen equipment, storage practices and the use of a recipe. Covers skills development for organizational skills, time management and goal setting. Preparations for the construction of student projects and portfolios are included in this course.
Hours: 9 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FDSV B52 Foodservice Sanitation and Safety
2 units
Recommended: Reading - one level prior to transfer.
Description: Basic principles of sanitation and safety standards set by regulatory agencies. Causes and prevention of food-borne illnesses. Application of food safety production and service, personal hygiene and facilities maintenance procedures. Food safety regulations and inspection including HACCP system are emphasized. Course meets minimum food safety certification requirements of California legislation effective January 1, 2000. Upon passing the required exam, course certificate of completion is awarded from the Education Foundation of the National Restaurant Association. Field trips may be required.
Hours: 36 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FDSV B55A Food Service Production Theory I
2.5 units
Description: Basic principles and techniques involved in commercial and non-commercial food production. Emphasizes recipe standardization, equipment and sanitation/safety principles.

FDSV B55B Food Service Production Theory II
2.5 units
Recommended: FDSV B55a or FDSV B55b with a grade of ‘C’ or better (may be taken concurrently).
Description: Basic principles and techniques involved in commercial and non-commercial food production. Emphasizes nutritional standards, equipment use and sanitation/safety principles. Cookery principles relating to poultry, fish and shellfish, sandwiches, hors d’oeuvres, breakfast cookery, vegetarian cookery, food presentation and garde manger. Field trips may be required.
Hours: 45 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FDSV B55C Food Service Production Lab I
2 units
Prerequisites: Completion of FDSV B55a or FDSV B55b with a grade of ‘C’ or better (may be taken concurrently).
Recommended: Reading - one level prior to transfer.
Description: Practical experiences in the preparation of foods typical to a dinner house/a la carte menu in the campus restaurant. Work station rotations in kitchen and dining room with emphasis on professional skill development, work ethics and presentation skills for plate service. Uniforms are required. Field trips may be required.
Hours: 108 laboratory
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FDSV B55D Food Service Production Lab II
2 units
Prerequisites: FDSV B55a or FDSV B55b with a grade of ‘C’ or better (may be taken concurrently).
Recommended: Reading - one level prior to transfer.
Description: Practical experiences in the preparation of buffets and garde manger in the campus restaurant. Work station rotations in the kitchen and dining room with emphasis on professional skill development, work ethics and presentation skills for buffet service. Uniforms are required. Field trips may be required.
Hours: 108 laboratory
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

FDSV B55E Advanced Food Service Practicum
3 units
Prerequisites: FDSV B52, B55a, B55b, B55c and B59 with minimum grades of C.
Recommended: NUTR B10. Reading - one level prior to transfer.
Description: Practicum application of acquired knowledge, skills, work ethics, and technology in developing a broader understanding of production, service and management function in on-campus and off-campus foodservice operations. Uniforms are required. Transportation provided by the student. Practicum sites must be approved by their instructor.
Hours: 18 lecture, 108 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.
FDSV B55 F Fundamentals of Baking

2 units
Recommended: Reading - one level prior to transfer.
Description: Advanced baking experience in the production of cakes, basic creams, icings, dessert sauces, doughnuts, crepes, tarts, puff pastry, éclairs, meringues, petit fours and specialty cookies. Decorative work and display pieces, product presentation and marketing techniques demonstrated.
Hours: 108 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

FDSV B55 I Food and Nutrition Internship

1 unit
Prerequisites: FDSV B52, B55a, B55b, B55c, B55d, and B59 with minimum grades of ‘C’ or better.
Recommended: NUTR B10. Reading - one level prior to transfer.
Description: Advanced practicum application of required knowledge, skills, work ethics and technology in developing a broader understanding of the food service industry. Off campus work internship under supervision of a food service professional. Practicum sites must be approved by the instructor. Course emphasizes integrating theory with practical food service applications. Participation criteria may vary among the participating food service professional organizations. Uniform is required. Transportation provided by the student.
Hours: 18 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

FDSV B59 Food Service Production Management

3 units
Prerequisites: FDSV B50, FDSV B52, and FDSV B55a, or FDSV B55b all with grades of ‘C’ or better, or may be taken concurrently.
Recommended: Reading - one level prior to transfer.
Description: Emphasizes basic knowledge of the first-line hospitality supervisor’s roles and responsibilities. Principles of good people management are presented in how they apply to the job. Food purchasing activities for foodservice operations and product information from a management’s perspective are discussed in relation to supervisory roles. Basic principles of cost control are discussed along with applications of basic accounting procedures to cost controls and profitability. Field trips may be required.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

FDSV B64 A Dietetic Service Supervisor Practicum

2 units
Prerequisites: NUTR B10 and NUTR B50 with grades of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: Role and responsibilities of the Dietetic Service Supervisor in health care and community foodservice operations. Application of standards, principles and techniques of basic nutrition, modified diets, nutrition education, data gathering and patient/staff communications. Course provides 120 hours directed unpaid clinical work experience in an approved health care facility. (50 hours may be in a facility in which the student is employed). Field trips may be required.
Hours: 120 directed field work experience
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

Forestry Courses

FORE B1 Introduction to Forestry

3 units
Recommended: Reading - one level prior to transfer.
Description: The ecological, economic and sociological basis of forest management interrelated with the management of other resources. Topics include a history of forestry in America, the economics of forestry, forestry and national planning and forest uses.
Hours: 54 lecture
CCS: Occupational Education
Transferable: UC, CSU and private colleges

FORE B2 Natural Resources

3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Survey of our natural resources and the conservation of those uncaptured natural stores which are useful to humankind. Resources covered are water, soil, air, forests, grasslands, wildlife, oceans, minerals and energy. Ecology, waste management and human resources are also covered.
Hours: 54 lecture
CCS: Occupational Education
Transferable: UC, CSU and private colleges; CSU GE E; BC GE B.1

FORE B3 Wildlife Management

3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: The practice of wildlife management. Foundations of wildlife production. The identification, life histories and ecology of selected important wildlife species - mammals including fur bearers, water fowl and fish.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

FORE B4 Wildlife Law Enforcement

3 units
Recommended: Reading - one level prior to transfer.
Description: A brief history of the development of wildlife law enforcement. State functions and jurisdiction; federal jurisdiction, federal wildlife laws, federal versus state jurisdiction; rights of the private citizen. Types of violations and the role of the law enforcement officer. The function of the officer, including arrests, preparation of evidence, interviewing and court appearances.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

FORE B5 Identification of California Wildlife

3 units
Description: A survey of game birds, fish, mammals of California and the Western United States. Characteristics of game animals and protected species. Practices identifying animals in their environment. Emphasizes protecting species which are in danger of extinction.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges
**FORE B6 Forestry Skills**

3 units  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Survey of the forestry, wildlife and natural resources management industries. Careers, job requirements, terminology, employment opportunities and the identification and/or use of selected tools and equipment. Field trips required. Transfers as an Agriculture elective.  
**Hours:** 18 lecture, 108 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**FORE B7 Wildland Fire Management**

3 units  
**Description:** Covers the physical theories of wildland fire, the methodology of wildland fire suppression, pre-suppression, and post-fire suppression and equipment. The practice of fire ecology and the use of prescribed control burns to maintain and improve our nation’s forests and rangelands. Field trips may be required.  
**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

---

**Geography Courses**

**GEOG B1 Physical Elements of Geography**

3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** This course is the study of the earth as a physical system and its processes. Topics of inquiry are derived from the earth’s four main spheres, the atmosphere, hydrosphere, lithosphere, and biosphere. They include weather and climate, earth-sun relationships, geology, and landforms. Geographic techniques such as mapping, Geographic Information Systems (GIS) and Remote Sensing are also discussed.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

**GEOG B1L Physical Geography Laboratory**

1 unit  
**Prerequisites:** GEOG B1 with a grade of ‘C’ or better; may be taken concurrently.  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Laboratory portion of Physical Geography is designed to demonstrate how material presented in Geography B1 can be applied in a working environment. Assignments are designed to help students understand and apply the concepts learned in the lecture to real world problems. Exercises include using an atlas, coordinate systems, earth-sun relationships, weather and climate analysis, landform development, and topographic map interpretation.  
**Hours:** 54 laboratory  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; IGETC 5.C; CSU GE B.3; BC GE B.1

**GEOG B2 Human Geography**

3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** This course is designed to demonstrate how different human populations interact culturally with their environment. Special emphasis will be placed on concepts such as population, movement, human-earth relationships, languages, religion, economics and politics.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.5; BC GE D.2

**GEOG B3 Introduction to Weather and Climate**

3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** This course is an introduction to the earth’s atmosphere, weather and climate. Topics to be discussed include solar and terrestrial energy, atmospheric composition, earth-sun relationships, temperature changes, wind and pressure systems, destructive weather patterns, frontal systems, and climate.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

**GEOG B5 World Regional Geography**

3 units  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Survey of the world’s cultural regions and nations as interpreted by geographers, including physical, cultural, and economic features. Emphasis on spatial and historical influences on population growth, transportation networks, and natural environments. Identify important and significant features within regions.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**C-ID:** GEOG 125  
**Transferable:** UC, CSU and private colleges

---

**Geology Courses**

**GEOL B10 Introduction to Geology**

3 units  
**Prerequisites:** Reading - one level prior to transfer.  
**Description:** Introduction to the principles of geology with emphasis on the structure and origin of the earth, its present and past landscapes and the processes at work changing its surface. Students requiring laboratory experience should enroll in GEOL B10L concurrently with GEOL B10.  
**Note:** At least one Saturday field trip or equivalent required. Not open to students who have successfully completed GEOL B1A.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**C-ID:** GEOL 100  
**Transferable:** UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

**GEOL B10L Introduction to Geology Laboratory**

1 unit  
**Prerequisites:** GEOL B10 with a grade of ‘C’ or better; may be taken concurrently.  
**Description:** Exercises planned to accompany the lectures of GEOL B10. Identification of rocks and minerals, topographic and geologic map exercises demonstrating the work of water, wind, ice
and gravity and effects of volcanism and earthquakes. Field trips required.

**Hours:** 54 laboratory
**CCS:** Liberal Arts/Science
**C-ID:** GEOL 200L

**Transferable:** UC, CSU and private colleges; IGETC 5.C; CSU GE B.3; BC GE B.1

### GEOL B11 Historical Geology

**3 units**

**Prerequisites:** GEOL B11 with a grade of ‘C’ or better; may be taken concurrently.

**Description:** An introduction to the formation and development through time of the solid Earth, atmosphere and biosphere. Covers past movements and locations of the continents and interpretation of past environments as recorded in rock and fossil records, including the dinosaurs. Students requiring laboratory experience should enroll in GEOL B11L concurrently with GEOL B11. At least one Saturday field trip or equivalent required.

**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**C-ID:** GEOL 110
**Transferable:** UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

### GEOL B11L Historical Geology Laboratory

**1 unit**

**Prerequisites:** GEOL B11 with a grade of ‘C’ or better; may be taken concurrently.

**Description:** Exercises planned to accompany the lectures of GEOL B11. Identification and description of sedimentary rocks and fossils. Stratigraphic section, relative dating, and geologic map exercises. Introduction to classification using cladistics.

**Hours:** 54 laboratory
**CCS:** Liberal Arts/Science
**C-ID:** GEOL 110L
**Transferable:** UC, CSU and private colleges; IGETC 5.C; CSU GE B.3; BC GE B.1

### GEOL B12 Geology of California

**3 units**

**Prerequisites:** GEOL B1a, or GEOL B10, ERSC B10, with grades of ‘C’ or better. Reading - one level prior to transfer.

**Description:** An elementary course dealing with the geologic history, structure, topography and mineral resources of California and adjoining areas. One Saturday field trip or equivalent may also be required.

**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**C-ID:** GEOL 200
**Transferable:** UC, CSU and private colleges

### GEOL B21 Topics in Geology

**1-3 units**

**Recommended:** Reading - one level prior to transfer.

**Description:** Introductory study of the various geological processes that shape the Earth. For each class offering students will focus on one particular area of geology, such as structures and earthquakes, rocks and minerals, geology of Sequoia National Park, geology of Joshua Tree National Park, geology of Death Valley, geology of Yosemite National Park, or other similar subjects. Students will learn about the processes and forces that created these areas and be able to apply their knowledge and understanding to other geological formations around the world. Field trips required.

**Hours:** 18 lecture hours for each unit (18-54)

**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4.F; CSU GE C.2; CSU GE D.6; BC GE D.2

**Transferable:** UC, CSU and private colleges

### GEOL B35A Rocks and Minerals

**1 unit**

**Recommended:** Reading - one level prior to transfer.

**Description:** A study of rocks and minerals. Students will learn to identify the major rock-forming minerals and to recognize their relationships as components of the various classes of rocks. From the identification of rocks, recognition of the environmental conditions of deposition will follow. Field work will allow the examination of the field relationships of various rocks and the beginning of a collection of rock and mineral specimens. Field trip required.

**Hours:** 18 lecture
**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges

### GEOL B35B Geology of Kern County

**1 unit**

**Recommended:** Reading - one level prior to transfer.

**Description:** A study of the geologic history and landforms of Kern County, and the geologic forces and processes that created them. As part of this course, students will learn about many of the different rocks and minerals of Kern County, tectonic activity and mountain building, volcanic activity, earthquakes and weathering. From materials presented, students will be able to understand the geologic forces that shaped Kern County. A field trip is required that will permit the examination and recognition of different geological environments.

**Hours:** 18 lecture

**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges

### Health Education Courses

### HLED B1 Principles of Health Education

**3 units**

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** A survey of Health as expressed through the interdependence of the intellectual, emotional, environmental, physical, social and spiritual dimensions of wellness.

**Hours:** 54 lecture

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges

### History Courses

### HIST B1 World History from the Origins of Civilization to 1600

**3 units**

**Recommended:** Reading and Writing - one level prior to transfer.

**Description:** Survey of the historical development of different world societies’ major economic, intellectual, political, religious, cultural and social ideas and institutions from Paleolithic humanity to the Early Modern Era.

**Hours:** 54 lecture

**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4.F; CSU GE C.2; CSU GE D.6; BC GE D.2

**Transferable:** UC, CSU and private colleges
HIST B2 History of the World (Since 1650)
3 units
**Recommended:** Reading and Writing - one level prior to transfer.
**Description:** An introduction to the history and culture of the world since 1650. Emphasis is on the impact of European and American influence on the development of world systems and their impact on modern societies. Course will examine the different economic, intellectual, political, religious, cultural, and social ideas and institutions of the different ethnic and national groups of Europe as they developed from 1650 to present. Course includes critical thinking and evaluation skills development in analysis and interpretation of historical evidence.
**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.6; BC GE D.2

HIST B4A European Civilization
3 units
**Recommended:** Reading and Writing - one level prior to transfer.
**Description:** Survey of history of European civilization from its origin to 1650. Course will examine the different economic, intellectual, political, religious, cultural and social ideas and institutions of the different ethnic and national groups of Europe as they developed from its origin to 1650. Course includes critical thinking and evaluation skills development in analysis and interpretation of historical evidence.
**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.6; BC GE D.2

HIST B4B European Civilization
3 units
**Recommended:** Reading and Writing - one level prior to transfer.
**Description:** A survey history of European civilization from its origin to 1650. Course will examine the different economic, intellectual, political, religious, cultural and social ideas and institutions of the different ethnic and national groups of Europe as they developed from 1600 to the present. Course includes critical thinking and evaluation skills development in analysis and interpretation of historical evidence.
**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**C-ID:** HIST 180
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4.F; CSU GE D.6; BC GE D.2

HIST B15 Civilizations of the Middle East
3 units
**Recommended:** Reading - one level prior to transfer.
**Description:** An introduction to the history and culture of the Middle East from the rise of Islam in the 7th century to the present. Includes the study of government, family, social classes, religion, politics, and conflict in the region.
**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4.F; CSU GE C.2; CSU GE D.6; BC GE D.2

HIST B17A History of the United States Since 1870
3 units
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.
**Description:** Survey of the political, economic, and cultural history of the United States from Reconstruction to the present. Includes the study of government, family, social classes, religion, politics, and conflict in the region.
**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** HIST 130
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.6; BC GE D.2; BC GE D.3

HIST B17B History of the United States Since 1870
3 units
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.
**Description:** Survey of the political, economic, and cultural history of the United States from Reconstruction to the present. Includes the study of government, family, social classes, religion, politics, and conflict in the region.
**Hours:** 54 lecture
**CCS:** Credit Course
**Note:** HIST B17A is not a prerequisite to HIST B17B.
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.6; BC GE D.2; BC GE D.3

HIST B18 History of California
3 units
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.
**Description:** The social, economic, and political development of California from its pre-European past to its post-industrial present. Examines the historical uniqueness of California's environment, population, institutions, and economy. Emphasis placed on the influence of American political thought and institutions in the historical evolution of California's state and local governments. Partially satisfies the requirements in U.S. Constitution, American history and institutions.
**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**Transferable:** CSU and private colleges; IGETC 3.B; IGETC 4.F; CSU GE C.2; CSU GE D.6; BC GE D.2; BC GE D.3

HIST B20A African American History of the United States
3 units
**Recommended:** ENGL B50. Reading - one level prior to transfer.
**Description:** Survey of the political, economic, and cultural history of the United States from earliest colonial times to Reconstruction with emphasis on the role and contributions of African Americans. Includes a study of the U.S. Constitution and federal government. Partially satisfies the requirements in U.S. Constitution, American history and institutions. Meets the Multicultural Requirement.
**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.3; CSU GE D.6; BC GE D.2; BC GE D.3

HIST B20B African American History of the United States
3 units
**Recommended:** Reading - one level below transfer. Writing - one level below transfer.
**Description:** Survey of the political, economic, and cultural history of the United States from reconstruction to the present.
with emphasis on the role and contributions of African Americans. Includes a study of the state and local government of California. Satisfies the requirements in U.S. Constitution, American history and institutions.

**HIST B25 Introduction to Women in American History**  
3 units  
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Survey of the history of women in America from the pre-colonial period to the present. Emphasis is on the social, economic, political, and multicultural facets of women's history in the US and includes both the commonalities and diversities of women's roles, the use of gender as an analytic category, and the specific significance of women in the evolution of the major contours of US history.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.3; CSU GE D.6; BC GE D.2

**HIST B30A Early Chicano History**  
3 units  
Recommended: Reading - one level prior to transfer.  
**Description:** A survey of the history of the peoples of the Mexican-American borderlands, from Pre-Columbian times until 1848. Examines the social, economic, and political evolution of the region with emphasis upon the inter-relationships between the histories of the United States and Mexico. Partially satisfies the requirements in U.S. Constitution, American history and institutions. Not open to students who have successfully completed CHST B30A.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.3; CSU GE D.6; BC GE D.2

**HIST B30B History of Chicanos in the Southwest**  
3 units  
Recommended: Reading - one level prior to transfer. Writing - two levels prior to transfer.  
**Description:** Survey of the Chicano and the U.S. with an emphasis on the developments in California and the Southwest from 1848 to present: relationship of regions within the U.S. area, roles of major ethnic groups, continuity of American experience, derivation from other cultures, aftermath of the U.S. Mexican War; interrelationship of Mexican and U.S. history between 1860 and 1910, effects of Mexican Revolution on the 20th century experience of Chicanos, California State Constitution. Partially satisfies requirements in U.S. Constitution, American history and institutions.  
**Note:** Not open to students who have taken the equivalent course, CHST B30B.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.3; CSU GE D.6; BC GE D.2

**HIST B33 Latin American History**  
3 units  
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Historical survey of the social, economic and political development of Latin America, including the formation of pre-Columbian civilization through establishments of the Spanish and Portuguese colonial systems to nation building of the modern era. Examines the impact of the United States' foreign policy on the development of Latin America.  
**Note:** Not open to students who have completed CHST B33.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; CSU GE D.3; CSU GE D.6; BC GE D.2

**HIST B36 History of Native American Indians**  
3 units  
Recommended: ENGL B50/ENSL B50/EMLS B50 or reading - one level prior to transfer.  
**Description:** Survey of the origins, traditions, lifeway and belief systems of various Native American communities. Emphasis on socio-political encounters with Anglo American expansion and indigenous resilience. Partially satisfies the requirements in U.S. Constitution, American history and institutions.  
**Note:** Offered only occasionally.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.3; CSU GE D.6; BC GE D.2; BC GE D.3

**Human Services Courses**

**HMSV B5 Human Services Internship**  
2 units  
**Prerequisites:** HMSV B40 with a grade of ‘C’ or better. Student must attend a mandatory orientation and obtain the signature of the Human Services Program Coordinator before enrolling in HMSV B5.  
**Recommended:** Reading - one level prior to transfer. Reading - one level prior to transfer.  
**Description:** Study of human services organizations; work internship under supervision in a human services field; emphasizes integrating theory with practical application; participation criteria may vary among the participating human services agencies. Signature of the Human Services Program Coordinator is required to register for this class. Eligible interns may take two units per semester until a total of 4 units (216 hours of field work) has been completed.  
**Repeat:** 1  
**Hours:** 18 lecture, 108 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**HMSV B40 Introduction to Human Services**  
3 units  
**Prerequisites:** ENGL B50/ENSL B50/EMLS B50 or reading - one level prior to transfer. Reading - one level prior to transfer.  
**Description:** Survey of helping institutions and social issues concerning human services, including target populations; survey of human services careers; historical, ethical, and theoretical perspectives of social and public policy; current controversies concerning human services; institutional and community-based services; diversity; models of service delivery; helping process techniques and skills.  
**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges
Industrial Drawing Courses

INDR B12 Introduction to Drafting and CAD
2 units
**Description:** Introductory course dealing with conventional drafting methods and a computer aided drafting and design (CAD) program to obtain graphic solutions, design modifications, and delineations for industrial, architectural, and engineering drawings. Emphasizes basic drafting and CAD skills.
**Note:** Not open to students who have taken INDR B10 and INDR B11.
**Hours:** 18 lecture, 54 laboratory
**CCS:** Credit Course
**Transferable:** CSU and private colleges

INDR B20A Computer Aided Drafting and Design (CAD)
3 units
**Prerequisites:** INDR B10 and INDR B11 or INDR B12 with grade of 'C' or better; or equivalent experience to be evaluated by the instructor.
**Description:** An intensive course utilizing a computer aided design (CAD) program to obtain graphic solutions, design refinements, modifications, and delineations in both 2D and 3D for industrial, architectural, and engineering drawings. Emphasizes technology skills that are necessary to function as an entry-level CAD operator.
**Materials Fee:** $3.00
**Hours:** 27 lecture, 81 laboratory
**CCS:** Occupational Education
**Transferable:** UC, CSU and private colleges

INDR B20B Computer Aided Drafting and Design (CAD)
3 units
**Prerequisites:** INDR B20a with a grade of 'C' or better.
**Description:** Continuation of the sequence utilizing a computer aided drafting (CAD) program to obtain graphic solutions, design refinements, modifications, and delineations in both 2D and 3D for industrial, architectural, and engineering drawings. Emphasizes technology skills that are necessary to function as an entry-level CAD operator.
**Materials Fee:** $3.00
**Hours:** 27 lecture, 81 laboratory
**CCS:** Occupational Education
**Transferable:** CSU and private colleges

INDR B40 Parametric Modeling Fundamentals
3 units
**Description:** This class will introduce basic and advanced parametric modeling techniques. Three-dimensional models of mechanical objects will be used to generate two-dimensional drawings (including views, sections, details, dimensions, and assembly drawings). Emphasis on design and digital prototyping will run throughout the course. The course is project-based and will include the use of a 3D printer and the creation of animations to communicate design concepts.
**Hours:** 27 lecture, 81 laboratory
**CCS:** Occupational Education
**Transferable:** CSU and private colleges, Associate Degree applicable.

INDR B42 Introduction to Solidworks
2 units
**Description:** A foundational course in the use of Solidworks mechanical design software. Students will utilize 3D solid modeling techniques to generate and edit parts, assemblies, and detail drawings.
**Hours:** 27 lecture, 27 laboratory

Industrial Technology Courses

INDT B5 Architectural Woodworking and Design
1 unit
**Prerequisites:** ARCH B6 (may be concurrently enrolled).
**Description:** Students will complete an architectural woodworking project of their own design, including conceptual drawings of the design. Emphasis is on woodworking lab safety. Covers the incorporation of woodworking joinery.
**Hours:** 9 lecture, 27 laboratory
**CCS:** Occupational Education
**Transferable:** CSU and private colleges

INDT B10 Occupational Readiness
3 units
**Description:** Orientation to Bakersfield College and post-secondary education in California. Survey of various fields of industrial technology, career opportunities and requirements, development of a personal education plan. Satisfies the 0.5 unit educational planning
INDT B271 Special Problems in Welding
2 units
Prerequisites: WELD B1a and WELD B1B and WELD B53a and WELD B74A and WELD B74B with grades of 'C' or better.
Description: Provides individual students the opportunity to explore various segments of welding such as various welding processes and codes, fabrication techniques, layout, and testing and preparation for certification. Development and implementation of meaningful, self-directed studies in areas where student desires specific technical and related skill development necessary for enrichment or employment.
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

INDT B272 Special Problems in Electronics
2-3 units
Prerequisites: Completion of minimum of 9 units of electronics courses with a grade of 'C' or equivalent experience or evaluation by instructor. Completed Petition for Individual Study form.
Description: Provides individual students the opportunity to explore various segments of electronics. Development and implementation of meaningful, self-directed studies in areas where student desires specific technical and related skills development necessary for enrichment or employment.
Hours: 18 lecture hours for each unit (36-54)
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

INDT B273 Special Problems in Machine Tool Metal Working
2-3 units
Prerequisites: Completion of minimum of 6 units of machine tool courses with a grade of 'C' or equivalent experience or evaluation by instructor. Completed Petition for Individual Study form.
Description: Provides individual students the opportunity to explore various segments of machine tool metal working. Development and implementation of meaningful, self-directed studies in areas where student desires specific technical and related skills development necessary for enrichment or employment.
Hours: 18 laboratory hours for each unit (36-54)
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

INDT B274 Special Problems in Woodworking
2-3 units
Recommended: Concurrent enrollment in a woodworking technology related course or previous woodworking and/or cabinetmaking experience.
Description: Course is intended to provide students the ability to, on an independent study basis, the opportunity to explore various segments of the woodworking and cabinetmaking industry. The primary intent of this course is to develop and implement meaningful, self-directed studies in areas where the student desires specific technical and/or skill development.
Hours: 54 laboratory hours for each unit (108 – 162)
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

INDT B275 Special Problems in Automotive Technology
2 units
Description: Provides the individual students the opportunity to explore various segments of automotive. Development and implementation of meaningful, self-directed studies in areas where the student desires specific technical and related skill development necessary for enrichment or employment.
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

Japanese Courses

JAPN B1 Elementary Japanese I
4 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Introduction to Japanese language and culture. Special emphasis is on speaking and understanding Japanese along with mastering elementary grammar and composition while learning the characters of Japanese alphabets.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 6.A; CSU GE C.2; BC GE C.2

JAPN B2 Elementary Japanese II
4 units
Prerequisites: JAPN B1 with a grade of 'C' or better.
Description: Continuing of elementary course introducing Japanese language and culture. Special emphasis on speaking and understanding Japanese along with mastering elementary grammar and composition while learning the characters of Japanese alphabets. Requires practice with audiotape/CD program outside of class.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

JAPN B3 Intermediate Japanese
4 units
Prerequisites: JAPN B2 with a grade of 'C' or better.
Description: Course provides the students with further knowledge and communication skills in Japanese in all 4 areas: speaking, listening, reading and writing. In addition to the polite/distal style, the course further develops oral communication skills in other speech styles such as direct style and honorific style. Students should be able to read and write about 200 kanji (Chinese characters) in this course.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

Journalism Courses

JRNL B1 Media and Society
3 units
Recommended: Writing - one level prior to transfer. Reading - one level prior to transfer.
Description: A study and evaluation of mass media and how it shapes societies and cultures. The focus provides the media consumer with a historical and a theoretical perspective on newspapers, magazines, books, Internet, television, radio, public
relations, advertising, and motion pictures. Course content discusses media law and ethics, controversial topics as well as topics of current interest. Field trips required.

Hours: 54 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges; IGETC 4.G; CSU GE D.8; BC GE D.2

JRNL B2 Beginning Reporting

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Introduction to journalism through the study of practical application of various techniques. Concentration on recognizing story ideas, gathering information from sources, news judgment, ethics, proper style and writing. Emphasizes news, features, sports and opinion writing. Prepares students for possible role on a student newspaper.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

JRNL B4 Introduction to Public Relations

Recommended: JRNL B2 with a grade of ‘C’ or better. Writing - one level prior to transfer. Reading - one level prior to transfer.

Description: An introduction to public relations in today’s society, including history of public relations and study of definitions, processes and audiences of businesses as well as nonprofit organizations. Includes how to prepare, write and submit news releases to electronic and print media. Field trips required.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

JRNL B15 Press Photography

Recommended: Writing - one level prior to transfer. Reading - one level prior to transfer.

Important: Digital camera required.

Description: Study and application of digital photography as applied to journalism. Covers technical aspects of cameras, use of Photoshop, how to photograph assignments in the field and choosing photographs for print. Entry-level photojournalism course prepares students for enrollment in student newspaper.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

C-ID: JOUR 160

Transferable: CSU and private colleges

JRNL B16 Multimedia Reporting

Recommended: JRNL B15 with a grade of ‘C’ or better.

Description: Study and application of photography applied to emerging changes in the journalism landscape, specifically visual and audio communication through new media. Emphasizes the combined use of still cameras, audio recording equipment and video cameras to produce in-depth, content-rich reporting for journalism Web sites.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

C-ID: JOUR 120

Transferable: CSU and private colleges

JRNL B26 Newspaper Production/Editors

Recommended: JRNL B27A

Description: Designed for editors and second-semester students of the online and print editions of The Renegade Rip, BC’s award winning student-produced college newspaper. Teaches news content analysis, planning and evaluation using critical-thinking skills, story organization, intensive page design, planning and developing style and design of stories, photography, graphics, and art. Includes numerous discussions of ethics, collaboration with staff, and learning editorial leadership, with editors making all policy and content decisions for student-produced print and online media.

Hours: 18 lecture, 162 laboratory

CCS: Occupational Education

C-ID: JOUR 131

Transferable: CSU and private colleges

JRNL B27A Newspaper Production/Reporters

Recommended: JRNL B2 with a grade of ‘C’ or better. Writing - one level prior to transfer. Reading - one level prior to transfer.

Description: Production practicum for the print and online editions of The Renegade Rip, Bakersfield College’s award-winning student-produced newspaper. Offers experience in interviewing, research, news, feature, sports, and opinion reporting, design and production of editorial cartoons, headline writing, copyediting, proofreading, introduction to page design, graphics, and computer use. Students wishing to report stories, create editorial cartoons, or create graphics for the college newspaper should be enrolled.

Hours: 18 lecture, 108 laboratory

CCS: Occupational Education

C-ID: JOUR 130

Transferable: CSU and private colleges

JRNL B27E Newspaper Production/Photographers

Recommended: JRNL B15 with a grade of ‘C’ or better. Writing - one level prior to transfer. Reading - one level prior to transfer.

Description: Production practicum for the print and online editions of The Renegade Rip, Bakersfield College’s award-winning student-produced college newspaper. This course offers experience in how to take color news, feature, and sports photographs, black and white photo technology, photo editing and sizing photo essay design, photo polls, environmental portraits and photo illustrations. Students wishing to take photos for the college newspaper using digital should be enrolled.

Hours: 18 lecture, 108 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

Library Courses

LIBR B1 Introduction to Library Research

Recommended: Writing - one level prior to transfer. Reading - one level prior to transfer.

Description: Emphasizes developing research skills in order to locate and evaluate relevant and appropriate sources for college-level papers, speeches and other projects. Introduces students to advanced research techniques through the use of electronic databases, print resources, and the web, as well as the ethical use of information. Prepares students for research projects in English B50, English B1A, and other courses with research components.

Hours: 18 lecture
LIBR B55 Information Competency Workshops  
0 unit  
**Description:** Variety of hour-long workshops that assist students in gaining proficiency in all aspects of information competency. Workshop topics include research strategies, searching the online catalog for books, finding periodical articles online, using advanced techniques with Internet searching, evaluating Internet resources, evaluating print resources, and examining ethics in research (plagiarism, fair use, and copyright).

**Hours:** 1 lecture  
**Repeat:** unlimited  
**CCS:** non-enhanced funding  
**Transferable:** Not degree applicable. Not transferable.

### Manufacturing/Machine Technology Courses

**MFGT B1AB Machine Tool Processes**  
3 units  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Machine tool technology including the use of precision measuring instruments, drilling machines, saws, lathes, and vertical milling machines.  
**Note:** Elective credit only.  
**Hours:** 27 lecture, 81 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**MFGT B2 CNC Lathe Programming and Operation**  
3 units  
**Recommended:** MFGT B1ab with a grade of ‘C’ or better, or evaluation by instructor of students machining skills. Reading - one level prior to transfer.  
**Description:** Set-up, operation and programming of a computer numerical control lathe.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**MFGT B3 CNC Mill Programming**  
3 units  
**Recommended:** MFGT B1ab with a grade of ‘C’ or better. Reading - one level prior to transfer.  
**Description:** Programming, set-up, and operation of computer numerical control milling machines. G-code programming is emphasized along with the use of CAD/CAM software.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

### Mathematics Courses

**MATH B1A Precalculus I**  
4 units  
**Prerequisites:** MATH BD/B70 with a grade of ‘C’ of better.  
**Description:** Preparation for calculus; the algebraic and graphical analysis of polynomial, rational, logarithmic and exponential functions and their applications; systems of linear and nonlinear equations, graphing inequalities, absolute value, and complex numbers.

**MATH B1B Precalculus II**  
4 units  
**Prerequisites:** MATH B1a with a grade of ‘C’ or better.  
**Description:** Definitions of trigonometric functions, graphs of trigonometric functions, use of trigonometric functions in problem solving, derivation of trigonometric identities, verification of trigonometric identities, solution of conditional trigonometric equations, study of inverse trigonometric functions, trigonometric form of complex numbers and DeMoivre’s Theorem; analytic geometry, mathematical induction, and introduction to sequences and series.

**MATH B2 Basic Functions and Calculus for Business**  
4 units  
**Prerequisites:** MATH B1A with a grade of ‘C’ or better or placement by testing.  
**Description:** Modern concepts in mathematics emphasizing applications to business. Functions and the basic concepts of differential calculus with introductions to integral calculus and multivariable calculus.

**MATH B4A Mathematics for Elementary School Teaching**  
4 units  
**Prerequisites:** MATH BD or MATH B70 with a grade of ‘C’ or better or Placement By Testing  
**Description:** Designed for prospective elementary school teachers. Development of real numbers including integers, rational and irrational numbers, computation, prime numbers and factorizations, and problem-solving strategies.

**MATH B6A Analytic Geometry/Calculus I**  
4 units  
**Prerequisites:** MATH B1B or equivalent with a grade of ‘C’ or better.  
**Description:** Transcendental functions, polar coordinates, sequences, infinite series and methods of integration. Further exposure to techniques and applications of differential and integral calculus.

**MATH B6B Analytic Geometry/Calculus II**  
4 units  
**Prerequisites:** MATH B6A with a grade of ‘C’ or better.
**MATH B22 Elementary Probability and Statistics**

4 units  
**Prerequisites:** Mathematics - one level prior to transfer  
**Description:** Tabular, graphical, and numerical methods of summarizing data, finite probability, discrete and continuous random variables, binomial probability distribution, normal probability distribution, sampling distributions, point and interval estimation, one and two sample hypothesis testing procedures, analysis of variance, chi-square analysis, linear regression and correlation, and if time allows, nonparametric methods.  
**Hours:** 72 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; IGETC 2; CSU GE B.4; BC GE B.2  

**MATH B23 Finite Mathematics**

3 units  
**Prerequisites:** Math BD/B70 with a grade of ‘C’ or better or appropriate placement score.  
**Description:** Solving equations and inequalities in one variable, relations and functions, matrices, linear inequalities in two variables, linear programming, mathematics of finance including simple and compound interest, annuities, sets and counting, and Venn Diagrams.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; IGETC 2A; CSU GE B.4; BC GE B.2  

**MATH B50 Modern College Arithmetic and Pre-Algebra**

4 units  
**Prerequisites:** Mathematics - four levels prior to transfer.  
**Description:** A general review of basic arithmetic including the fundamental operations of addition, subtraction, multiplication and division of whole numbers, fractions and decimals. Emphasis is placed on real life applications, including percents, ratios, proportions, exponents, averages, estimation, graphs and measurement. The introduction to algebra includes operations with signed numbers and solving simple equations.  
**Hours:** 72 lecture  
**CCS:** Credit Course  
**Transferable:** Not degree applicable. Not transferable.  

**MATH B60 Beginning Algebra**

5 units  
**Prerequisites:** MATH B50 or equivalent pre-algebra course with a grade of ‘C’ or better or mathematics - two levels prior to transfer.  
**Description:** Fundamental concepts and mathematical processes first degree equations, polynomials, special products and factoring, rational expressions and equations, ratios, proportions, exponents, graphs, simultaneous linear equations.  
**Hours:** 90 lecture  
**CCS:** Pre-collegiate basic skills  
**Transferable:** Not degree applicable. Not transferable.  

**MATH B70 Intermediate Algebra**

5 units  
**Prerequisites:** MATH B60 or equivalent course with a grade of ‘C’ or better or mathematics - one level prior to transfer.  
**Description:** Topics for the course are functions and operations on functions; system of linear equations, linear and absolute value inequalities; linear; absolute value, and quadratic equations; radicals and operations with radicals; equations involving radicals, exponential, and logarithmic equations; and conic sections.  
**Hours:** 90 lecture  
**Transferable:** Associate Degree only. Not transferable. BC GE B.2  

**Mechanized Agriculture**

**MCAG B2 Introduction to Mechanized Agriculture**

3 units  
**Description:** This course covers basic mechanical skills in woodworking, cold metal, electricity, plumbing, concrete, and project
construction skills as related to farm maintenance and repair. The use of hand and power tool skills as well as emphasis on safety practices for all mechanical areas are covered. A laboratory class is required.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges

### MCAG B3 Small Gas Engines  
**3 units**  
**Description:** This is a complete introductory course in the operation, construction, maintenance, repair, and adjustments of two-cycle and four-cycle engines. It is designed for persons without prior experience in small engines. Theory and practical work, including safety and the care and use of specialized tools used in small engine repair and maintenance, will be covered. Examples of the types of engines to be used will include lawn mower; power saw, pump, conveyor, self-propelled small carts, and any other small engines. Laboratory required.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges

### MCAG B4 Agriculture Safety  
**3 units**  
**Description:** This course involves safety practices and principles, accident causation and prevention in the shop and in the field, as well as with tractors and machinery. Operation, service and normal safety practices common to farming will be stressed, including welding, hand tools, and chemical applicators. Material Safety Data Sheets, Personal Protective Equipment and on-site Worker safety will be explored. Supervised field operation and field trips will be required. Laboratory required.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges

### MCAG B5 Agriculture Irrigation Technology  
**3 units**  
**Description:** An examination of agriculture irrigation systems, Irrigation and drainage problems relating to pumps, motors, sprinkler systems, structures, pipelines, ditches and wells; computation of costs and measurement of water; water law; basic principles of plant-soil-moisture relations, and water movement in soil. Field trips are required.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges

### MCAG B10 Farm Power Operation  
**3 units**  
**Description:** This course involves design principles, selection, maintenance, adjustment, and safe operation of wheel and track type tractors and commonly used equipment in agriculture and in the construction industry.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges

### MCAG B11 Farm Power Diesel Repair  
**4 units**  
**Recommended:** MCAG B3  
**Description:** This course explores the operation and repair of modern diesel engines. Principles and theories are studied by running, testing, diagnosing, disassembling and reassembling components, systems and engines.  
**Hours:** 36 lecture, 108 laboratory  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges

### Medical Science Courses

#### MEDS B35 Lifespan Development  
**3 units**  
**Recommended:** Reading - one level prior to transfer  
**Description:** Study of normal human growth and development in prenatal, childhood, adolescent, adult and old age periods. Offers a balanced study of basic theories, research, applications; principles of physiological, cognitive, and psychosocial development are discussed. Related observations are required. Health maintenance and safety issues for all age levels are incorporated. Concepts of death and dying are considered.  
**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges; CSU GE E; BC GE E

#### MEDS B52 Basic Life Support for Healthcare Providers  
**0.5 unit**  
**Description:** An initial and retraining course in Basic Life Support that provides basic knowledge and skills of Basic Life Support and AED use for victims of all ages. Skills learned will enable students to recognize emergencies and how to respond to them. At the end of the course, the successful student will qualify for an American Heart Association Healthcare Provider BLS card.  
**Materials Fee:** $12.00  
**Hours:** 9 lecture  
**Repeat:** legally mandated training  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

#### MEDS B60 Medical Terminology  
**3 units**  
**Description:** A study of basic medical terms related to the major body systems. Three units are required for radiologic technology and medical billing, and transcribers.  
**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

#### MEDS B66 Intravenous Therapy and Blood Withdrawal  
**2 units**  
**Prerequisites:** Enrollment in or completion of an Associate Degree or Vocational Nursing program.  
**Description:** This course introduces the principles of intravenous therapy and blood withdrawal. The course is designed to enable the Licensed Vocational Nurse to safely initiate and maintain intravenous therapy and to perform blood withdrawal in a clinical setting. This course is approved by the Board of Vocational Nurses and Psychiatric Technicians and enrollment in or completion of an Associate Degree or Vocational Nursing Program is required.  
**Hours:** 27 lecture, 27 laboratory  
**CCS:** Credit Course  
**Transferable:** Not transferable. Not degree applicable.

#### MEDS B68 Home Health Aide  
**1.5 units**  
**Prerequisites:** MEDS B69
Description: This course follows the California Department of Public Health (CDPH) guidelines and builds upon the foundation of the nurse assistant training. The course is designed to prepare students to work with clients in the home setting and includes a minimum of 20 hours in the clinical setting. Skills competencies will be assessed utilizing objective, measurable criteria. Upon completion of the course the student will be eligible for the State of California Home Health Aide certification.
Hours: 18 lecture, 27 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

Meds B69 Nurse Assistant

6 units
Prerequisites: Program requirements. See Allied Health Department for specifics.
Recommended: MEDS B60 with a grade of ‘C’ or better.
Description: Course focus is to prepare the nurse assistant for certification by the State of California as an entry-level worker on a health care team. The curriculum is structured to provide theory and practical application on skills needed to function as a nurse assistant. Correlated laboratory experiences are provided with emphasis on providing basic nurse assistant care to residents in a long term care setting. Concepts presented in MEDS B69 are applied in the laboratory and clinical setting. Formerly MEDS B67 and MEDS B67L.
Materials Fee: $72.00
Hours: 63 lecture, 135 laboratory
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

Music Courses

MUSC B2 Basic Elements of Music

3 units
Description: Designed for the student with little or no previous experience in the reading and writing of music. Development of beginning skills in music notation and basic elements of music theory. Course also serves as pre-requisite for Music B4A Elementary Theory.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: MUS 110
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B4A Elementary Theory

3 units
Prerequisites: MUSC B2 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Concurrent enrollment in MUSC B15a.
Description: A study of common practice harmony. Diatonic harmony including scales, key signatures, triad and seventh chord constructions and 4-part voice leading including phrase structure.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: MUS 130
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B4B Elementary Theory

3 units
Prerequisites: MUSC B4a with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Concurrent enrollment in MUSC B15 and MUSC B230b.
Description: A study of common practice harmony. Chromatic harmony from secondary dominants through augmented sixth chords including simple form analysis and modulation.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: MUS 140
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B4C Intermediate Theory-Contemporary

Materials

3 units
Prerequisites: MUSC B4b with a grade of ‘C’ or better.
Corequisite: MUSC B15c must be taken concurrently.
Description: Study of compositional styles and practices of Western art music since the late 19th century including practical application
in composition: Covers advanced chromaticism, impressionism,
serialism, basic set theory, and jazz harmony.
Note: Not open to students who have taken the equivalent course,
MUSC B4d. Formerly MUSC B4d.
Hours: 54 lecture
CCS: Credit Course
C-ID: MUS 150
Transferable: CSU and private colleges

MUSC B5A Class Piano

1 unit
Recommended: Reading - one level prior to transfer. English Level 6.
Description: Beginning study of piano. Includes instruction in
note reading, technical exercises, and repertoire study. Intended for
students preparing to teach in the elementary grades and for music
majors specializing in voice or instruments, other than the piano.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B5B Class Piano

1 unit
Prerequisites: Demonstrated by audition of piano skill of at least
MUSC B5a level.
Recommended: MUSC B5A with a grade of ‘C’ or better or
equivalent. Reading - one level prior to transfer.
Description: Continuing study of piano beyond beginning level
(MUSC B5a). Includes instruction in elementary keyboard theory,
technical exercises, and repertoire study. Intended for students
preparing to teach in the elementary grades and for music majors
specializing in voice or instruments, other than the piano.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B6A Class Voice

1 unit
Recommended: Basic understanding of music fundamentals.
Description: Elementary solo vocal training. Emphasizes breath
control, tone placement, posture, diction, and interpretive concepts.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE C.1
### MUSC B6B Class Voice

1 unit  
**Prerequisites:** Demonstration by audition of skill of at least MUSC B6a level.  
**Description:** Solo voice training. Emphasizes repertoire and further technical development beyond the level of MUSC B6a.  
**Hours:** 54 laboratory  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; BC GE C.1

### MUSC B6C Class Voice

1 unit  
**Prerequisites:** Demonstration by audition of skill of at least MUSC B6b level.  
**Description:** Solo voice training. Emphasizes repertoire and further technical development beyond the level of MUSC B6c.  
**Hours:** 54 laboratory  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges

### MUSC B6D Class Voice

1 unit  
**Prerequisites:** Demonstration by audition of skill of at least MUSC B6c level.  
**Description:** Solo vocal training. Emphasizes repertoire and further technical development beyond the level of MUSC B6c.  
**Hours:** 54 laboratory  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges

### MUSC B7 Applied Music

1 unit  
**Prerequisite:** Enrollment open only to students who pass a qualifying audition.  
**Corequisites:** Must be concurrently enrolled in a music ensemble (MUSC B10A, MUSC B12A, MUSC B13A or MUSC B14A) Must be concurrently enrolled in one of the following music theory/ear training course combinations or have completed the entire sequence with a grade of ‘C’ or better in each course: MUSC B2, MUSC B4A/B15A, MUSC B4B/B15B, or MUSC B4C/B15C.  
**Description:** Individual and group instruction in solo performance for music majors culminating in a juried performance final. Includes instruction in technique, repertoire, and performance practice. Designed for students with significant prior experience/instruction with a particular instrument or singing.  
**Hours:** 54 laboratory  
**Repeat:** 3  
**CCS:** Credit Course  
**C-ID:** MUS 160  
**Transferable:** UC, CSU and private colleges

### MUSC B9A Beginning Class Guitar

1 unit  
**Recommended:** Reading - one level prior to transfer.  
**Description:** A guitar course in sequence designed to teach the student how to play the guitar. Correct right and left hand technique, how to read guitar music, basic chords, finger-picking, scales, arpeggios, slurs, bar chords, and strumming. A suitable acoustic guitar is required.  
**Hours:** 54 laboratory  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; BC GE C.1

### MUSC B9B Intermediate Class Guitar

1 unit  
**Prerequisites:** MUSC B9a with a grade of ‘C’ or better or guitar playing ability of at least MUSC B9a level as determined by instructor.  
**Recommended:** Reading - one level prior to transfer. A suitable acoustic guitar is required.  
**Description:** Intermediate techniques of guitar playing. Emphasizes advanced chord positions, scales, arpeggios, slurs, and bar chords.  
**Hours:** 54 laboratory  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; BC GE C.1

### MUSC B10A Concert Band

1 unit  
**Prerequisites:** Audition.  
**Description:** Rehearsal and performance of standard band literature. Participation in public performances such as concerts, assemblies, and additional rehearsals are required.  
**Hours:** 54 laboratory  
**Repeat:** 3  
**CCS:** Liberal Arts/Science  
**C-ID:** MUS 180  
**Transferable:** UC, CSU and private colleges; BC GE C.1

### MUSC B11A College Orchestra

1 unit  
**Prerequisites:** Limitation on enrollment, audition required.  
**Description:** Performance of standard works from the orchestra literature. An audition and field trips are required for this course.  
**Hours:** 54 laboratory  
**Repeat:** 3  
**CCS:** Liberal Arts/Science  
**C-ID:** MUS 180  
**Transferable:** UC, CSU and private colleges; BC GE C.1

### MUSC B12A College Orchestra

1 unit  
**Prerequisites:** Limitation on enrollment, audition required.  
**Description:** Study of major choral literature of all the historical periods. Public performance required for credit. Field trips for performances are required.  
**Hours:** 81 laboratory  
**Repeat:** 3  
**CCS:** Liberal Arts/Science  
**C-ID:** MUS 180  
**Transferable:** UC, CSU and private colleges; BC GE C.1

### MUSC B13A Jazz Ensemble

1 unit  
**Prerequisites:** Audition.  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Practical experience working in various instrumental combinations and styles in the jazz tradition. Training in jazz literature, phrasing, ensemble playing, musicality, and creative improvisation leading to public performances on and off campus.  
**Hours:** 54 laboratory  
**Repeat:** 3  
**CCS:** Credit Course  
**C-ID:** MUS 180  
**Transferable:** UC, CSU and private colleges; BC GE C.1

### MUSC B14A College Choir

1.5 units  
**Prerequisites:** Limitation on enrollment, audition required.  
**Description:** Study of major choral literature of all the historical periods. Public performance required for credit. Field trips for performances are required.  
**Hours:** 81 laboratory  
**Repeat:** 3  
**CCS:** Liberal Arts/Science  
**C-ID:** MUS 180  
**Transferable:** UC, CSU and private colleges; BC GE C.1
MUSC B15A Ear Training and Sight Singing
1 unit
Description: Drill in the singing and recognition of intervals, scales, and melodies with solfège syllables using moveable do. Practice in rhythm, harmonic, and melodic dictation. Practice in conducting and performing rhythms.
Hours: 54 laboratory
CCS: Liberal Arts/Science
C-ID: MUS 135
Transferable: UC, CSU and private colleges

MUSC B15B Ear Training and Sight Singing
1 unit
Prerequisites: MUSC B15A with a grade of ‘C’ or better.
Corequisite: Concurrent enrollment in MUSC B4b and MUSC B230B.
Description: This course applies and develops the rhythmic, melodic, and harmonic materials of MUSC B4B Elementary Theory through ear training, sight singing, analysis, and dictation.
Hours: 54 laboratory
CCS: Credit Course
C-ID: MUS 145
Transferable: UC, CSU and private colleges

MUSC B15C Intermediate Ear Training and Sight Singing
1 unit
Prerequisite: MUSC B15B with a grade of ‘C’ or better.
Corequisite: MUSC B4C and MUSC B230C must be taken concurrently.
Description: Aural skill training in chromatic, post-tonal, and jazz oriented materials including exercises in singing, rhythm performance/conducting, keyboard, dictation (melodic, rhythmic, and harmonic), and scale mode chord aural recognition.
Hours: 54 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

MUSC B17A Chamber Singers
1.5 units
Prerequisites: Limitation on enrollment: Audition.
Description: A select choral group, specializing in rehearsal and performance of all choral literature for all historical periods. Public performance required for credit. Field trips for performances are required.
Hours: 81 laboratory
Repeat: 3
CCS: Liberal Arts/Science
C-ID: MUS 180
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B18A Drum Line
1 unit
Prerequisites: Previous experience in a drum line or similar ensemble and evaluation of proficiency by instructor.
Description: Rehearsal and performance of drum line literature suitable for field, parade, and competition. Field trips and performances required.
Note: MUSC B18a, B18b, B18c and B18d, or any combination of these courses has a limit of 3 repeats.
Hours: 54 laboratory
Repeat: 3
CCS: Liberal Arts/Science
Transferable: Associate Degree only. Not transferable.

MUSC B21A History of Music
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Historical survey of western music from the Greco-early Christian era to the present. Uses recorded music and musical scores to study changing musical styles.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B21B History of Music
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Historical survey of western art music from the music of Beethoven to the present. Uses recorded music and musical scores to study changing musical styles.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B22 Music Appreciation
3 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to appreciation of music with an emphasis on Western art music: historical development is surveyed with recordings, videos, multi-media computer presentations, and live performances as illustrations for directed listening as a basis for appreciation.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: MUS 100
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B23 Appreciation of Jazz
3 units
Recommended: Reading - one level prior to transfer.
Description: Comparative survey of jazz styles, musicians, and representative works. Students learn core musical concepts, engage in directed listening activities, attend live concerts, and discuss the various theoretical, aesthetic, and philosophical ideas that inspire the creation of jazz music.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B24 A Survey of World Music
3 units
Recommended: Reading and Writing - one level prior to transfer.
Description: An introductory course surveying the dominant musical cultures of the new and non-western world with comparisons to European/western music. Emphasizes listening to and participation in world music through lecture, films, recording, live presentations, and class performance.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.1; BC GE C.1
MUSC B27 History of Rock and Roll
3 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to the historical and stylistic developments of rock music, with emphasis on its social, economic and political consequences.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B54A College Chorale
1 unit
Prerequisites: Previous experience in a choral group and demonstrated proficiency.
Recommended: Reading - one level prior to transfer.
Description: Select choral ensemble of mixed voices specializing in the rehearsal and performance of major choral works. Repertoire is selected from choral literature of all periods. Field trips for performances are required.
Hours: 54 laboratory
Repeat: 3
CCS: Liberal Arts/Science
Transferable: Not degree applicable. Not transferable.

MUSC B54B College Chorale
1 unit
Prerequisites: Previous experience in a choral group and demonstrated proficiency.
Recommended: Reading - one level prior to transfer.
Description: Select choral ensemble of mixed voices specializing in the rehearsal and performance of major choral works. Repertoire is selected from choral literature of all periods. Field trips for performances are required.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: Not degree applicable. Not transferable.

MUSC B54C College Chorale
1 unit
Prerequisites: Previous experience in a choral group and demonstrated proficiency.
Recommended: Reading - one level prior to transfer.
Description: Select choral ensemble of mixed voices specializing in the rehearsal and performance of major choral works. Repertoire is selected from choral literature of all periods. Field trips for performances are required.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: Not degree applicable. Not transferable.

MUSC B54D College Chorale
1 unit
Prerequisites: Previous experience in a choral group and demonstrated proficiency.
Recommended: Reading - one level prior to transfer.
Description: Select choral ensemble of mixed voices specializing in the rehearsal and performance of major choral works. Repertoire is selected from choral literature of all periods. Field trips for performances are required.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: Not degree applicable. Not transferable.

MUSC B230A Music Laboratory
0.5 unit
Description: A computer-based, positive attendance course featuring self-pacing programmed system instruction in one of two self-directed music technology areas: reading, transcribing, and performing rhythmic, harmonic, and melodic elements of music and/or generating, manipulating, editing, and producing digital audio content by gaining experience with digital audio workstations (DAWs). Offered on a Pass/No Pass basis.
Hours: 27 laboratory
CCS: Liberal Arts/Science
Transferable: Not degree applicable. Not transferable.

MUSC B230B Music Laboratory
0.5 unit
Description: A computer-based, positive attendance course featuring self-pacing programmed system instruction in one of two self-directed music technology areas: reading, transcribing, and performing rhythmic, harmonic, and melodic elements of music and/or generating, manipulating, editing, and producing digital audio content by gaining experience with digital audio workstations (DAWs).
Hours: 27 laboratory
CCS: Liberal Arts/Science
Transferable: Not degree applicable. Not transferable.

MUSC B230C Music Laboratory
0.5 unit
Description: A computer-based, positive attendance course featuring self-pacing programmed system instruction in one of two self-directed music technology areas: reading, transcribing, and performing rhythmic, harmonic, and melodic elements of music and/or generating, manipulating, editing, and producing digital audio content by gaining experience with digital audio workstations (DAWs).
Hours: 27 laboratory
CCS: Liberal Arts/Science
Transferable: Not degree applicable. Not transferable.

Natural Resources
Management Courses

NRES B1 Range Management
3 units
Recommended: Reading - one level prior to transfer; Writing - one level prior to transfer.
Description: Basic range management and improvement practices. Proper utilization of rangeland resources. Overview of multiple use principles. Maintenance and improvement of range plant communities. Field trips required.
Hours: 36 lecture, 54 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

NRES B2 Parks and Outdoor Recreation
3 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to national, state, county, city, and private park systems. History, philosophy, policy and principles of the formation, administration and functioning of recreational units at the park, district and regional levels.
Hours: 54 lecture
Nutrition Courses

NUTR B10 Elementary Nutrition
3 units
Recommended: Reading and writing - one level prior to transfer.
Description: Basic concepts and principles of nutrition with application to current nutrition issues. Emphasizes improvement of personal health through proper eating habits.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

NUTR B50 Modified Diets
2 units
Prerequisites: NUTR B10 with a grade of C.
Recommended: Reading - one level prior to transfer.
Description: Nutrition care for acute illnesses and chronic diseases. Related normal and abnormal physiology, nutrition assessment and care plans and client education techniques are emphasized. Field trips may be required.
Hours: 36 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

Ornamental Horticulture Courses

ORNH B1 Introduction to Ornamental Horticulture
3 units
Description: General course in environmental horticulture with emphasis on nursery operations, landscaping, turf management, and floral industries including: basic botany, cultural practices, propagation, structures and layout, pest management, planting, container gardening and houseplants, floral design, plant identification, turf grass installation and care, and survey of career opportunities. Laboratory required. Field trips required.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CU and private colleges

ORNH B2 Fundamentals of Nursery Management and Plant Production
3 units
Recommended: Reading - one level prior to transfer and Writing - one level prior to transfer.
Description: This is an introductory class in nursery business operations, skills, and processes appropriate to the horticulture industry in California. Emphasis will be placed upon laws/regulations, record keeping, budgeting, computer skills, professional organizations, cooperatives, merchandising, salesmanship, and communications. Propagation media, nursery designs, propagation, structures, seedage, cuttage, plant structure, rooting aids, transplanting, stepping up, and potting will be covered.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CU and private colleges

ORNH B3 Landscape Installation and Maintenance
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Enhancing the function and aesthetic value of public and private landscapes by applying appropriate installation and maintenance techniques in Kern County and California. Topics include: sustainability, planting, pruning, watering, soil fertility, pest management, weed control, and landscape maintenance business practices. Laboratory required.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CU and private colleges

ORNH B4 Plant Propagation
3 units
Recommended: Reading and writing - one level prior to transfer.
Description: Principles of sexual propagation, seedage, and asexual propagation, budding, grafting, cuttings, layering, division and separation. Principles of tissue culture.
Hours: 36 lecture, 54 laboratory
CCS: Credit Course
Transferable: CU and private colleges

ORNH B6 Ornamental Plant Identification-Ground Covers, Vines, and Dwarf Shrubs
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Identification, habits of growth, culture and landscape use of dwarf shrubs, vines, ground covers, annuals, and seasonal plants, adapted to the Central Valley of California and the surrounding regions. Covers those plants best observed and studied in the fall of the year. Plant materials from local regions will also be included. Plants emphasized will come from the current California Association of Nurseries & Garden Centers (CANGC) and Professional Landcare Network (PLANET) Certification Tests Plant Lists. Laboratory required. Field trips required.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ORNH B7 Ornamental Plant Identification-Large Shrubs, Small Trees, Large Trees, and Palms
3 units
Description: Identification, habits of growth, culture and landscape use of large shrubs, small trees, large trees and palms adapted to the Central Valley of California and the surrounding mountains. Field trips required.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ORNH B8 Introduction to Landscape Design
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: The study and implementation of the art and science of landscape design, including principles of design, the design process, drafting, graphics, and presentation methods. Project emphasis is placed upon residential and small commercial sites. Course includes introduction to computer landscape design software programs. Laboratory required.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CU and private colleges
**ORNH B36 Beginning Floral Design**  
*3 units*  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Introduction to the fundamentals of theory, techniques and skills currently practiced in the floral industry. Includes applied art principles, cut flower care, handling practices, proper use of florist tools and materials, pricing of floral products and use of current floral business technology. Includes constructing corsages, floral arrangements, and foliage plant items, which meet floral industry standards.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges; BC GE C.1

**Philosophy Courses**

**PHIL B6A Introduction to Philosophy**  
*3 units*  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** A method, problems, multicultural and historical approach to philosophy. Epistemology (the study of knowledge), metaphysics (the study of reality), ethics (the study of morality), and philosophy of religion are covered from both traditional Western and non-Western sources.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**C-ID:** PHIL 100  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

**PHIL B7 Introduction to Logic**  
*3 units*  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Traditional basics of correct reasoning with an emphasis on their relationships to language, thought and argument.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**C-ID:** PHIL 110  
**Transferable:** UC, CSU and private colleges; CSU GE A.3; CSU GE C.2; BC GE B.2

**PHIL B9 Critical Thinking and Advanced Composition**  
*3 units*  
**Prerequisites:** ENGL B1A with a grade of ‘C’ or better  
**Description:** Development of critical thinking skills necessary for evaluating and formulating argumentative/persuasive essays, and practice in applying those skills.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; IGETC 1.B; CSU GE A.3; CSU GE C.2; BC GE B.2

**PHIL B10 Introduction to Ethics**  
*3 units*  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Examination of the philosophical approach to morality. Study of the meaning of ethics and morality and methods used in ethical theorizing and reasoning. Emphasizes major ethical issues and theories. Discusses how to set up an ethical system.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science

**PHIL B12 Ethics of Living and Dying**  
*3 units*  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** A philosophical yet practical approach to some of the major medical-ethical problems facing human beings today, such as: what patients should be told, the nature and importance of informed consent, the meaning and criteria for living, dying, and death including caring for the dying, and allowing to die, mercy killing. Permeating these problems will be a study of the basis for ethical relationships among human beings through a study of what morality is, consequentialist and nonconsequentialist theories of morality, and how to set up an ethical system. Special emphasis will be placed on the relationship of the professional and the well to the sick, dying, and bereaved.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; CSU GE C.2; CSU GE E; BC GE C.2

**PHIL B18 History of Ancient Philosophy**  
*3 units*  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** A survey of the development of Western philosophy from the Pre-Socratic to the Hellenistic philosophers with particular emphasis on the philosophies of Plato and Aristotle. The focus throughout will be on analyzing and evaluating the central arguments of these philosophers as well as understanding how their views have contributed to the subsequent development of philosophy, science, art, and literature.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**Transferable:** CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

**PHIL B37 Introduction to World Religions**  
*3 units*  
**Recommended:** Reading - one level prior to transfer.  
**Description:** A survey of three Western religions - Judaism, Christianity, and Islam, and three Eastern Religions - Confucianism, Hinduism and Buddhism. Examines each religion's history, sacred scriptures, geographic dispersion, primary theological concepts and spiritual practices, and contemporary role. Emphasis on understanding the distinct belief and practice of an individual in each of these religious traditions.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

**Physical Education Courses**

**PHED B1A Educational Planning for College Athletes**  
*1 unit*  
**Prerequisite:** Limitation on Enrollment, this class is designed for identified student athletes.  
**Description:** Designed to assist student athletes in understanding college matriculation, educational plans, and collegiate transfer
requirements. Satisfies the 0.5 unit educational planning requirement for graduation from Bakersfield College.

**PHED B2SB Aquatics: Beginning Swimming**

*1 unit*

**Description:** Course in beginning swimming in which the focus is on the knowledge and skill necessary to handle the body with ease in the water. Course covers basic mechanical, physiological and psychological concepts, fundamental safety skills and basic swimming strokes for the four competitive swimming strokes (Free, Back, Breast, and Fly).

**Note:** UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

**Hours:** 54 laboratory

**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges; BC GE E

**PHED B3ADP Adaptive Physical Education**

*1 unit*

**Description:** Individualized fitness class for the physically challenged (as verified by D.S.P.S.) with activities designed to emphasize resistive circuit training combined, when possible, with aerobic training.

**Note:** Students who are physically challenged may contact DSPS to determine if they qualify to enroll in the course again. Justification must be documented by a DSPS counselor.

**Hours:** 54 activity

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; CSU GE E; BC GE E

**PHED B6A Coeducational and Individual Activity: Archery**

*1 unit*

**Description:** Archery as a lifelong physiological and social activity. An elementary course in archery to include target archery and field archery.

**Note:** UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

**Hours:** 54 laboratory

**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges; BC GE E

**PHED B6BB Coeducational and Individual Activity: Basketball**

*1 unit*

**Description:** Basketball as a lifelong physiological, psychological and social activity. Skills, strategies, rules and etiquette of basketball.

**Note:** UC campuses give a maximum of four semester units of credit for Physical Education activity units.

**Hours:** 54 activity

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; BC GE E

**PHED B6BLB Coeducational and Individual Activity: Beginning Ballet (DANC B6BLB)**

*1 unit*

**Description:** Co-educational beginning ballet course. Includes warm-up exercises, technical skills and terminology.

**Hours:** 54 laboratory

**PHED B6G Coeducational and Individual Activity: Golf**

*1 unit*

**Description:** Includes instruction in techniques, tactics, and physical conditioning related to the sport of golf.

**Note:** UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

**Hours:** 54 laboratory

**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges; BC GE E

**PHED B6JD Coeducational and Individual Activity: Jazz Dance (DANC B6jd)**

*1 unit*

**Description:** Fundamental Jazz techniques and fundamental terminology of ballet as they relate to jazz dancing; including warm-up exercises for the preparation of the human body as an instrument for dance. Different styles and rhythms of jazz dance and music for jazz dance will be introduced.

**Note:** Identical to DANC B6jd. UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

**Hours:** 54 laboratory

**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges; BC GE E

**PHED B6SC Coeducational and Individual Activity: Soccer**

*1 unit*

**Description:** Soccer as a lifelong physiological, psychological and social activity. Training in the fundamental skills of soccer. Understanding of the rules of the game, safety and basic strategy of play.

**Note:** UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

**Hours:** 54 laboratory

**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges; BC GE E

**PHED B6T Coeducational and Individual Activity: Tennis**

*1 unit*

**Description:** Tennis as a lifelong physiological, psychological and social activity. Student will learn basic tennis skills, rules, strategies and etiquette.

**Note:** UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

**Hours:** 54 laboratory
PHED B6V Coeducational and Individual Activity: Beginning Volleyball

1 unit
Description: An elementary course in volleyball to include instruction in techniques, tactics, and physical conditioning related to the sport of volleyball.
Note: UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE E

PHED B6WT Coeducational and Individual Activity: Weight Training

1 unit
Description: Coeducational course stressing correct application of weight training principles used with free weights. Instruction in the correct and safe use of free weights to develop strength, endurance, and general conditioning.
Note: UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE E

Athletic Code Eligibility Requirements

An athlete must be continuously enrolled in a minimum of 12 units during the season of competition. Students competing in a sport must successfully complete 24 units to be eligible for a second season of competition. A 2.0 grade point average must be maintained to be eligible to participate.

NOTE: All intercollegiate sports may be substituted for physical education requirement for graduation. UC campuses give a maximum of four semester units of credit for appropriate physical education activity courses.

PHED B10 Intercollegiate Competition for Men: Football

2 units
Description: Intercollegiate competition for Men's Football team. Student must meet athletic code eligibility requirements. Field trips may be required.
Hours: 180 by arrangement (usually 2 hours per day)
Repeat: 3
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B11 Intercollegiate Competition for Men: Basketball

1 unit
Description: Intercollegiate competition for Men's Basketball team. Student must meet athletic code eligibility requirements. Field trips may be required.
Hours: 90 activity
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B12 Intercollegiate Competition for Men: Track and Field

2 units
Description: Intercollegiate competition for Men's Track and Field team. Student must meet athletic code eligibility requirements. Field trips may be required.
Hours: 180
Repeat: 3
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B13 Intercollegiate Competition for Men: Tennis

2 units
Description: Intercollegiate competition for Men's Tennis team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: Field trips may be required.
Hours: 180
Repeat: 3
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B14 Intercollegiate Competition for Men: Baseball

2 units
Description: Intercollegiate competition for Men's Baseball team. Student must meet athletic code eligibility requirements. Field trips may be required.
Hours: 180 activity
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B16 Intercollegiate Competition for Men: Golf

2 units
Description: Intercollegiate competition for Men's Golf team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: May be substituted for physical education requirement for graduation.
Hours: 180
Repeat: 3
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B17 Intercollegiate Competition for Men: Cross Country

2 units
Description: Intercollegiate competition for Men's Cross Country team. Student must meet athletic code eligibility requirements. Field trips may be required.
Hours: 180
Repeat: 3
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B20 Intercollegiate Competition for Men: Wrestling

2 units
Description: Intercollegiate competition for Men's Wrestling team. Student must meet athletic code eligibility requirements. Field trips may be required.
Hours: 180
Repeat: 3  
CCS: Liberal Arts/Science  
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

**PHED B22 Intercollegiate Competition for Women:**  
**Tennis**  
2 units  
**Description:** Intercollegiate competition for Women’s Tennis team. Student must meet athletic code eligibility requirements. Field trips may be required.  
**Note:** May be substituted for physical education requirement for graduation.  
**Hours:** 180  
**Repeat:** 3  
CCS: Liberal Arts/Science  
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

**PHED B23 Intercollegiate Competition for Women:**  
**Soccer**  
2 units  
**Description:** Intercollegiate competition for Women’s Soccer team. Student must meet athletic code eligibility requirements. Field trips may be required.  
**Hours:** 180 activity  
**Repeat:** 3  
CCS: Credit Course  
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

**PHED B24 Intercollegiate Competition for Women:**  
**Golf**  
2 units  
**Description:** Intercollegiate competition for Women’s Golf team. Student must meet athletic code eligibility requirements. Field trips may be required.  
**Note:** May be substituted for physical education requirement for graduation.  
**Hours:** 180 laboratory  
**Repeat:** 3  
CCS: Liberal Arts/Science  
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

**PHED B25 Intercollegiate Competition for Women:**  
**Volleyball**  
2 units  
**Description:** Intercollegiate competition for Women’s Volleyball team. Student must meet athletic code eligibility requirements. Field trips may be required.  
**Hours:** 180  
**Repeat:** 3  
CCS: Liberal Arts/Science  
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

**PHED B26 Intercollegiate Competition for Women:**  
**Track and Field**  
2 units  
**Description:** Intercollegiate competition for Women’s Track and Field team. Student must meet athletic code eligibility requirements. Field trips may be required.  
**Hours:** 180  
**Repeat:** 3  
CCS: Liberal Arts/Science  
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

**PHED B27 Intercollegiate Competition for Women:**  
**Cross Country**  
2 units  
**Description:** Intercollegiate competition for Women’s Cross Country team. Student must meet athletic code eligibility requirements. Field trips may be required.  
**Hours:** 180  
**Repeat:** 3  
CCS: Liberal Arts/Science  
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

**PHED B28 Intercollegiate Competition for Women:**  
**Basketball**  
1 unit  
**Description:** Intercollegiate competition for Women’s Basketball team. Student must meet athletic code eligibility requirements. Field trips may be required.  
**Hours:** 90 activity  
**Repeat:** 3  
CCS: Credit Course  
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

**PHED B29 Intercollegiate Competition for Women:**  
**Softball**  
2 units  
**Description:** Intercollegiate competition for Women’s Softball team. Student must meet athletic code eligibility requirements. Field trips may be required.  
**Hours:** 180  
**Repeat:** 3  
CCS: Credit Course  
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

**PHED B32 Shape Up**  
3 units  
**Description:** An integration of physiological, psychological and sociological understandings of the human being in relationship to physical activity as a lifelong pursuit. Topics include physical fitness, stress reduction benefits of exercise, nutrition, socialization and individual differences in human behavior.  
**Hours:** 18 lecture, 108 activity  
CCS: Credit Course  
Transferable: CSU and private colleges; CSU GE E; BC GE E

**PHED B33 Intercollegiate Swimming**  
2 units  
**Description:** Intercollegiate coeducational competition.  
**Note:** May be substituted for physical education requirement for graduation. (UC campuses give a maximum of four semester units of credit for appropriate Physical Education Activity courses.) BC GE E; CSU GE E. Field trips may be required.  
**Hours:** 180  
**Repeat:** 3  
CCS: Liberal Arts/Science  
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

**PHED B36 First Aid and CPR**  
3 units  
**Recommended:** Reading - one level prior to transfer  
**Description:** This course involves the theory and detailed demonstration of the first aid care of the injured. The student will learn to assess a victim’s condition and incorporate proper
treatment. Standard first aid, C.P.R. and AED certification(s) will be granted upon successful completion of requirements.

**Materials Fee:** $27.00  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**C-ID:** KIN 101  
**Transferable:** UC, CSU and private colleges; BC GE E

**PHED B39A Prevention and Care of Athletic Injuries**  
**3 units**  
**Recommended:** Reading - one level prior to transfer. BIOL B32 and BIOL B33 with grades of 'C' or better.  
**Description:** An introduction to the field of sports medicine. Evaluation, rehabilitation and prevention of athletic injuries. Major emphasis will be on prevention of injuries and performance enhancement, through pre-screening for potential biomechanical deficiencies, strength training, conditioning, flexibility, nutrition and proper hydration techniques. The instructor will properly advise students who take this course of limitations and proper skills applications. Field trip required.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges

**PHED B39B Advanced Athletic Training**  
**3 units**  
**Recommended:** BIOL B32 and BIOL B33  
**Description:** Evaluation and rehabilitation of athletic injuries; exposure to various physical therapy modalities and prevention of injuries will be discussed. The athletic trainer will properly advise students who take this course of limitations and proper skills applications. Field trips required.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges

**PHED B41 Recreation Leadership**  
**3 units**  
**Description:** Survey of employment opportunities in the field of recreation. Students will learn the meaning and scope of recreation leadership, the problems of organization, types of activities and elements of leadership.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges

**PHED B42 Introduction to Kinesiology**  
**3 units**  
**Recommended:** Reading and Writing – one level prior to transfer.  
**Description:** This course is an introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions.  
**Hours:** 54  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges

**PHED B50 Intercollegiate Conditioning**  
**1 unit**  
**Description:** Pre-season intercollegiate athletics. Enrollment is limited to athletic team candidates and includes, sport specific aerobic and anaerobic weight training, appropriate technique, strength conditioning, speed development and game play. Students who repeat this course will improve skills and fitness through further instruction and practice.  
**Hours:** 54 activity  
**Repeat:** 3  
**CCS:** Credit Course  
**Transferable:** Not degree applicable. Not transferable.

**PHED B53 Intercollegiate Weight Training**  
**1 – 2 units**  
**Prerequisite:** Limitation on Enrollment, only students who are identified as intercollegiate student athletes will be eligible to enroll. This course is designed for students who are participating in a competitive sport at Bakersfield College.  
**Description:** Intercollegiate athletics course emphasizing weight training. Enrollment is limited to athletic team candidates and includes, sport specific aerobic and anaerobic weight training, appropriate technique, strength conditioning, speed development and explosive exercises. Students who repeat this course will improve strength, flexibility, and fitness through detailed instruction and practice.  
**Hours:** 27 – 108  
**CCS:** Credit Course  
**Not Degree Applicable. Not Transferable.**

**Physical Science Courses**

**PHSC B12 Physical Science**  
**4 units**  
**Prerequisites:** MATH B60 with a grade of 'C' or better or assessment math level 3 (MATH B70 ready)  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Introduces facts, principles and laws from physics and chemistry. Includes motion, force, energy, electricity and magnetism, waves, atom, periodic laws, ions, solutions, chemical reaction, organic chemistry.  
**Hours:** 54 lecture, 54 laboratory  
**CCS:** Credit Course  
**C-ID:** CHEM 140  
**Transferable:** UC, CSU and private colleges; CSU GE B.1; CSU GE B.3; BC GE B.1

**Physics Courses**

**PHYS B2A General Physics-Mechanics and Heat**  
**4 units**  
**Prerequisites:** MATH BD/MATH B70 with a grade of 'C' or better.  
**Corequisites:** Math B1A (may be taken concurrently)  
**Description:** The properties of matter; mechanics and heat. Emphasizes understanding laws, principles, and theories. Required for most science, premedical, most other pre-professional and technical majors.  
**Hours:** 54 lecture, 54 laboratory  
**CCS:** Credit Course  
**C-ID:** PHYS 105  
**Transferable:** UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; BC GE B.1

**PHYS B2B General Physics-Sound, Light, Electricity, Magnetism, Modern Physics**  
**4 units**  
**Prerequisites:** MATH B1B and PHYS B2a with a 'C' or better.  
**Description:** The second in a 2-course algebra/trigonometry-based general physics sequence required of many science, pre-medical, and other pre-professional and technical majors. Includes
electricity and magnetism, geometrical and physical optics, quantum physics, atomic physics, nuclear physics, and relativity. Emphasizes principles, laws, and problem solving.

**Hours:** 54 lecture, 54 laboratory  
**CCS:** Credit Course  
**C-ID:** PHYS 110  
**Transferable:** UC, CSU and private colleges

### PHYS B4A Mechanics and Wave Motion

4 units  
**Prerequisites:** MATH B6a with a grade of 'C' or better.  
**Recommended:** Reading - one level prior to transfer.  
**Description:** The first in a sequence of three semester courses required of physics, engineering, and other majors requiring a thorough physics background. Includes vectors, kinematics, dynamics, momentum, energy, rotation, gravitation, oscillations, fluids, and wave motion.  
**Hours:** 54 lecture, 54 laboratory  
**CCS:** Credit Course  
**C-ID:** PHYS 205  
**Transferable:** UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; BC GE B.1

### PHYS B4B Heat, Electricity, and Magnetism

4 units  
**Prerequisites:** PHYS B4A and MATH B6b with grades of 'C' or better.  
**Recommended:** MATH B6c  
**Description:** Second of a three-course calculus-based physics sequence required of physics, engineering, and other majors requiring a thorough physics background. Includes thermodynamics, electricity, magnetism, AC circuits, electromagnetic oscillations, and electromagnetic radiation. Emphasizes principles, laws and problem-solving.  
**Hours:** 54 lecture, 54 laboratory  
**CCS:** Credit Course  
**C-ID:** PHYS 210  
**Transferable:** UC, CSU and private colleges

### PHYS B4c Optics and Modern Physics

4 units  
**Prerequisites:** PHYS B4b and Math B6b with grades of 'C' or better.  
**Description:** Third of a three-course calculus-based physics sequence required of physics, engineering, and other majors requiring a thorough physics background. Includes geometric and physical optics, relativity, quantum physics, quantum mechanics, atomic and molecular physics, and nuclear physics. Emphasizes principles, laws, and problem solving.  
**Hours:** 54 lecture, 54 laboratory  
**CCS:** Credit Course  
**C-ID:** PHYS 215  
**Transferable:** UC, CSU and private colleges

### Political Science Courses

#### POLS B1 American Government: National, State and Local

3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** A study of American government with emphasis on the national government. Includes a comprehensive analysis of governmental structure, functions, principles and problems. Includes analysis of California state and local governments. Partially satisfies the requirements in U.S. Constitution, American history and institutions and California state and local government.  
**Hours:** 54 lecture  
**CCS:** Credit Course

#### POLS B2 Comparative Government

3 units  
**Recommended:** ENGL B50 with a grade of 'C' or better. Reading - one level prior to transfer.  
**Description:** A comparative analysis of government structures and the underlying economic, social, and cultural systems of the principal nations of the industrial world: United States, United Kingdom, France, Federal Republic of Germany, Russia, and Japan. Additional emphasis on certain nations in sensitive geographic area or countries whose size and developing economics make them important, such as the People's Republic of China, Brazil, Mexico, Iran, India and Nigeria.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**C-ID:** POLS 130  
**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.8; BC GE D.2

#### POLS B3 International Politics

3 units  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Surveys the dynamics and ideologies of present-day international politics and rivalries. Development of the national state system and the evolution of the techniques and arts of diplomacy, and the causes of war.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**C-ID:** POLS 140  
**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.8; BC GE D.2

#### POLS B5 Current Issues/American Government

1-2 units  
**Recommended:** ACDV B50 and ENGL B50  
**Description:** Study of special current events, such as elections, impeachment proceedings, public policies, or Constitutional revisions.  
**Note:** Offered only as such events occur.  
**Hours:** 18 lecture hours for each unit (18-36)  
**CCS:** Liberal Arts/Science  
**Transferable:** CSU and private colleges

#### POLS B12 Contemporary Issues in California State and Local Government

3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Analysis of the role of state and local governments, with special emphasis directed to the history and development of these institutions; the state and local political environment; political parties, interest group, citizen and media inputs; current problems and changing functions affecting local governments. Partially satisfies the requirements in U.S. Constitution, American history and institutions.  
**Hours:** 54 lecture  
**CCS:** Credit Course
POLS B16 Vital Political Problems
3 units
Recommended: ENGL B50. Reading - one level prior to transfer.
Description: Examination of major political problems challenging the United States today. Emphasis on class discussion and individual analysis of controversial topics involving political policy in the context of the study of political science.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 4.I; IGETC 4.J; CSU GE D.9; BC GE D.2

PSY 150
54 lecture
PSY 200
72 lecture
PSY 170
90 lecture

PSYC Courses

PSYC B1A General Psychology
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Emphasis is on the scientific process and research methods employed in psychology. Biological, developmental, cognitive, and sociocultural theories are covered to explain psychological phenomena. Psychological disorders and the evolving corresponding treatment protocols are applied to a diversity of individuals and groups.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: PSY 1 10
Transferable: UC, CSU and private colleges; IGETC 4.I; CSU GE D.9; CSU GE E; BC GE D.1; BC GE E

PSYC B1B Biological Psychology
3 units
Prerequisite: PSYC B1a with a grade of ‘C’ or better.
Recommended: Reading and Writing one level prior to transfer.
Description: Ethical standards and current research methodologies for studying brain behavior relationships and mental processes in all life forms: Emphasis placed on using empirical analysis to understand and solve problems related to mechanisms underlying neural conduction and synaptic transmission, sensory and perceptual systems, plasticity, and brain damage, development, learning and memory, hunger, sex, drug use, sleep, lateralization of function and psychological disorders. Designed for psychology majors planning for upper division work in psychology.
Hours: 54 lecture
CCS: Credit Course
C-ID: PSY 1 50
Transferable: UC, CSU and private colleges; IGETC 5.B; CSU GE B.2; BC GE B.1

PSYC B2 Interpersonal and Group Process Skills
3 units
Recommended: PSYC B1a with a grade of ‘C’ or better. Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Readings and practice in skills for effective functioning in interpersonal and group settings: including active listening, interviewing, group interaction, decision making and managing conflict. Emphasizes the development of skills and ethical considerations specific to human interaction, relating across differences of race, gender, ethnicity, sexual orientation, and social class.
Hours: 54 lecture

PSYC B5 Elementary Statistics for the Behavioral and Social Sciences
5 units
Prerequisites: MATH BD/B70 with a grade of ‘C’ or better and completion of an introductory course: PSYC B1A, SOCI B1, ANTH B1, ECON B1, or PORS B1 (may be taken concurrently).
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Statistics as applied to the behavioral and social sciences. Introduces basic terminology and measurement scales associated with basic statistics used in behavioral and social science research. Emphasizes appropriate application and interpretation of measures of central tendency, variation, and correlation, in the use of parametric and nonparametric statistical hypothesis testing.
Note: Not open to students who have successfully completed BEHS BS.
Hours: 90 lecture
CCS: Liberal Arts/Science
C-ID: SOCI 125
Transferable: UC, CSU and private colleges; IGETC 2.A; CSU GE B.4; BC GE B.2

PSYC B6 Research Methods for the Behavioral and Social Sciences
4 units
Prerequisites: PSYC B1A and PSYC B5 with grades of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Emphasis is on behavioral and social science research processes and methods including: problem definition and hypothesis formation, research design, ethical treatment of participants, data collection and analysis, application of statistical software, and professional report writing. Students will collect and analyze data from both experimental and non-experimental research methods.
Hours: 72 lecture
CCS: Liberal Arts/Science
C-ID: PSY 2 00
Transferable: UC, CSU and private colleges; IGETC 4.I; CSU GE D.9; BC GE B.2

PSYC B20 Social Psychology
3 units
Recommended: SOCI B1 or PSYC B1a with a grade of ‘C’ or better. Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Examines the effects of social influence on individual behavior: including the study of conformity, obedience, persuasion, attitude formation and attitude change. The role of social judgment, aggression, prejudice, prosocial behavior, attraction, and interpersonal relationships are also examined. The scientific method and research strategies in social psychology are employed.
Note: Not open to students who have successfully completed SOCI B20.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: PSY 1 70
Transferable: UC, CSU and private colleges; IGETC 4.I; IGETC 4.J; CSU GE D.9; CSU GE D.10; BC GE D.1; BC GE D.2
PSYC B21 Special Projects in Psychology

1 unit

Recommended: Evaluation by instructor and PSYC B1A with a grade of 'C' or better.

Description: Development of psychological research and/or preparation for teaching within the psychological field. Focus is on empirical methodology and/or assistance with data entry, development and assessment.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

PSYC B30 Human Sexuality

3 units

Recommended: PSYC B1A and Reading - one level prior to transfer and Writing - one level prior to transfer

Description: Emphasis on the biopsychosocial aspects of human sexuality from childhood to old age: Examination of the human sexual system, the sexual act, changing sexual attitudes and behavior; gender identity issues, sexual health, sexual orientation, sexual problems and their treatments, and sexual communication. Exploration of legal and ethical aspects of sexuality.

Hours: 54 lecture

CCS: Liberal Arts/Science

C-ID: PSY 130

Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PSYC B33 Psychology of Personal and Social Adjustment

3 units

Recommended: PSYC B1A with a grade of 'C' or better. Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Emphasis on the biopsychosocial aspects of personal growth and adjustment: Examination of different psychological perspectives and theoretical foundations and how these are applied across a person's life taking into account the influence of culture, gender, ethnicity, historical, cohort, and social-economic status. Psychological disorders and their corresponding treatment protocols are explored.

Hours: 54 lecture

CCS: Liberal Arts/Science

C-ID: PSY 115

Transferable: UC, CSU and private colleges; IGETC 4; CSU GE D.9; CSU GE E; BC GE D.1; BC GE E

PSYC B40 Introduction to Lifespan Psychology

3 units

Recommended: PSYC B1A with a grade of 'C' or better. Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Provides an overview, from a psychological perspective, of human development from conception through death, including biological and environmental influences. Biopsychosocial development and cognitive and physical changes are examined in light of historical and contemporary research and theory for the growing child, adolescent, and adult.

Hours: 54 lecture

CCS: Liberal Arts/Science

C-ID: PSY 180

Transferable: UC, CSU and private colleges; IGETC 4.4; IGETC 4.1; CSU GE D.7; CSU GE D.9; CSU GE E; BC GE D.1

Registered Nursing Courses

NURS B20 Fundamentals of Nursing

4 units

Prerequisites: Appropriate standing in the Associate Degree Nursing Program or evaluation of skills and knowledge by the Program Director.

Description: Level 1 course introduces the concepts of the professional nurse, nursing skills, beginning leadership, health care environment, growth and development across the lifespan, basic physiologic and human needs in health and illness, and providing a safe environment. Beginning critical thinking skills are emphasized, within the framework of the nursing process. Correlated clinical experiences are provided with adult patients who have basic health problems with predictable outcomes. The roles of Provider of Care, Manager of Care, and Member of the Profession are introduced and integrated throughout the course.

Hours: 36 lecture, 108 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

NURS B21 Medical Surgical Nursing 1

5 units

Prerequisites: Appropriate standing in the Associate Degree Nursing Program or evaluation of skills and knowledge by the Program Director.

Description: Level 1 course introduces medical surgical nursing concepts and practices as they relate to adult clients across the lifespan. Using the nursing process as the framework, the student will begin to recognize alterations in function or illness, and formulate age appropriate nursing interventions. Correlated clinical experiences are provided with adult patients who have basic health problems with predictable outcomes. The roles of Provider of Care, Manager of Care, and Member of the Profession are introduced and integrated throughout the course.

Materials Fee: $27.00

Hours: 45 lecture, 135 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

NURS B22 Pharmacology

3 units

Prerequisites: Admission and appropriate standing in the Associate Degree Nursing Program.

Description: This Level 1 course provides the foundation knowledge base related to pharmacology in nursing, including both theoretical and mathematical aspects. Course uses the nursing process as the framework, and addresses the roles of provider of care, manager of care, and member of the profession. Fundamental principles of pharmacodynamics, pharmacokinetics, legal and ethical issues, and nursing responsibilities are covered. Information regarding intravenous drug administration is limited to pharmacokinetics. The drug classes most commonly used in clinical practice are presented. Additionally, information regarding basic mathematical calculations related to medication administration is introduced.

Hours: 54 lecture

CCS: Credit Course

Transferable: CSU and private colleges

NURS B23 Medical Surgical Nursing 2

4.5 units

Prerequisites: Appropriate standing in the Associate Degree Nursing Program or evaluation of skills by the Program Director.

Description: Level 2 course focuses on the development of the knowledge base and skills to care for patients across the lifespan, in
various settings, who have higher acuity and more complex nursing needs. The nursing process is the framework for identification and treatment of health problems, and other concerns. Correlated clinical experiences emphasize clinical decision making, patient care management, including prioritization of care, and development of psychomotor skills. Leadership and management knowledge and skills are integrated in both the theory and clinical components. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated throughout the course.

### NURS B24 Obstetrics - Maternity Nursing

<table>
<thead>
<tr>
<th>Units</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites</td>
<td>Admission and appropriate standing in the Associate Degree Nursing Program</td>
</tr>
<tr>
<td>Description</td>
<td>This Level 2 course provides a foundation for theoretical and technical knowledge base while caring for the contemporary family centered childbirth. Parent/newborn issues are viewed from a nursing process approach for the antepartum, intrapartum, postpartum, and neonatal client. Correlated clinical experiences emphasize clinical decision making, patient care management, including prioritization of care, and development of psychomotor skills. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated in both the theory and the clinical components.</td>
</tr>
<tr>
<td>Hours</td>
<td>27 lecture, 81 laboratory</td>
</tr>
<tr>
<td>CCS</td>
<td>Occupational Education</td>
</tr>
<tr>
<td>Transferable</td>
<td>CSU and private colleges</td>
</tr>
</tbody>
</table>

### NURS B25 Mental Health Psychiatric Nursing

<table>
<thead>
<tr>
<th>Units</th>
<th>3.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites</td>
<td>Admission to the Associate Degree Nursing Program and appropriate standing in the Nursing Program</td>
</tr>
<tr>
<td>Description</td>
<td>This Level 2 course provides an introduction to Psychiatric Mental Health Nursing, using the nursing process as the framework to promote psychosocial integrity within the context of the health illness continuum across the life span. Emphasis is on therapeutic interactions and communications, bio-psychosocial rehabilitation and therapeutic use of self. Correlated clinical experiences will provide opportunities for students to participate in therapeutic activities in a variety of mental health settings. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated in both the theory and the clinical components.</td>
</tr>
<tr>
<td>Hours</td>
<td>36 lecture, 81 laboratory</td>
</tr>
<tr>
<td>CCS</td>
<td>Occupational Education</td>
</tr>
<tr>
<td>Transferable</td>
<td>CSU and private colleges</td>
</tr>
</tbody>
</table>

### NURS B26 Medical Surgical Nursing 3

<table>
<thead>
<tr>
<th>Units</th>
<th>5.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites</td>
<td>Appropriate standing in the Associate Degree Nursing Program or evaluation of skills and knowledge by the Program Director</td>
</tr>
<tr>
<td>Description</td>
<td>Level 3 course focuses on the application of previously learned knowledge as well as the development of more in depth knowledge for adult clients across the lifespan who have more diverse and complex disease states. The nursing process is the framework used in this course to present topics, such as leadership, critical thinking, pharmacology and safety. Correlated clinically experiences are provided with adult patients who have increasingly complex outcomes. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated and analyzed throughout the didactic and clinical experiences.</td>
</tr>
<tr>
<td>Hours</td>
<td>45 lecture, 108 laboratory</td>
</tr>
<tr>
<td>CCS</td>
<td>Occupational Education</td>
</tr>
<tr>
<td>Transferable</td>
<td>CSU and private colleges</td>
</tr>
</tbody>
</table>

### NURS B27 Pediatric Nursing

<table>
<thead>
<tr>
<th>Units</th>
<th>3.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites</td>
<td>Admission to the Associate Degree Nursing Program and appropriate standing in the Nursing Program</td>
</tr>
<tr>
<td>Description</td>
<td>This Level 3 course provides a foundation for pediatric nursing using growth and development concepts as a framework for presenting problems and special concerns of the pediatric client. Communication, anticipatory guidance, response to hospitalization, legal and ethical issues and health care of pediatric clients are discussed. Correlated clinical experiences emphasize clinical decision making, patient care management, including prioritization of care, and development of psychomotor skills. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated in both the theory and the clinical components.</td>
</tr>
<tr>
<td>Hours</td>
<td>27 lecture, 108 laboratory</td>
</tr>
<tr>
<td>CCS</td>
<td>Occupational Education</td>
</tr>
<tr>
<td>Transferable</td>
<td>CSU and private colleges</td>
</tr>
</tbody>
</table>

### NURS B28 Medical Surgical Nursing 4

<table>
<thead>
<tr>
<th>Units</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites</td>
<td>Appropriate standing in the Associate Degree Nursing Program or evaluation of skills and knowledge by the Program Director</td>
</tr>
<tr>
<td>Description</td>
<td>This capstone course focuses on the integration of knowledge and skills, though analysis and synthesis. The nursing process is used as the framework for providing nursing care to clients who have critical and complex medical conditions. Correlated clinical experiences emphasize refinement of clinical decision-making, formulating and revising priorities of care; psychomotor skills and patient care management. The roles of Provider of Care, Manager of Care, and Member of Profession are integrated to promote success in transitioning from student to entry level Registered Nurse.</td>
</tr>
<tr>
<td>Hours</td>
<td>54 lecture, 216 laboratory</td>
</tr>
<tr>
<td>CCS</td>
<td>Occupational Education</td>
</tr>
<tr>
<td>Transferable</td>
<td>CSU and private colleges</td>
</tr>
</tbody>
</table>

### NURS B29 Gerontology - Community Nursing

<table>
<thead>
<tr>
<th>Units</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites</td>
<td>Appropriate standing in the Associate Degree Nursing Program or evaluation of skills and knowledge by the Program Director</td>
</tr>
<tr>
<td>Description</td>
<td>Level 4 course integrates previous medical surgical knowledge and leadership skills as it applies to the aging adult. The Nursing process framework is used to explore the lifestyle and physical changes that occur with aging, apply the process of initiating health referrals and propose the outcome criteria for evaluating the aging individuals response to teaching/learning. Correlated clinical experiences will emphasize the application of interventions that will increase the older adults functional ability. The roles of Provider of Care, Manager of Care, and Member of Profession are integrated throughout the didactic and clinical experiences.</td>
</tr>
<tr>
<td>Hours</td>
<td>18 lecture, 54 laboratory</td>
</tr>
<tr>
<td>CCS</td>
<td>Occupational Education</td>
</tr>
<tr>
<td>Transferable</td>
<td>CSU and private colleges</td>
</tr>
</tbody>
</table>
NURS B33 Advanced Pharmacology

2 units
Prerequisites: Appropriate standing in the Associate Degree Nursing Program.
Description: Advanced pharmacology is the development of the theoretical and technical knowledge base necessary in meeting advanced pharmacological needs of the client in a variety of settings. The course uses the nursing process as the framework and addresses the roles of provider of care manager of care, and member of the profession. Professional issues and concepts for nursing practice related to intravenous therapy are presented including techniques of intravenous therapy and intravenous drug administration. The student will apply the advanced pharmacology principles in the clinical setting in all nursing courses.
Hours: 27 lecture, 27 laboratory
CCS: Occupational Education, Credit - not degree applicable
Transferable: Not degree applicable. Not transferable.

NURS B70 Role Transition: Bridging Nursing Theory to Practice

2 units
Prerequisites: LVN or RN licensure; or Nursing student with evaluation of skills and knowledge by the ADN Program Director.
Description: Level 3 course designed for the LVN who is pursing licensure as an RN or the RN who wants to update skills to re-enter the workforce. The focus is on the development of critical thinking skills, physical assessment, the nursing process, role transition, and clinical skill competencies. The roles of provider of care, manager of care, and member of the profession are integrated throughout the course. The lab correlates with the didactic portion and provides an opportunity for application of concepts in the Nursing Skills laboratory.
Hours: 27 lecture, 27 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

NURS B100 Strategies for Success in a Nursing Program

2 units
Description: Designed to prepare students for successful completion of the nursing program. The students will be given an overview of the program requirements and expectations and they will acquire information and skills that facilitate student success once admitted into the program. Students will also explore nursing career options which will guide the development of their educational plan. Satisfies the 0.5 unit educational planning requirement for graduation from Bakersfield College. Pass/No Pass grading only.
Hours: 36 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

NURS B201A Learning Lab

1 unit
Prerequisites: Enrollment into the ADN or LVN program or nursing student with evaluation of skills and knowledge by the ADN Program Director.
Description: An on-campus laboratory designed for self-paced practice and mastery of nursing skills necessary for providing safe client care throughout the program. This level 1 course provides instructional guidelines to assist students to refine newly acquired skills and develop the competency level expected of entry level nurses. Multimedia and computer assisted instructional materials which support the semester learning objectives are available. Subsequent enrollment in additional semesters will offer the student an opportunity for additional skill and competency development within the subject matter.
Note: Offered credit/no credit grading only. Open entry/open exit. Formerly NURS B201L.
Hours: 54 laboratory
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

NURS B201B Learning Lab

1 unit
Prerequisites: Appropriate standing in the Associate Degree Nursing Program.
Description: An on-campus laboratory designed for self-paced practice and mastery of nursing skills necessary for providing safe client care throughout the program. This level two course builds upon content from level one curriculum and provides instructional guidance to assist students in refining newly acquired skills and to develop the expected competencies for level two students.
Note: open entry/open exit
Hours: 54 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

NURS B201C Learning Lab

1 unit
Prerequisites: Appropriate standing in the Associate Degree Nursing Program.
Description: An on-campus laboratory designed for self-paced practice and mastery of nursing skills necessary for providing safe client care throughout the program. This level three course builds upon content from level two curriculum and provides instructional guidance to assist students to refine newly acquired skills and develop the expected competencies for level two students.
Note: open entry/open exit
Hours: 54 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

NURS B201D Learning Lab

1 unit
Prerequisites: Appropriate standing in the Associate Degree Nursing Program.
Description: An on-campus laboratory designed for self-paced practice and mastery of nursing skills necessary for providing safe client care throughout the program. This level four course builds upon content from all previous levels of the curriculum and provides instructional guidance to assist students to refine newly acquired skills and develop the competency level expected of entry level nurses.
Note: open entry/open exit
Hours: 54 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

Radiologic Technology Courses

RADT B1A Introduction to Radiologic Technology

2 units
Prerequisites: Enrollment into the Radiologic Technology Program and MATH BD/B70.
Description: Orientation to the duties and responsibilities of the Radiologic Technologist. Emphasizes the medical use of radiation, interpersonal communication, ethics, radiation safety and protection, foundations and futures of medicine and radiology,
hospital and departmental operations, professional development and quality assurance. Assistance in understanding program requirements.

**RADT B1B Patient Care**

2 units  
**Prerequisites:** Enrollment into the Radiologic Technology Program and BIOL B18.  
**Description:** Introduction to the basic concepts of patient care in the field of radiography. Instruction and demonstration in aseptic and non-aseptic techniques, infection control, body mechanics, transfer and immobilization techniques, vital signs, oxygen therapy administration, medical emergencies, and contrast media.  
**Hours:** 36 lecture  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**RADT B2A Radiographic Anatomy and Positioning 1**

3 units  
**Prerequisites:** RADT B1a, RADT B1b and RADT B4b with grades of ‘C’ or better.  
**Description:** Instruction and laboratory practice in radiographic positioning of the chest, abdomen, lower and upper extremities, arthrography, bone surveys and bone densitometry with correlated film anatomy.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**RADT B2B Radiographic Anatomy and Positioning 2**

3 units  
**Prerequisites:** RADT B2A, RADT B3A, and RADT B4B with grades of ‘C’ or better. These courses are equivalent to completion of the first semester of the Radiologic Technology Program.  
**Description:** Instruction and laboratory practice in radiographic positioning of the vertebral column, bony thorax, gastrointestinal, biliary and urinary systems with correlated film anatomy.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**RADT B2C Radiographic Anatomy and Positioning 3**

3 units  
**Prerequisites:** Completion of second summer session of Radiologic Technology Program.  
**Description:** Instruction and laboratory practice in radiographic positioning of the head and skull with correlated film anatomy. Introduction to the principles of mammography, angiography and interventional imaging with correlated anatomy.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**RADT B3A Radiographic Principles 1**

3 units  
**Prerequisites:** RADT B1a, B1b, B4a (courses equivalent to completion of the first summer session of the Radiologic Technology Program).  
**Description:** Principles of x-ray tube construction, prime exposure factors, beam restriction and scatter radiation, grids, radiographic film, image receptors and intensifying screens, image processing, sensitometry and digital imaging.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**RADT B3B Radiographic Principles 2**

3 units  
**Prerequisites:** RADT B2A, B3A, B4B, and B12 with grades of ‘C’ or better. These courses are equivalent to completion of the first semester of the Radiologic Technology Program.  
**Description:** Principles of radiographic image analysis including density, contrast, detail and distortion. Principles of exposure control systems, mobile radiography, and fluoroscopy.  
**Hours:** 36 lecture, 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**RADT B4A Introduction to Clinical Education**

1.5 units  
**Prerequisites:** Acceptance into the Radiologic Technology Program. BIOL B18 or BIOL B32 or BIOL B33 with a grade of ‘C’ or better.  
**Description:** Introduction to clinical education includes job shadowing and observation in patient transportation techniques, image processing, patient registration, equipment orientation, general patient care and safety.  
**Materials Fee:** $20.00  
**Hours:** 81 laboratory  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges

**RADT B4B Clinical Education 1**

4 units  
**Prerequisites:** RADT B4A with a grade of ‘C’ or better.  
**Description:** Supervised clinical experiences are provided to develop skills in basic radiographic procedures. Fundamentals of anatomy, positioning and technical factors for imaging quality, radiation safety and protection.  
**Materials Fee:** $20.00  
**Hours:** 240 laboratory  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges

**RADT B5 Radiation Physics**

3 units  
**Prerequisites:** Enrollment in Radiologic Technology Program.  
**Description:** Fundamentals of physics, radiologic quantities and units, the atom, electromagnetic radiation, electricity and magnetism, x-ray equipment, x-ray production, filtration, x-ray interaction with matter, radiation protection and quality assurance.  
**Hours:** 72 lecture, 18 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**RADT B6 Clinical Education 2**

4 units  
**Prerequisites:** RADT B4b with a grade of ‘C’ or better.  
**Description:** Supervised clinical experiences are provided to perfect skills in a variety of basic radiographic procedures. Case studies of radiographic procedures discussing anatomy, pathology, positioning and technical factors of image quality are analyzed on a case-by-case basis.  
**Materials Fee:** $20.00  
**Hours:** 18 lecture, 222 laboratory
RADT B7 Clinical Education 3

6.5 units
Prerequisites: RADT B2b and RADT B3b and RADT B6 with grades of ‘C’ or better.
Description: Supervised clinical experiences provided to perfect skills in a variety of radiographic procedures. Case studies of radiographic procedures discussing the fundamentals of anatomy, positioning and technical factors of image quality are analyzed. Extension of radiographic procedures demonstrated in RADT B2a, B2b.
Materials Fee: $20.00
Hours: 18 lecture, 302 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

RADT B9A Sectional Anatomy for Medical Imaging

3 units
Prerequisites: Acceptance into the radiologic technology program.
Description: Sectional anatomy of the head, spine, thorax, abdomen and pelvis. Emphasis on computed tomography and magnetic resonance images and other imaging modalities using sectional anatomy.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

RADT B10 Clinical Education 4

6.5 units
Prerequisites: RADT B7 with a grade of ‘C’ or better.
Description: Supervised clinical experiences are provided in advanced radiographic and fluoroscopic procedures. Case studies of radiographic procedures discussing anatomy, pathology, positioning and technical factors of image quality are analyzed on a case-by-case basis.
Materials Fee: $20.00
Hours: 18 lecture, 342 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

RADT B11 Radiographic Pathology

2 units
Prerequisites: RADT B2c and RADT B5, and RADT B10 with grades of ‘C’ or better.
Hours: 36 lecture
CCS: Credit Course
Transferable: CSU and private colleges

RADT B12 Radiobiology and Radiation Protection

2 units
Prerequisites: RADT B1a, B1b, B4a (courses equivalent to completion of the first summer session of the Radiologic Technology Program).
Description: Fundamental concepts of radiobiology including interactions of matter, biological effects on living cells and organ systems, radiation quantities and units, filtration, radiation monitoring, ALARA concepts and radiation protection for occupational and non-occupational populations. Review of current related California and Federal health and safety codes.
Hours: 36 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

RADT B13 Clinical Education 5

6 units
Prerequisites: RADT B10 with a grade of ‘C’ or better.
Description: Supervised clinical experiences are provided to perfect skills in advanced radiographic procedures. Designed to prepare the student for program completion and certification examinations.
Materials Fee: $20.00
Hours: 360 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

RADT B30 Principles of Venipuncture

1 unit
Prerequisites: Current Cardiopulmonary Resuscitation, Healthcare Provider card.
Description: Basic instruction, practice and competency of venipuncture methods and procedures for the administration of contrast agents. Routes of administration, safety, basic pharmacology, dosage calculations and emergency procedures. Course meets California Health and Safety Code, Section 106985, pertaining to Certified Radiologic Technologists performing venipuncture.
Hours: 18 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

Sociology Courses

SOCI B1 Introduction to Sociology

3 units
Recommended: Reading - one level prior to transfer; Writing - one level prior to transfer.
Description: Scientific study of human social behavior: assumes that external forces shape individual behavior. Focus of this perspective is to identify, explain, and interpret these forces. As such, essential concepts, research methods, social institutions, and applications essential to the sociological perspective are examined.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: SOCI 110
Transferable: UC, CSU and private colleges; IGETC 4; CSU GE D.10; BC GE D.2

SOCI B2 Problems of Modern Society

3 units
Recommended: Reading - one level prior to transfer; Writing - one level prior to transfer.
Description: Studies the social problems of modern society, especially in the United States, in order to arrive at alternate methods of identification and measurement of social problems. An attempt to gain understanding by judging the probable results of proposed changes. Problems include deviant behavior, including crime and delinquency, alcoholism, family violence, deviant subcultures, problems of man in industrial society, including the industrial workers and white collar workers and also stress and mental illness.
Hours: 54 lecture
CCS: Liberal Arts/Science
**SOCL B20 Social Psychology**  
3 units  
**Recommended:** PSYC B1A or SOCI B1 with a grade of ‘C’ or better. Reading - one level prior to transfer; Writing - one level prior to transfer.  
**Description:** Examines the effects of social influence on individual behavior: This includes the study of conformity, compliance, obedience, persuasion, attitude formation and attitude change. The role of social judgment, aggression, prejudice, prosocial behavior, attraction, and interpersonal relationships are also examined. The scientific method and research strategies in social psychology are employed.  
**Note:** Not open to students who have successfully completed PSYC B20.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**C-ID:** PSY 170  
**Transferable:** UC, CSU and private colleges; IGETC 4.I; IGETC 4.J; CSU GE D.9; CSU GE D.10; BC GE D.1; BC GE D.2

**SOCL B21 Special Projects/Sociology**  
1 unit  
**Recommended:** The completion of at least one introductory level sociology course or higher and instructor approval. Reading - one level prior to transfer; Writing - one level prior to transfer.  
**Description:** Student development and completion of an original sociological research project and/or provide assistance with an existing research project. Course may also include student presentation of research findings.  
**Hours:** 18 lecture  
**CCS:** Liberal Arts/Science.  
**Transferable:** CSU and private colleges

**SOCL B28 Introduction to Gender**  
3 units  
**Recommended:** Reading - one level prior to transfer; Writing - one level prior to transfer.  
**Description:** Sociological analysis of the social construction of masculinity and femininity historically and cross-culturally. It examines the debate on sex and gender and analyzes the impact of economic and political change on gender expectation and practices. It focuses macro-analyses on how institutions shape gender and micro-analyses on how individuals are socialized and how they practice gender.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**C-ID:** SOCI 140  
**Transferable:** UC, CSU and private colleges; IGETC 4.I; CSU GE D.3; CSU GE D.4; CSU GE D.10; CSU GE E; BC GE D.2

**SOCL B36 Sociology of the Chicano**  
3 units  
**Recommended:** Reading - one level prior to transfer; Writing - one level prior to transfer.  
**Description:** Historical review of the sociocultural and cultural characteristics of Chicanos in the United States. Focus is on the inter-relationships of Chicanos and the society including their immigration history, acculturation, assimilation, minority status and their cultural change, by generation status. Not open to students who have taken the equivalent course, CHST B36.  
**Hours:** 54 lecture

**SOCL B45 Minority Relations**  
3 units  
**Recommended:** SOCI B1 with a grade of ‘C’ or better. Reading - one level prior to transfer; Writing - one level prior to transfer.  
**Description:** Examination of the relationships among dominant and minority groups and related concepts and theories: Review of the immigration of Northwestern Europeans, Southeastern Europeans, Asians, and North and South Americans, and resultant social patterns reflecting their acculturation and structural assimilation. Those experiences unique to African Americans, women, and religious groups are also included. Not open to students who have taken the equivalent course, HMSV B45.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**C-ID:** SOCI 150  
**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.3; CSU GE D.10; BC GE D.2

**Spanish Courses**

**SPAN B1 Elementary Spanish I**  
4 units  
**Recommended:** Writing - one level prior to transfer and Reading - one level prior to Transfer.  
**Description:** Introduction to Spanish language and culture by means of a program that involves video, audio, and print media in an integrated method of planned immersion. Students will develop language skills that include reading, writing, listening comprehension and oral production.  
**Note:** Not open to students who have taken the equivalent course, SPAN B1AB.  
**Hours:** 72 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; IGETC 6.A; CSU GE C.2; BC GE C.1; BC GE C.2

**SPAN B2 Elementary Spanish II**  
4 units  
**Prerequisite:** SPAN B1 or SPAN B1AB with a grade of ‘C’ or better.  
**Recommended:** Writing - one level prior to transfer and Reading - one level prior to transfer.  
**Description:** This course continues using the “planned immersion approach” begun in SPAN B1. It explores new tenses and moods of the language and continues vocabulary enhancement, development
of oral production and writing, integrating aspects of the Spanish culture.

Note: Not open to who have taken the equivalent course, SPAN B2AB.

Hours: 72 lecture

CСS: Credit Course

Transferable: UC, CSU and private colleges; IGETC 6.A; CSU GE C.2; BC GE C.2

SPAN B3 Intermediate Spanish I

4 units

Prerequisite: SPAN B2 or SPAN B2AB with a grade of 'C' or better (or Native Speaker or Equivalent).

Recommended: Reading - one level prior to transfer.

Description: Intensive grammar review of the Spanish language, supplemented with reading selections of Spanish and Latin American authors with the purpose of nourishing an understanding of the Spanish culture.

Note: Not open to students who have successfully completed SPAN B35.

Hours: 72 lecture

CСS: Liberal Arts/Science

Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

SPAN B4 Intermediate Spanish II

4 units

Prerequisite: SPAN B3 or SPAN B35 with a grade of 'C' or better.

Description: Continued advanced readings from Spanish and Latin American authors, and continued intensive grammar review of the Spanish language preparing students for upper division work in literature and language. Note: Not open to students who taken the equivalent course, SPAN B36.

Hours: 72 lecture

CСS: Liberal Arts/Science

Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

SPAN B35 Spanish for Heritage Speakers I

4 units

Recommended: Heritage speaker or near heritage speaker abilities and skills.

Description: This course is designed for students whose native language is Spanish but need to improve their writing, grammar, vocabulary, and spelling skills. Strong emphasis will be placed on punctuation, accent rules, composition, grammar, vocabulary and reading. The course is taught entirely in Spanish.

Note: Not open to students who taken the equivalent course, SPAN B3.

Hours: 72 lecture

CСS: Credit Course

Transferable: UC, CSU and private colleges; IGETC 6.A; CSU GE C.2; BC GE C.2

SPAN B36 Spanish for Heritage Speakers II

4 units

Prerequisite: SPAN B35 with a grade of 'C' or better.

Description: This course is a continuation of Spanish B35 and is designed for students whose native language is Spanish but need to improve their academic skills in the language. This course will focus on advanced grammar concepts, subjunctive tenses, sequence of tenses, extensive writing and reading. The writing and reading skills will be strengthened as well as vocabulary building. The course is taught entirely in Spanish.

Note: Not open to students who taken the equivalent course, SPAN B4, or who have taken SPAN B10.

Hours: 72 lecture

CСS: Credit Course

Transferable: UC, CSU and private colleges; IGETC 6.A; CSU GE C.2

Special Studies Courses

SPST B48 Special Studies: Honors

0.5-2 units

Description: Study and projects planned to provide an enriched academic experience for students not being served in regularly scheduled courses. It is planned to meet the needs of superior students whose background and interests indicate that they could profit from study and projects in a subject area. The course will be designed according to the subject field’s studies, i.e. Special Studies/German. Field trips may be required.

Hours: 9 hours for .5 unit

CСS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

SPST B49 Special Studies: Honors

0.5-2 units

Description: Seminars and/or individual conferences by arrangement. Independent, individual study planned to provide an enriched academic experience for students not being served in regularly scheduled courses. It is planned to meet the needs of superior students whose background and interests indicate that they could profit from individual study in a subject area. The course will be designed according to the subject field studies, i.e. Special Studies/German. Field trips may be required.

Hours: 9 hours for .5 unit

CСS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

SPST B49L Special Studies Lab: Honors

1-2 units

Description: Seminars and/or individual conference by arrangement. Independent, individual study planned to provide an enriched academic experience for students not being served in regularly scheduled courses. It is planned to meet the needs of superior students whose background and interests indicate that they could profit from individual study in a subject area. The course will be designed according to the subject field studies, i.e. Special Studies/German. Field trips may be required.

Hours: 54 hours for 1 unit

CСS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

SPST B201 Special Projects and Studies

1-3 units

Description: Special projects of studies in an area not being served by regularly scheduled courses. Students are required to meet periodically with a faculty advisor to review progress in the study program. Field trips may be required.

Hours: 18 lecture hours for unit (18-54)

CСS: Liberal Arts/Science

Transferable: Not degree applicable. Not transferable.

SPST B201L Special Projects and Studies

1-3 units

Description: Special projects of studies in an area not being served by regularly scheduled courses. The student is required to meet periodically with faculty advisor and/or department chair to review
progress in the study program. Maximum 6 units. Field trips may be required.

**Hours:** 54 hours for 1 unit

**CCS:** Liberal Arts/Science

**Transferable:** Not degree applicable. Not transferable.

**Student Development Courses**

**STDV B1 Educational Planning**

*0.5 unit*

**Recommended:** Reading - one level prior to transfer.

**Description:** Designed to assist students in understanding college requirements and to help them in making educational plans. Required for the associate degree. Satisfies the 0.5 units educational planning graduation requirement for graduation from Bakersfield College.

**Note:** Required for both the AA and AS degrees.

**Hours:** 9 lecture

**CCS:** Liberal Arts/Science

**Transferable:** CSU and private colleges

**STDV B2 Career Decision Making/Planning**

*1.5 units*

**Recommended:** Reading - one level prior to transfer.

**Description:** An introduction to career search and strategies. Provides an overview of the career decision-making process including goal setting, decision making and research in the job market. Satisfies the 0.5 educational planning graduation requirement for graduation from Bakersfield College.

**Hours:** 27 lecture

**CCS:** Liberal Arts/Science

**Transferable:** CSU and private colleges

**STDV B3 Career, Life, and Educational Planning**

*3 units*

**Description:** This course guides students through a decision-making process that will help them envision and plan for a future that is productive, achievable, and stimulating. The culmination of this process is the development of a career and educational plan that will create a pathway for students to reach their career and academic goals. Critical thinking skills will be utilized through a systematic approach to career development by examining values, interests, skills, life roles, personality types, personal self-management, decision-making and goal-setting throughout the life span. Satisfies the 0.5 unit educational planning graduation requirement for graduation from Bakersfield College.

**Hours:** 54 lecture

**CCS:** Credit Course

**Transferable:** CSU and private colleges; CSU GE C.1; BC GE C.1

**STDV B4 International Student Orientation and Educational Planning**

*1 unit*

**Recommended:** Reading - one level prior to transfer.

**Description:** Designed to give international students a practical training in studying effectively, the techniques for survival within the college setting, cultural adjustment cycle, immigration regulations and making their educational plan for college studies. Satisfies 0.5 unit educational planning requirement for graduation from Bakersfield College.

**Hours:** 54 lecture

**Transferable:** Not degree applicable. Not transferable.

**Technical Mathematics Courses**

**TECM B52 Industrial Math and Quality Control**

*3 units*

**Recommended:** Reading - two levels prior to transfer.

**Description:** Elementary course in mathematics commonly used in industry. Topics covered include a review of arithmetic, percentages, elementary algebra, and geometric forms. Students will also be introduced to precision measurement and the application of statistical quality control (SQC) in industry.

**Hours:** 54 lecture

**CCS:** Credit Course

**Transferable:** Not degree applicable. Not transferable.

**Theatre Arts Courses**

**THEA B1 Introduction to Acting**

*3 units*

**Recommended:** Reading - one level prior to transfer.

**Description:** Designed for either theatre majors, or, non-majors. Emphasizes mastery of self as the key to creative process of communication and performance through improvisation, theatre games, concentration, pantomime, etc.

**Hours:** 54 lecture

**CCS:** Liberal Arts/Science

**C-ID:** THTR 151

**Transferable:** UC, CSU and private colleges; CSU GE C.1; BC GE C.1

**THEA B2A Elements of Acting**

*3 units*

**Prerequisites:** THEA B1 with a grade of ‘C’ or better or by audition.

**Recommended:** Reading - one level prior to transfer.

**Description:** This course is an exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process as it relates to scripted materials such as monologues, scenes and full plays.

**Hours:** 54 lecture
THEA B2B Elements of Acting
3 units
Prerequisites: THEA B1 and THEA B2A with grades of ‘C’ or better or by audition.
Recommended: Reading - one level prior to transfer.
Description: This course is an exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through scripted materials such as plays, scenes, and monologues.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: THTR 152
Transferable: UC, CSU and private colleges; CSU GE C.1; BC GE C.1

THEA B12A Introduction to Shakespeare
3 units
Recommended: Reading - one level prior to transfer.
Description: Examination of Shakespeare’s use of verse and prose, imagery, language, developing style, themes, and character development as applied to production concerns. Emphasis is the reading of four representative plays.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

THEA B14 Introduction to Stage Costume
3 units
Description: Students will study costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges

THEA B16 Stagecraft
3 units
Description: Basic set construction, scenic painting, construction materials, stage properties, tools and equipment, special effects, lighting and sound, stage management.
Hours: 54 lecture
CCS: Credit Course
C-ID: THTR 171
Transferable: UC, CSU and private colleges

THEA B20 Introduction to Theatre
3 units
Recommended: Reading and Writing - one level prior to transfer.
Description: This class introduces the student to the fundamental concepts and elements of theatre, drama and entertainment by exploring their origins, history, and functions in society as they are experienced and used by individuals.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: THTR 111
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

THEA B27 Acting Theatre Laboratory
1-3 units
Prerequisites: Audition.
Recommended: Reading - one level prior to transfer.
Description: The rehearsal and production of both main stage and experimental theatre dramas. Theatre activity for the beginner or expert in acting.
Hours: 54 hours for 1 unit
Repeat: 3
CCS: Liberal Arts/Science
C-ID: THTR 191
Transferable: UC, CSU and private colleges; BC GE C.1

THEA B28 Technical Theatre Laboratory
1 unit
Recommended: Reading - one level prior to transfer.
Description: Participation in set construction, lighting, makeup, costume, properties, or any other technical area of theatrical productions.
Hours: 54 laboratory
Repeat: 3
CCS: Credit Course
C-ID: THTR 192
Transferable: UC, CSU and private colleges

THEA B31 Introduction to Film Studies
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Designed to give the student a heightened awareness and appreciation of films through viewing, discussing and writing about them. The critical viewing and discussion of film will provide the basis for the development of aesthetic appreciation.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

THEA B32 Contemporary Film Studies
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Designed to give the student a heightened awareness and appreciation of genre film categories through viewing various genre films, discussing and writing about them.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

Vocational Nursing Courses
VNRS B1 Nursing Fundamentals
3 units
Prerequisites: Admission to the Vocational Nursing Program.
Corequisite: VNRS B1LV
Description: Provides a foundation of basic nursing arts and sciences necessary for the practice of nursing. Professional issues and trends of nursing are identified along with the development of an understanding of the nursing process. Concepts of the nurse, client and health care environment, professional nursing and nursing skills, growth and development of the adult, human needs in health and illness, basic physiological needs, and providing a safe environment are presented.
VNRS B1G Gerontological Nursing
1 unit
Prerequisites: Admission to the Vocational Nursing Program.
Corequisite: VNRS B1LV
Description: Provides a foundation of basic gerontological nursing using demographics, theories of aging and growth and development concepts as a framework for presenting health problems and special concerns of the elderly. Legal and ethical issues, economics, and healthcare of older adults using a nursing process approach are discussed.
Hours: 18 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

VNRS B1LV Vocational Nursing Laboratory
6 units
Prerequisites: Admission to the Vocational Nursing Program and concurrent enrollment in VNRS B1 and VNRS B75 and VNRS B1G.
Description: Laboratory course correlated with the first semester theory course in the Vocational Nursing Program. The major focus will be on learning fundamental nursing skills with application in geriatric and medical surgical settings. Incorporated is the nursing process which utilizes the skills of assessment, planning, intervention and evaluation providing a systemic approach to nursing practice.
Hours: 324 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

VNRS B6 Pediatric Nursing
1.5 units
Prerequisites: Appropriate standing in the Vocational Nursing Program.
Corequisite: VNRS B97LV
Description: Provides a foundation for pediatric nursing using growth and development concepts as a framework for presenting health problems and special concerns of the pediatric client. Communication, anticipatory guidance, response to hospitalization, legal and ethical issues and health care of pediatric clients are discussed. Appropriate standing in the VN Program and concurrent enrollment in VNRS B97LV are required.
Hours: 27 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

VNRS B7 Parent/Newborn Nursing
1.5 units
Prerequisites: Appropriate Standing in the Vocational Nursing Program
Corequisite: VNRS B87LV
Description: This course provides an overview of contemporary family-centered childbirth, incorporating the self-care movement and changing roles of the nurse. Legal and ethical issues of maternal/newborn nursing are discussed. Coverage of maternal/newborn nursing uses a nursing process approach for antepartum, intrapartum, postpartum, and neonatal care.
Hours: 27 lecture
CCS: Liberal Arts/Science
Transferable: CSU and private colleges

VNRS B50B Advanced Pharmacology, Part B
0.5 unit
Prerequisites: Appropriate standing in the VN Program and VNRS B31AB with a grade of “C” or better.
Description: Designed to prepare the vocational nurse to function safely when administering medications to a group of clients. Students will be administering medications to more complex clients in the laboratory setting. Expounds on principles learned in NURS B31AB.
Hours: 9 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

VNRS B67 Principles of Pharmacology
2 units
Corequisites: VNRS B68 and VNRS B69 and VNRS B69L and appropriate standing in the Vocational Nursing Program.
Description: This course is designed to prepare the vocational nurse to function safely when administering medication. Using the nursing process as the framework, concepts of pharmacology, calculations, and nursing considerations that pertain to the safe administration of medication are presented.
Hours: 36 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

VNRS B68 Basic Medical Surgical Nursing Practice
3 units
Corequisites: VNRS B67 and VNRS B69 and VNRS B69L and appropriate standing in the Vocational Nursing Program.
Description: This Vocational Nursing theory course focuses on the application of the nursing process in common health/illness situations. Using the nursing process as a framework, emphasis is placed on the role of the vocational nurse as a provider of care in assisting the adult and geriatric patient with chronic disorders affecting the GI, GU endocrine, integumentary systems. Topics in basic nutrition are also presented including an overview of basic nutrients, basic therapeutic diets, and patient education specific to chronic conditions. Basic mental health concepts are introduced. Concepts in this course are correlated with the clinical settings presented in Foundations for Vocational Nursing Practice Lab.
Hours: 54 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

VNRS B69 Foundations for Vocational Nursing Practice
3 units
Corequisites: VNRS B67 and VNRS B68 and VNRS B69L and appropriate standing in the Vocational Nursing Program.
Description: This Vocational Nursing theory course begins with an introduction to the roles of the vocational nurse and provides a foundation of basic nursing arts and sciences necessary for the practice of nursing including concepts specific to the gerontological client. Using the nursing process as a framework, concepts of professionalism, growth and development, safety, and health concerns for the adult and geriatric population are discussed. Legal and ethical considerations, cultural diversity, the nursing process, and basic data collection are included as theory topics along with the presentation of basic mental health concepts applicable to the geriatric client. Fundamental nursing skills are discussed in detail with concurrent hands-on practice of skills.
Hours: 54 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.
**VNRS B69L Foundations for Vocational Nursing Practice Lab**

*6 units*

**Corequisites:** VNRS B67 and VNRS B68 and VNRS B69 and appropriate standing in the Vocational Nursing Program.

**Description:** This Vocational Nursing laboratory course focuses on the provider of care role of the vocational nurse in assisting the adult and geriatric patient to meet essential activities of daily living. A beginning knowledge of nursing techniques and medication administration with an understanding of the principles, rationales, and procedures for each technique is emphasized. Using the nursing process as a framework, students will provide basic care for adult and geriatric patients with various uncomplicated diseases and disorders who require nursing intervention to meet basic human needs. Basic communication techniques for the adult and geriatric client with mental health disorders are integrated throughout. This clinical course includes experiences primarily in long term care clinical settings.

**Materials Fee:** $27.00

**Hours:** 324 laboratory

**CCS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.

**VNRS B75 Medical Surgical Nursing 1**

*3.5 units*

**Prerequisites:** Appropriate standing in Vocational Nursing Program.

**Corequisite:** VNRS B1LV

**Description:** This course provides a study of etiology, pathophysiology, assessment, planning and evaluation of adult clients with gastrointestinal, skin, eye, ear, upper airway, nutritional genitourinary, and fluid and electrolyte disorders. Integrated into course are beginning concepts of the therapeutic, use of drugs, diet therapy, and the physiological and psychosocial problems. Students are required to initiate critical thinking skills when dealing with clients and families. Concepts and skills in course are correlated in laboratory settings presented in the corresponding course VNRS B1LV.

**Hours:** 63 lecture

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**VNRS B79 Intermediate Medical Surgical Nursing**

*9 units*

**Prerequisites:** Appropriate Standing in the Vocational Nursing Program and concurrent enrollment in VNRS B79L.

**Description:** This Vocational Nursing theory course uses the nursing process as a framework to guide the development of critical thinking skills used to determine nursing actions for adult and geriatric patients with cancer and conditions affecting the cardiovascular, lymphatic, musculoskeletal, endocrine, and respiratory system. The role of the vocational nurse as a provider of care and manager of care related to leadership, supervision, and rehabilitation are also discussed. Care of the medical surgical patient with mental health disorders will be integrated. Concepts in this course will be correlated in the various laboratory settings presented in VNRS B79L (Intermediate Medical Surgical Lab).

**Hours:** 162 lecture

**CCS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.

**VNRS B79L Intermediate Medical Surgical Nursing Lab**

*6 units*

**Prerequisites:** Appropriate Standing in the Vocational Nursing Program and concurrent enrollment in VNRS B79.

**Description:** This Vocational Nursing laboratory course concentrates on the application of the nursing process and the continued development of the manager and provider of care roles for adult medical-surgical patients from various cultural and social backgrounds. Clinical experiences build on the basics of the first semester as students perform more advanced skills when providing nursing care to patients. Incorporated into the course is the utilization of intermediate assessment, planning, intervention and evaluation under clinical supervision. This clinical course includes acute care and rehabilitation settings which correlate with the topics presented in VNRS B79 (Intermediate Medical Surgical).
placed on developing critical thinking skills. Concepts and skills in this course will be correlated in the various laboratory settings presented in the corresponding course VNRS B85LV.

**Note:** Not open to students who have taken VNRS B80.

**Hours:** 45 lecture

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

---

**VNRS B85LV Medical Surgical Nursing II – Clinical Laboratory**

1.5 units

**Prerequisites:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B85

**Description:** Lab course which is correlated with the corresponding medical surgical course in the Vocational Nursing Program. Focus of course is team leading, time management in caring for two clients, providing medications to a group of clients, and improving on skills learned in Medical Surgical Nursing I. Incorporated into this course is the utilization of intermediate assessment, planning, intervention and evaluation under clinical supervision.

**Hours:** 81 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

---

**VNRS B86 Medical Surgical Nursing III**

4 units

**Prerequisites:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B86LV

**Description:** Provides a study of etiology, pathophysiology, assessment, planning and evaluation of adult clients with musculoskeletal, connective tissue, and endocrine disorders. Knowledge imparted builds on nursing theory from the previous medical surgical nursing courses (VNRS B75, VNRS B85). Emphasis will be placed on developing critical thinking skills. Concepts and skills in this course will be correlated in the various laboratory settings presented in the corresponding course VNRS B86LV.

**Hours:** 72 lecture

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

---

**VNRS B86LV Medical Surgical Nursing III – Clinical Laboratory**

3 units

**Prerequisites:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B86

**Description:** Laboratory course correlated with the corresponding medical surgical course in the Vocational Nursing Program. Focus is team leading, time management in caring for two clients, providing medications to a group of clients and in improving on skills learned in Medical Surgical Nursing II. Incorporated into course is the utilization of intermediate assessment, planning, intervention and evaluation under clinical supervision.

**Hours:** 162 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

---

**VNRS B87LV Maternal Newborn / Clinical Laboratory**

1.5 units

**Prerequisites:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B7

**Description:** This laboratory course is correlated with the corresponding maternal-newborn course in the Vocational Nursing Program. Incorporated is the nursing process which utilizes the skills of assessment, planning, intervention and evaluation providing a systemic approach to nursing practice.

**Hours:** 81 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

---

**VNRS B88 Maternal Child Nursing**

3 units

**Prerequisite:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B88L

**Description:** This Vocational Nursing theory course provides an overview of contemporary family-centered childbirth and a foundation for pediatric nursing using growth and development concepts as a framework for presenting health problems and special concerns of the pediatric client. This course focuses on the provider and manager of care role for the vocational nurse in assisting families experiencing common health/illness situations associated with their age group. Using the nursing process and developmental theory as a framework, topics and nursing responsibilities for the normal aspects of the child-bearing family and the pediatric client will be discussed. The course concepts will be correlated with the laboratory setting in VNRS B88L (Maternal/Child Nursing lab).

**Hours:** 54 lecture

**CCS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.

---

**VNRS B88L Maternal Child Nursing Lab**

3 units

**Prerequisite:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B88

**Description:** This Vocational Nursing laboratory course is correlated with the corresponding Maternal/Child Theory course in the Vocational Nursing Program. Using the nursing process and developmental theory as a framework to guide the plan of care, students will provide care for the childbearing family and the pediatric client. This laboratory course focuses on the advanced application of the nursing process in the care of multiple patients from various ethnic and social backgrounds. Clinical experiences will provide opportunities for the demonstration of leadership skills, capabilities, and knowledge essential to the role of the vocational nurse as a member of the health-care team and supervisor of other vocational nurses and unlicensed health care givers. This clinical course includes setting in acute care, clinics, and Physician offices for obstetric and pediatric patients. Clinical content correlates with VNRS B88 (Maternal/Child Nursing).

**Hours:** 162 laboratory

**CCS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.

---

**VNRS B89 Advanced Medical Surgical Nursing**

3.5 units

**Prerequisite:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B89L

**Description:** Using the nursing process as a framework, this Vocational Nursing theory course reinforces the critical thinking skills necessary to care for adult and geriatric patients with acute and complex medical surgical disease states, including multi-system involvement. The care for the patient with increasingly complex
mental health conditions will be explored. Role expectations related to being a member of the profession are also discussed. Knowledge of nursing principles and leadership/management techniques to determine and prioritize nursing actions will be correlated with the laboratory setting presented in VNRS 89L (Advanced Medical Surgical Nursing Lab).

**VNRS B89L Advanced Medical Surgical Nursing Lab**  
3 units  
**Prerequisite:** Appropriate standing in the Vocational Nursing Program.  
**Corequisite:** VNRS B89  
**Description:** This Vocational Nursing laboratory course focuses on the advanced application of the nursing process in the care of multiple patients from various ethnic and social backgrounds. Clinical experiences will provide opportunities for the demonstration of leadership skills, capabilities, and knowledge essential to the role of the vocational nurse as a member of the health-care team and supervisor of other vocational nurses and unlicensed health care givers. Application of critical thinking skills and the utilization of the nursing process in clinical decision making will be assessed. Students will provide care for patients with acute medical surgical illness and families experiencing common health/illness situations. This clinical course includes acute and sub-acute settings which correlate with topics in VNRS 89 (Advanced Medical Surgical Nursing) and VNRS B83 (Critical Thinking and Leadership for the vocational nurse).

**Materials Fee:** $27.00  
**Hours:** 162 laboratory  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

**VNRS B95 Medical Surgical Nursing 4**  
4 units  
**Prerequisite:** Limitation on enrollment. Appropriate standing in the Vocational Nursing Program.  
**Corequisite:** VNRS B95LV  
**Description:** Provides a student of etiology, pathophysiology, assessment, planning and evaluation of adult clients with more complex and critical medical surgical problems and disease states, including multi-system involvement and trauma. Emphasis placed on advanced medical skills. Concepts and skills in this course will be correlated in the various clinical settings presented in the Medical-Surgical Laboratory.

**Hours:** 72 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

**VNRS B95LV Medical Surgical Nursing 4 – Clinical Laboratory**  
2.5 units  
**Prerequisite:** Limitation on enrollment. Appropriate standing in Vocational Nursing Program.  
**Corequisite:** VNRS B95  
**Description:** Laboratory course which is correlated with the corresponding medical surgical course in the Vocational Nursing Program. Focus is team leading, time management in caring for two clients, providing medications to a group of clients and improving on skills learned in Medical Surgical Nursing III. Also covers the utilization of intermediate assessment, planning, intervention and evaluation under clinical supervision.

**Hours:** 135 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

**VNRS B96 Medical Surgical Nursing 5**  
2 units  
**Prerequisite:** Limitation on enrollment. Appropriate standing in Vocational Nursing Program  
**Corequisite:** VNRS B96LV  
**Description:** Provides a study of etiology, pathophysiology, assessment, planning and evaluation of adult clients with more complex and critical medical surgical problems and disease states, including multi-system involvement and trauma. Emphasis placed on advanced medical skills. Concepts and skills in this course will be correlated in the various clinical settings presented in the Medical-Surgical Laboratory.

**Hours:** 36 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

**VNRS B96LV Medical Surgical Nursing 5/Laboratory**  
2 units  
**Prerequisite:** Limitation on enrollment. Appropriate standing in the Vocational Nursing Program.  
**Corequisite:** VNRS B96  
**Description:** Laboratory course which is correlated with the corresponding medical surgical course in the Vocational Nursing Program. Focus is team leading, time management in caring for two clients, providing medications to a group of clients and improving on skills learned in Medical Surgical Nursing IV. Incorporated into course is the utilization of intermediate assessment, planning, intervention and evaluation under clinical supervision.

**Hours:** 108 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

**VNRS B97LV Pediatrics – Clinical Laboratory**  
1.5 units  
**Prerequisite:** Appropriate standing in Vocational Nursing Program  
**Corequisite:** VNRS B6  
**Description:** Laboratory course which is correlated with the corresponding pediatric course in the Vocational Nursing Program. Incorporates the nursing process which utilizes the skills of assessment, planning, intervention and evaluation providing a system approach to nursing practice.

**Hours:** 81 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

**Water Technology Courses**

**WTRT B51 Basic Water Treatment**  
3 units  
**Description:** Prepares the beginning level student for the lower level California Department of Health Services (CA/DHS) Water Treatment Operator Certification (grades 1 and 2), and to inform the interested public in the science and technology involved in the purification of drinking water.

**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.
**WRTT B52 Basic Water Distribution**  
3 units  
Description: Prepares the beginning level student for the lower level CA/NV AWWA (grade 1) and/or CA/DHS (grades 1 and 2) Water Distribution Operator Certification and to inform the interested public in the science and technology involved in the purification of drinking water.  
Hours: 54 lecture  
CCS: Occupational Education  
Transferable: Not degree applicable. Not transferable.

**WRTT B53 Water and Wastewater Analysis**  
3 units  
Recommended: High school chemistry or job related experience. Reading - one level prior to transfer.  
Description: Prepares the student to take California SWRCB, grades 1 and 2, Waste Water Operation exam. Covers environmental influences, composition of natural water, analysis, interpretation of results and application to treatment problems.  
Hours: 54 lecture  
CCS: Occupational Education  
Transferable: Associate Degree only. Not transferable.

**WRTT B61 Advanced Water Treatment**  
3 units  
Prerequisites: Completion of Basic H20 treatment or comparable course.  
Description: Prepares the advanced level student for upper level California Department of Health Services (CA/DHS) Water Treatment Operator Certification (grades 3 through 5) and to inform the interested public in the science and technology involved in the purification of drinking water. Field trips required.  
Hours: 54 lecture  
CCS: Occupational Education  
Transferable: Associate Degree only. Not transferable.

**WRTT B62 Advanced Water Distribution**  
3 units  
Prerequisites: Must have completed a basic water distribution course acceptable to Bakersfield College or the instructor, with a minimum of 36 hours.  
Description: Prepares the advanced level student for upper level CA/NV AWWA (grades 2 through 4) and/or CA/DHS (grades 3 through 5) Water Distribution Operator Certification and to inform the interested public in the science and technology involved in the distribution of drinking water.  
Hours: 54 lecture  
CCS: Occupational Education  
Transferable: Associate Degree only. Not transferable.

**Welding Courses**

**WELD B1A Introduction to Oxygen Acetylene Welding and Cutting**  
2 units  
Recommended: Reading - one level prior to transfer.  
Description: Properties and characteristics of metals. Safety, theory, and practical experience in oxy-acetylene welding, cutting, and joint design, codes and weld testing. Not open to students who have taken WELD B1ab.  
Note: Elective credit only.  
Materials Fee: $30.00 for project materials.  
Hours: 27 lecture, 27 laboratory

**WELD B1B Introduction to the Welding Processes**  
2 units  
Recommended: Reading - one level prior to transfer.  
Description: Properties and characteristics of metals and a survey of metal welding processes. Safety, theory, and practical experience in shielded metal arc, PAC, MIG, TIG, FCAW, Shear & Brake, joint design, codes and weld testing.  
Note: Elective credit only.  
Materials Fee: $30.00 will apply towards steel, welding rods, and welding resume for industry AWS certification.  
Hours: 27 lecture, 27 laboratory  
CCS: Occupational Education  
Transferable: CSU and private colleges

**WELD B53A Shielded Metal Arc Welding**  
2 units  
Recommended: Reading - one level prior to transfer.  
Description: Basic arc welding theory and manipulative skills related to the shielded metal arc welding process, including welding in all positions with various electrodes.  
Materials Fee: $30.00  
Hours: 27 lecture, 27 laboratory  
CCS: Occupational Education  
Transferable: Associate Degree only. Not transferable.

**WELD B53B Shielded Metal Arc Welding 2**  
2 units  
Recommended: WELD B1a, WELD B1b, and Reading - one level prior to transfer.  
Description: Basic arc welding theory and manipulative skills related to the shielded metal arc welding processes, including welding in all positions with various electrodes.  
Materials Fee: $30.00  
Hours: 27 lecture, 27 laboratory  
CCS: Credit Course  
Transferable: Associate Degree only. Not transferable.

**WELD B54A Blueprint Reading for Welders and Machinists**  
3 units  
Recommended: Reading - one level prior to transfer.  
Description: Principles of blueprint reading as applied to the welding and machine trades. Emphasis will be placed on the ability to visualize and interpret working drawings. Welding symbols and basic shop math are also included.  
Hours: 54 lecture  
CCS: Occupational Education  
Transferable: Associate Degree only. Not transferable.

**WELD B54B Template Development and Layout for the Welder**  
3 units  
Recommended: Reading - one level prior to transfer.  
Description: Technical skills and critical thinking in layout techniques including layout situations, mathematical and pipe fitting terminology used in the industry.  
Hours: 54 lecture  
CCS: Credit Course  
Transferable: Associate Degree only. Not transferable.
WELD B55A Structural Plate Certification I
2 units
Prerequisite: WELD B53a with a grade of 'C' or better.
Recommended: Reading - one level prior to transfer.
Description: Safety, introduction to welding codes, welding discontinuities and practical welding. Experience on plate with SMAW or FCAW, based on the American Welding Society DI. 1 structural code. Weld 3/8” plate in 1G, 2G, 3G, & 4G fixed position for certification.
Materials Fee: $30.00
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B55B Structural Plate Certification II
2 units
Prerequisite: WELD B53a with a grade of 'C' or better.
Recommended: Reading - one level prior to transfer.
Description: Safety, introduction to welding codes, welding discontinuities and practical welding. Experience on plate with SMAW or FCAW, based on the American Welding Society DI. 1 structural code. Weld 1” plate in 1G, 2G, 3G, & 4G fixed position for certification.
Materials Fee: $30.00
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B55C ASME Pipe Certification
2 units
Prerequisites: WELD B55a or WELD B55b with a grade of 'C' or better OR evaluation of student's welding skills and knowledge.
Recommended: Reading - one level prior to transfer.
Description: Safety, welding pipe in the 5G rolled, 5G fixed and 6G fixed positions. An examination of the ASME Welding Code will also be covered.
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B55D ASME Pipe Certification
2 units
Prerequisite: WELD B55a or WELD B55b with a grade of 'C' or better OR evaluation of student's welding skills and knowledge.
Recommended: Reading - one level prior to transfer.
Description: Safety, welding pipe in the 5G rolled, 5G fixed, and 6G fixed positions. An examination of the ASME Welding Code will also be covered. 5G rolled, 5G fixed, and 6G fixed positions. An examination of the ASME Welding Code will also be covered.
Materials Fee: $30.00
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B55E API and Related Certification Testing
2 units
Prerequisites: WELD B55c or WELD B55d with grades of 'C' or better OR evaluation of students' welding skills and knowledge equivalent to WELD B55c and WELD B55d.
Recommended: Reading - one level prior to transfer.
Description: Safety, and welding pipe in 5G rolled, 5G fixed and 6G fixed positions. The API 1104 pipe welding code will also be covered. This course prepares students for certification testing.
Materials Fee: $30.00

WELD B55F API and Related Certification Testing
2 units
Prerequisites: WELD B55c and WELD B55d with grades of 'C' or better OR evaluation of student's welding skills and knowledge equivalent to WELD B55a and WELD B55b.
Recommended: Reading - one level prior to transfer.
Description: Welding safety, and welding pipe in the 5G rolled, 5G fixed, and 6G positions. The API 1104 pipe welding code will also be covered.
Materials Fee: $30.00
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B65AB Welded Steel Structures
3 units
Recommended: Previous class or experience in GMAW (gas metal arc welding) and Reading - one level prior to transfer.
Description: Introduction to welded metal fabrication. Safety related to welding and fabrication tools and equipment. Emphasizes layout, cutting, shaping, forming and welding structures together. Calculating material and labor costs will be covered as well. (This course is equivalent to combined WELD 65A and 65B).
Materials Fee: $55.00
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B74A Introduction to GMAW (Gas Metal Arc Welding) and FCAW (Flux Core Arc Welding)
2 units
Recommended: Reading - one level prior to transfer and WELD B1B or WELD B53A with a grade of 'C' or better or one year work experience as a welder.
Description: Theory and application of GMAW (Gas Metal Arc Welding) and FCAW (Flux Core Arc Welding) welding processes. Emphasizes safe and proper operation of these welding processes while welding on mild steel.
Materials Fee: $25.00 will apply towards steel, welding rods, project: welding resume for industry AWS certification.
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B74B Introduction to Gas Tungsten Arc Welding
2 units
Recommended: WELD B1a or WELD B53a with grades of 'C' or better, or one year work experience as a welder. Reading - one level prior to transfer.
Description: Theory and application of GTAW (Gas Tungsten Arc Welding) welding processes. Emphasizes safe and proper operation of this welding process while welding on mild steel, aluminum, and stainless steel.
Note: Not open to students who have taken WELD B74AB.
Materials Fee: $30.00 will apply towards steel, welding rods, and welding resume for industry AWS certification.
Hours: 27 lecture, 27 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.
**Woodworking Courses**

**WOOD B1 Introduction to Woodworking Technologies**

3 units

**Prerequisites:** Reading - one level prior to transfer.

**Description:** Basic woodworking processes related to industry technology processes to include use and care of machine and hand tools, safe machine and tool use, wood finishing, lathe operation and processes, laminate techniques, woodcarving and other specialized areas of woodworking technology. Students will create a scope of work for each eight week segment of the semester. May be transferable as an elective.

**Materials Fee:** $45.00 to cover cost of expendable materials (abrasives, adhesives, millwork items, etc.)

**Hours:** 27 lecture, 81 laboratory

**CCS:** Occupational Education

Transferable: CSU and private colleges

**WOOD B2 Furniture and Cabinetmaking**

3 units

**Recommended:** Reading - one level prior to transfer.

**Description:** Skill development on the use and care of portable and stationary woodworking machines. The use of basic wood joint techniques, surface preparations, gluing, clamping and assembly are emphasized.

**Materials Fee:** $45.00 to cover the cost of materials for the required student projects.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Occupational Education

Transferable: CSU and private colleges

**WOOD B5 Intermediate Cabinetmaking**

3 units

**Prerequisites:** WOOD B2 with a grade of 'C' or better, or evaluation by instructor of students woodworking skill sets.

**Description:** Machine woodworking for students with prior basic knowledge of woodworking machines and basic construction and assembly techniques. Emphasizes cabinet construction for industry, styles, and designs, materials and handling and basic estimating skills.

**Materials Fee:** $45.00 for lumber, hardware (if applicable), and finishing products, etc.

**Hours:** 27 lecture, 81 laboratory

**WOOD B5A Advanced Cabinetmaking**

3 units

**Prerequisites:** WOOD B5 with a grade of 'C' or better, or evaluation by instructor of students woodworking/ cabinetmaking skill sets.

**Description:** Machine woodworking emphasizing new designs including modular as well as European cabinet construction, new materials and processes, Kortron, melamine, high density particle board, as well as others. Advanced bidding techniques are discussed.

**Materials Fee:** $45.00 for project materials (glue, hardware, dowels, biscuits, and finishing products. Excludes lumber).

**Hours:** 27 lecture, 81 laboratory

**CCS:** Occupational Education

Transferable: Associate Degree only. Not transferable.

**WOOD B5B Advanced Cabinetmaking**

3 units

**Prerequisites:** WOOD B5a with a grade of 'C' or better.

**Description:** Machine and hand techniques necessary for top-end construction emphasized. Non-residential type cabinets studied. Economical use of solid lumbers will be shown. Architecture millwork such as frame and panel wainscot, bookcases, desks, bars, doors, skylights and windows demonstrated. Also included are commercial applications such as store fixtures, counters and reception desks.

**Materials Fee:** $45.00 for project materials (glue, hardware, dowels, biscuits, and finishing products. Excludes lumber).

**Hours:** 27 lecture, 81 laboratory

**CCS:** Occupational Education

Transferable: Associate Degree only. Not transferable.

**Work Experience Courses**

Registration Instructions: The Work Experience Program offers variable unit classes. Students desiring to enroll in a Work Experience class must go online to the Bakersfield College website, select Program and Classes, click on Work Experience and begin the application process. The six (6) step process must be completed to ensure enrollment in the course. It is the responsibility of the student to complete all the steps in the application process. For more information, please contact the Work Experience Office at 661/395-4580.

**WEXP B248 Occupational Work Experience Education - Paid**

1-8 units

**Prerequisites:** Declared major or occupational goal and evaluation by Work Experience department of student's qualifications and objectives.

**Description:** College credit for learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student.

**Hours:** Paid 75 hours per unit (75 – 600)

**Repeat:** 3

**CCS:** Credit Course

Transferable: CSU and private colleges

**WEXP B248 Occupational Work Experience Education - Unpaid**

1-8 units
Prerequisites: Declared major or occupational goal and evaluation by Work Experience department of student's qualifications and objectives
Description: College credit for learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student.
Hours: Unpaid 60 hours per unit (60 – 480)
Repeat: 3
CCS: Credit Course
Transferable: CSU and private colleges

WEXP B250 General Work Experience Education - Paid
1-3 units
Prerequisites: (a) Pursue a planned work experience program, (b) concurrent enrollment in seven or more units (including GWE units) except summer school, (c) evaluation by Work Experience department of students planned work experience program, qualifications and objectives.
Description: Offers students an opportunity to combine a planned occupational program with progressive on-the-job experience (OJT) and practical learning experience in the world of work.
Hours: Paid 75 hours per unit (75 – 225)
Repeat: None
CCS: Credit Course
Transferable: Associate degree only. Not transferable.

WEXP B250 General Work Experience Education - Unpaid
1-3 units
Prerequisites: (a) Pursue a planned work experience program, (b) concurrent enrollment in seven or more units (including GWE units) except summer school, (c) evaluation by Work Experience department of students planned work experience program, qualifications and objectives.
Description: Offers students an opportunity to combine a planned occupational program with progressive on-the-job experience (OJT) and practical learning experience in the world of work.
Hours: Unpaid 60 hours per unit (60 – 180)
Repeat: None
CCS: Credit Course
Transferable: Associate degree only. Not transferable.
Administration and Faculty

Bakersfield College Administration

Christian, Sonya  
President  
661/395-4211; sonya.christian@bakersfieldcollege.edu  
B.S., University of Kerala  
M.S., University of Southern California  
Ed.D., University of California, Los Angeles

Gomez-Heitzeberg, Nan  
Executive Vice President, Academic Affairs  
661/395-4305; ngomez@bakersfieldcollege.edu  
B.A., M.A., California State University, Fresno

Dadabhoy, Zavareh  
Vice President, Student Services  
661/395-4305; zavareh.dadabhoy@bakersfieldcollege.edu  
B.A., M.A., California State University, Fresno  
Ph.D., University of Colorado, Denver

Culpepper, Anthony  
Vice President, Finance and Administrative Services  
anthony.culpepper@bakersfieldcollege.edu  
A.A., Long Beach City College  
B.S., California State University, Dominguez Hills  
M.B.A., Pepperdine University  
Ed.D., Pepperdine University

Arvizu, Primavera  
Director, Financial Aid and Educational Opportunity Programs and Services  
661/395-4426; prarvizu@bakersfieldcollege.edu  
M.S., California State University, Bakersfield

Beckworth, Paul  
Dean of Student Success  
661/395-4586; pbeckwor@bakersfieldcollege.edu  
B.S., Toccoa Falls College  
M.A., Clemson University

Bresso, Michele  
Associate Dean of Instruction  
661/395-4610; mbresso@kccd.edu  
B.A., University of the Pacific  
M.S., Regis University  
M.A., Fielding Graduate University  
Ph.D., Fielding Graduate University

Chiang, Amber  
Director of Marketing and Public Relations  
661/395-4256; amchiang@bakersfieldcollege.edu  
B.A., California State University, Bakersfield  
M.S., Minnesota State University, Mankato  
A.P.R., Public Relations Society of America

Collier, Cindy  
Dean of Nursing and Allied Health  
661/392-4282; ccollier@bakersfieldcollege.edu  
B.S.N., M.S.N., California State University, Bakersfield

Coston, Todd  
Director, Information Technology  
661/395-4601; tcoston@bakersfieldcollege.edu  
B.S., University of Phoenix  
M.A., Pepperdine University

Fulks, Janet  
Dean, Student Success  
661/395-4381; jfulks@bakersfieldcollege.edu  
B.S., M.S., University of the Pacific  
Ed.D., Nova Southeastern University
Gelder, Tom  
Executive Director, Bakersfield College Foundation  
661/395-4840; tom.gelder@bakersfieldcollege.edu  
B.B.A., University of Michigan  
J.D., Indiana University

Johnson, Odella  
Director, Equity and Inclusion  
661/395-4665; ojohnson@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield

Marden, Jennifer  
Assistant to the President  
661/395-4211; jmarden@bakersfieldcollege.edu  
A.S., Bakersfield College

McCrow, Richard  
Director, Delano Campus  
661/720-2000; rmccrow@bakersfieldcollege.edu  
M.A., California State University, Fresno

Mourtzanos, Emmanuel  
Dean of Instruction  
661/395-4406; emmanuel.mourtzanos@bakersfieldcollege.edu  
B.R.E., Tyndale University  
M.A., Providence College  
Ed.D, Seattle Pacific University

Pasek, Mary Jo  
Director of Community Relations and Event Scheduling  
661/395-4556; mpasek@kccd.edu  
B.A., College of St. Scholastica

Rhoades, Dena  
Human Resources Manager  
661/395-4850; drhoades@kccd.edu

Rodriguez, Cornelio  
Dean of Instruction  
661/395-4597; crodrigui@bakersfieldcollege.edu  
B.A., California State University, Fullerton  
M.P.A., California State University, Bakersfield

Rozell, M. Elizabeth  
Dean of Instruction  
661/395-4622; mrozen@bakersfieldcollege.edu  
B.S., Houston Baptist University  
M.E., Texas A&M University

Self, Michael  
Dean of Instruction  
661/395-4921; michael.self@bakersfieldcollege.edu

Taylor, Sandra  
Director of Athletics  
661/395-4258; staylor@bakersfieldcollege.edu  
B.A., M.A., California State University, Fresno

Vaughn, Sue  
Director, Enrollment Services  
661/395-4049; svaughn@bakersfieldcollege.edu  
B.A., University of California Los Angeles  
M.A., California State University, Sonoma

Watkin, Steven  
Director, Outreach and School Relations  
661/395-4551; steven.watkin@bakersfieldcollege.edu  
B.S., M.A., Fresno Pacific University

Bakersfield College Faculty

Acosta, Helen Rose  
Professor, Communication  
661/395-4075; hacosta@bakersfieldcollege.edu  
B.A., M.A., California State University, Northridge

Aderhold, Patrick  
Assistant Professor, Engineering  
661/395-4268; patrickaderhold@bakersfieldcollege.edu  
B.A., B.S., University of Dayton  
Ph.D., Michigan State University

Agenjo, Anna  
Professor, Library  
661/395-4463; aagenjo@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., Pomona College  
M.L.S., Catholic University

Allard, Roy  
Assistant Professor, Electronics  
rallard@bakersfieldcollege.edu  
B.S., University of LaVerne

Allen, Diane  
Professor, Counseling - Disabled Students Programs & Services  
661/720-2012; dalten@bakersfieldcollege.edu  
B.A., M.A., California State University, Fresno

Amin, Karimeh  
Professor, Sociology  
661/395-4216; kamin@bakersfieldcollege.edu  
B.A., BirZeit University  
M.A., California State University, Bakersfield

Anderson, Duane  
Professor, AutoCAD  
661/395-4374; duanders@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., Fresno Pacific University

Anderson, Gayla  
Professor, Child Development  
661/395-4815; gaanders@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., Pacific Oaks College

Andrasian, Ararat  
Professor, Mathematics  
661/395-4227; aandras@bakersfieldcollege.edu  
B.S., M.S., University of Missouri
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Contact Information</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ansari, Faisal</td>
<td>Instructor, Library</td>
<td><a href="mailto:faisl.ansari@bakersfieldcollege.edu">faisl.ansari@bakersfieldcollege.edu</a></td>
<td>A.A., Los Angeles Valley College</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.A., California State University, Northridge</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.A., University of Arizona</td>
</tr>
<tr>
<td>Arthur, Kendall Moya</td>
<td>Professor, Philosophy</td>
<td><a href="mailto:marthur@bakersfieldcollege.edu">marthur@bakersfieldcollege.edu</a></td>
<td>B.A., University of California, Davis</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.A., University of California, Santa Barbara</td>
</tr>
<tr>
<td>Astacio, Jaime</td>
<td>Assistant Professor, Mathematics</td>
<td><a href="mailto:jastacio@bakersfieldcollege.edu">jastacio@bakersfieldcollege.edu</a></td>
<td>B.S., University of Puerto Rico, Humacao</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.S., University of Iowa</td>
</tr>
<tr>
<td>Baker, Andrew</td>
<td>Assistant Professor, English for Multilingual Students</td>
<td><a href="mailto:andrew.baker@bakersfieldcollege.edu">andrew.baker@bakersfieldcollege.edu</a></td>
<td>B.A., Biola University</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.A., University of Minnesota</td>
</tr>
<tr>
<td>Barnes, William</td>
<td>Professor, Agriculture</td>
<td><a href="mailto:wbarnes@bakersfieldcollege.edu">wbarnes@bakersfieldcollege.edu</a></td>
<td>A.S., Bakersfield College</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.S., California State University, Fresno</td>
</tr>
<tr>
<td>Bartel, Emily</td>
<td>Professor, Counseling</td>
<td><a href="mailto:emily.bartel@bakersfieldcollege.edu">emily.bartel@bakersfieldcollege.edu</a></td>
<td>B.A., M.Ed, San Diego State University</td>
</tr>
<tr>
<td>Bhogal, Sheena</td>
<td>Professor, English</td>
<td><a href="mailto:sbhogal@bakersfieldcollege.edu">sbhogal@bakersfieldcollege.edu</a></td>
<td>B.A., University of California, Santa Barbara</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.A., Loyola Marymount University</td>
</tr>
<tr>
<td>Bligh, Kimberly</td>
<td>Professor, Academic Development</td>
<td><a href="mailto:kvan@bakersfieldcollege.edu">kvan@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ed.D., University of Phoenix</td>
</tr>
<tr>
<td>Bohan, Timothy</td>
<td>Professor, Academic Development</td>
<td><a href="mailto:tbohan@bakersfieldcollege.edu">tbohan@bakersfieldcollege.edu</a></td>
<td>B.S., California State University, Fullerton</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Bolton, Reggie</td>
<td>Associate Professor, Health and Physical Education</td>
<td><a href="mailto:jbolton@bakersfieldcollege.edu">jbolton@bakersfieldcollege.edu</a></td>
<td>Associate Athletic Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.A., M.S., Humboldt State University</td>
</tr>
<tr>
<td>Borgens, Ed</td>
<td>Associate Professor, Political Science</td>
<td><a href="mailto:eborgens@bakersfieldcollege.edu">eborgens@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., University of California, Davis</td>
</tr>
<tr>
<td>Boles, Pamela</td>
<td>Professor, English</td>
<td><a href="mailto:pboyles@bakersfieldcollege.edu">pboyles@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Braid, Barbara</td>
<td>Professor, Counseling</td>
<td><a href="mailto:bbraid@bakersfieldcollege.edu">bbraid@bakersfieldcollege.edu</a></td>
<td>B.A., University of South Alabama</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.S., Auburn University</td>
</tr>
<tr>
<td>Campbell, Kren</td>
<td>Professor, Nursing</td>
<td><a href="mailto:kren.campbell@bakersfieldcollege.edu">kren.campbell@bakersfieldcollege.edu</a></td>
<td>A.S., Bakersfield College</td>
</tr>
<tr>
<td>Canaday, George</td>
<td>Professor, Automotive Technology</td>
<td><a href="mailto:gcanaday@bakersfieldcollege.edu">gcanaday@bakersfieldcollege.edu</a></td>
<td>A.S., Cogswell Polytechnical College</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.S., California State University, Long Beach</td>
</tr>
</tbody>
</table>

**Notes:**
- The contact information includes phone numbers, email addresses, and affiliations.
- The affiliations indicate the institutions from which the professors obtained their degrees.
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caras, Sean</td>
<td>Professor, Electronics</td>
<td>661/395-4393; <a href="mailto:scaras@bakersfieldcollege.edu">scaras@bakersfieldcollege.edu</a> B.A., California State University, Fresno</td>
</tr>
<tr>
<td>Carpenter, John</td>
<td>Professor, Sociology</td>
<td>661/395-4294; <a href="mailto:jcarpent@bakersfieldcollege.edu">jcarpent@bakersfieldcollege.edu</a> B.A., Point Loma Nazarene College M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Carter, Leah</td>
<td>Professor, Nutrition</td>
<td>661/395-4672; <a href="mailto:lcarter@bakersfieldcollege.edu">lcarter@bakersfieldcollege.edu</a> B.A., California Polytechnic State University, San Luis Obispo M.P.H., Loma Linda University R.D., Registered Dietitian</td>
</tr>
<tr>
<td>Cason, Diana</td>
<td>Associate Professor, Academic Development</td>
<td>661/395-4589; <a href="mailto:diana.cason@bakersfieldcollege.edu">diana.cason@bakersfieldcollege.edu</a> B.A., M.A., California Polytechnic State University, Pomona</td>
</tr>
<tr>
<td>Chamberlain, Greg</td>
<td>Professor, Business Management and Information Technology</td>
<td>661/395-4875; <a href="mailto:gchamber@bakersfieldcollege.edu">gchamber@bakersfieldcollege.edu</a> B.A., California State University, Dominguez Hills M.A., Fresno Pacific University Ph.D., University of Northern Colorado</td>
</tr>
<tr>
<td>Chin, Kimberly</td>
<td>Professor, Theatre Arts</td>
<td>661/395-4388; <a href="mailto:kchin@bakersfieldcollege.edu">kchin@bakersfieldcollege.edu</a> B.A., California State University, Fresno M.F.A., University of Nevada, Las Vegas</td>
</tr>
<tr>
<td>Chudy, Jeff</td>
<td>Professor, Health and Physical Education</td>
<td>661/395-4299; <a href="mailto:jchudy@bakersfieldcollege.edu">jchudy@bakersfieldcollege.edu</a> B.A., California State University, Fresno M.S.S., U.S. Sports Academy</td>
</tr>
<tr>
<td>Cluff, Greg</td>
<td>Professor, Agriculture</td>
<td>661/395-4697; <a href="mailto:gcluff@bakersfieldcollege.edu">gcluff@bakersfieldcollege.edu</a> B.S., University of Nevada, Las Vegas M.S., University of Nevada, Reno Ph.D., New Mexico State University</td>
</tr>
<tr>
<td>Commisso, Grace</td>
<td>Assistant Professor, Counseling</td>
<td>661/395-4565; <a href="mailto:grace.commiso@bakersfieldcollege.edu">grace.commiso@bakersfieldcollege.edu</a> B.A., Rutgers, The State University of New Jersey, Camden M.S.W., Rutgers, The State University of New Jersey, Piscataway</td>
</tr>
<tr>
<td>Cooper, Wilson</td>
<td>Professor, Chemistry</td>
<td>661/395-4671; <a href="mailto:wcooper@bakersfieldcollege.edu">wcooper@bakersfieldcollege.edu</a> B.S., Northeastern Oklahoma State University M.S., Ph.D., University of Arkansas</td>
</tr>
<tr>
<td>Cummings, Tina</td>
<td>Professor, Health and Physical Education</td>
<td>661/395-4663; <a href="mailto:tcumming@bakersfieldcollege.edu">tcumming@bakersfieldcollege.edu</a> A.A., Ventura College B.A., University of California, Santa Barbara M.A., California State University, Chico</td>
</tr>
<tr>
<td>Dahl, Paula</td>
<td>Professor, Health &amp; Physical Education</td>
<td>661/395-4257; <a href="mailto:pdahl@bakersfieldcollege.edu">pdahl@bakersfieldcollege.edu</a> B.S., Brigham Young University M.A., San Diego State University</td>
</tr>
<tr>
<td>Dameron, Scott</td>
<td>Professor, Health and Physical Education</td>
<td>661/395-4454; <a href="mailto:sdameron@bakersfieldcollege.edu">sdameron@bakersfieldcollege.edu</a> B.A., Vanguard University M.S., California State University, Fullerton</td>
</tr>
<tr>
<td>Damron, Brent</td>
<td>Professor, Health and Physical Education</td>
<td>661/395-4376; <a href="mailto:bdamron@bakersfieldcollege.edu">bdamron@bakersfieldcollege.edu</a> B.S., M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Daniel, William (Mike)</td>
<td>Professor, Chemistry</td>
<td>661/395-4325; <a href="mailto:mdaniel@bakersfieldcollege.edu">mdaniel@bakersfieldcollege.edu</a> B.S., Louisiana State University, Shreveport M.A., Ph.D., University of Texas, Austin</td>
</tr>
<tr>
<td>Darke, Richard</td>
<td>Professor, Physical Science</td>
<td>661/395-4245; <a href="mailto:rdarke@bakersfieldcollege.edu">rdarke@bakersfieldcollege.edu</a> B.A., California State University, Bakersfield M.A., University of Texas, Austin</td>
</tr>
<tr>
<td>Davis, Pamela</td>
<td>Professor, American Sign Language</td>
<td>661/395-4278; <a href="mailto:padavis@bakersfieldcollege.edu">padavis@bakersfieldcollege.edu</a> A.A., Bakersfield College B.A., California State University, Northridge</td>
</tr>
<tr>
<td>Davis, Sandra</td>
<td>Associate Professor, Nursing</td>
<td>661/395-4728; <a href="mailto:sandra.davis@bakersfieldcollege.edu">sandra.davis@bakersfieldcollege.edu</a> B.S., California State University, Fresno</td>
</tr>
<tr>
<td>Dean, Carl</td>
<td>Professor, Health and Physical Education</td>
<td>661/395-4265; <a href="mailto:cdean@bakersfieldcollege.edu">cdean@bakersfieldcollege.edu</a> B.A., M.A., San Jose State University</td>
</tr>
<tr>
<td>Desilagya, Alice</td>
<td>Professor, Counseling</td>
<td>661/395-4471; <a href="mailto:adesilag@bakersfieldcollege.edu">adesilag@bakersfieldcollege.edu</a> A.A., Bakersfield College B.A., M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Diaz, Victor</td>
<td>Professor, Counseling</td>
<td>661/395-4052; <a href="mailto:vicdiaz@bakersfieldcollege.edu">vicdiaz@bakersfieldcollege.edu</a></td>
</tr>
</tbody>
</table>
Dixon, Jason  
Professor, Engineering and Industrial Technology  
661/395-4080; jadixon@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.S., California State University, Bakersfield  
M.S., California State University, Sacramento

Dommer, Arlen  
Professor, Engineering and Industrial Technology  
661/395-4477; mdommer@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.S., University of Wisconsin, Stout  
M.A., California State University, Bakersfield

Doyen, Chris  
Professor, English  
661/720-2059; cdoyen@bakersfieldcollege.edu  
B.A., California State University, Long Beach  
M.F.A., California Institute of the Arts

Dumler, Gloria  
Professor, English  
661/395-4542; gdumler@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield

Dunn, Christine  
Associate Professor, Nursing  
661/395-4716; cdunn@bakersfieldcollege.edu  
B.S.N., Deaconess College of Nursing  
M.S.N., Saint Louis University

Durst, Suzanne  
Professor, Food and Nutrition  
661/395-4443; suszadavis@bakersfieldcollege.edu  
A.S., Pennslyvania Institute of Culinary Arts  
B.S., Southern Illinois University  
M.B.A., California Baptist University

Edwards, Daniel  
Professor, Journalism  
661/395-4344; daedward@bakersfieldcollege.edu  
A.A., Monterey Peninsula College  
B.A., San Jose State University  
M.A., California State University, Fresno

Eggman, Marsha  
Professor, Radiologic Technology  
661/395-4467; meggman@bakersfieldcollege.edu  
B.S., University of Phoenix

Espericueta, Rafael  
Professor, Mathematics  
resperic@bakersfieldcollege.edu  
B.A., M.S., University of California, Irvine

Feldman, Philip  
Professor, Academic Development  
661/395-4833; pfeldman@bakersfieldcollege.edu  
B.A., Stanford University  
B.A., California State University, Bakersfield

Fernandez, Manuel  
Professor, Electronics  
661/395-4645; manferna@bakersfieldcollege.edu  
B.S., University of Southern California

Ferreira, Carl  
Professor, Health and Physical Education  
661/395-4343; carferre@bakersfieldcollege.edu  
B.S., California State University, Fresno

Flint, Justin  
Assistant Professor, Automotive Technology  
661/395-4384; justin.flint@bakersfieldcollege.edu  
A.A., A.S., Reedley College  
B.S., M.S., California State University, Fresno

Freaney, Brenda  
Professor, English  
661/395-4459; bfreaney@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield

Freeman, Kathy  
Professor, English  
661/395-4458; kfreeman@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield

Frickel, David  
Professor, Health and Physical Education  
661/395-4299; dfrickel@bakersfieldcollege.edu  
A.A., Mt. San Antonio College  
B.A., Boise State University  
M.A., Azusa Pacific University

Fulks, Patrick  
Professor, Biological Sciences  
661/395-4085; pfulks@bakersfieldcollege.edu  
B.S., California State University, Sacramento  
M.S.P.H., Emory University

Gard, Carla  
Professor, Allied Health  
661/395-4934; cgard@bakersfieldcollege.edu  
A.D.N., Bakersfield College  
B.S.N., P.H.N., California State University, Bakersfield  
M.S.N., ACNP, University of California, Los Angeles

Garrett, Jennifer  
Associate Professor, Music  
661/395-4547; jennifer.garrett@bakersfieldcollege.edu  
B.M., Brigham Young University  
M.M., University of Nebraska, Lincoln  
D.M.A., Arizona State University

Garrett, Matthew  
Associate Professor, History  
661/395-4586; matgarre@bakersfieldcollege.edu
Garrison, Andrea
Professor, Biological Sciences
661/395-4262; agarrison@bakersfieldcollege.edu
B.A., Brigham Young University
M.A., University of Nebraska
Ph.D., Arizona State University

Garza, Rosa
Professor, History
661/395-4456; rogarza@bakersfieldcollege.edu
B.A., University of California, San Diego
M.A., California State University, Fullerton

Gerhold, John
Professor, Music
661/395-4533; jgerhold@bakersfieldcollege.edu
M.F.A., B.M.U.S., University of California, Irvine
D.M.A., University of British Columbia

Giertz, John
Professor, Communication
661/395-4544; jgiertz@bakersfieldcollege.edu
B.A., California State University, Northridge
M.A., San Francisco State University
Ph.D., Regent University

Gomez, Alex
Assistant Professor, Family and Consumer Education
661/395-4272; alegomez@bakersfieldcollege.edu
A.O.S., California Culinary Academy

Grays, Ronald
Associate Professor, Engineering & Industrial Technology
661/395-4358; rgrays@bakersfieldcollege.edu
A.A., Bakersfield College
B.A.E., California State University, Long Beach

Greenwood, Thomas
Professor, Mathematics
661/395-4229; tgreenwood@bakersfieldcollege.edu
A.A., Moorpark College
B.A., University of California, Santa Barbara
M.S., Northern Arizona University

Guidry, Nancy
Professor, Library
661/395-4682; nguidry@bakersfieldcollege.edu
B.A., M.L.S., University of California, Los Angeles

Hageman, Steven
Professor, Woodworking Technology
661/395-4759; shageman@bakersfieldcollege.edu
A.A., Bakersfield College
B.A., California State University, Fresno
M.A., California Polytechnic State University, San Luis Obispo

Hairfield, Katherine
Professor, Radiologic Technology
661/395-4249; khairfield@bakersfieldcollege.edu
A.S., Bakersfield College
B.S., M.S., University of La Verne

Ham, Edward
Associate Professor, Mathematics
661/395-4004; eham@bakersfieldcollege.edu
Ph.D., Columbia University

Harding, Lisa
Professor, Nursing
661/395-4389; lharding@bakersfieldcollege.edu
B.S.N., Walla Walla University
M.S.N., Holy Names University

Harker, Christine
Professor, Allied Health
661/395-4116; seeharker@bak.rr.com
B.S., University of Laverne
Licensed Paramedic, State of California

Hart, John
Professor, English for Multilingual Students
661/395-4793; jhart@bakersfieldcollege.edu
B.A., California State University Bakersfield
M.A., University of Utah

Hart, Mary Michelle
Assistant Professor, Academic Development
661/720-2060; michelle.hart@bakersfieldcollege.edu
A.A., Porterville College
B.A., California State University, Chico
M.A., National University

Harvath, Michael
Professor, Economics
661/395-4458; mharvath@bakersfieldcollege.edu
A.A., Cypress College
B.A., California State University, Long Beach
Ph.D., University of Chicago

Haycock, Christy
Professor, Mathematics
661/395-4220; chaycock@bakersfieldcollege.edu
A.A., Bakersfield College
B.S., California State University, Bakersfield
M.S., California State University, Fresno

Head, Rebecca
Professor, Mathematics
661/395-4050; rebecca@bakersfieldcollege.edu
B.S., University of Colorado, Boulder
M.S., California State University, Northridge
M.S., Colorado State University, Fort Collins

Henderson, Walter
Associate Professor, Counseling
661/395-4565; walter.henderson@bakersfieldcollege.edu
B.A., University of Alabama, Birmingham
Hill, Traci
Professor, Nursing
661/395-4604; thill@bakersfieldcollege.edu
B.A., Chadron State College, Nebraska
B.S.N., University of Nebraska Medical Center
M.S.N., Walden University

Hirayama, Bryan
Assistant Professor, Communication
661/395-4611; brian.hirayama@bakersfieldcollege.edu
B.A., College of the Sequoias
B.A., M.A., California State University, Fresno

Hoffman, Dianthe
Associate Professor, Nursing
661/395-4584; dianthe.hoffman@bakersfieldcollege.edu
B.S.N., M.P.A., California State University, Fresno
M.S.N., California State University, Dominguez Hills

Holmes, Steven
Professor, Political Science
661/395-4289; sholmes@bakersfieldcollege.edu
B.A., University of California, Santa Barbara
M.P.A., California State University, Chico

Hubble, Cynthia
Professor, English
661/395-4275; chubble@bakersfieldcollege.edu
B.A., Bakersfield College
B.A., M.A., California State University, Bakersfield

Hughes, Richard
Professor, Health and Physical Education
661/395-4553; rihughes@bakersfieldcollege.edu
B.A., California State University, Dominguez Hills
M.S., Emporia State University

Hukill, Regina
Professor, Mathematics
661/395-4331; rhukill@bakersfieldcollege.edu
B.A., Bakersfield College
B.S., California State University, Bakersfield
M.S., University of Wyoming

Ivey, Michael
Professor, Business Management and Information Technology
661/395-4363; mivey@bakersfieldcollege.edu
B.A., M.S.A., East Carolina University

Jackson, Jo'L
Associate Professor, Child Development
661/395-4754; jojacks@bakersfieldcollege.edu
A.S., Bakersfield College
B.A., M.A., Pacific Oaks College

Jett, Jennifer
Professor, English
661/395-4524; jjett@bakersfieldcollege.edu

Jett, Shane
Professor, English
661/395-4208; shjett@bakersfieldcollege.edu
B.A., University of California, Los Angeles
M.A., Boston College

Jimenez, Qiu
Professor, Foreign Language
661/395-4292; yqiu@bakersfieldcollege.edu
B.A., Beijing University
M.A., University of Cincinnati
Ph.D., University of California, Los Angeles

Johnson, Daniel
Professor, Automotive Technology
661/395-4676; dajohnson@bakersfieldcollege.edu
A.A., Modesto Junior College

Johnson, Daymon
Professor, Social Science
661/395-4350; dayjohn@bakersfieldcollege.edu
B.A., Bakersfield College
B.A., M.A., California State University, Bakersfield
Ph.D., Florida State University

Johnson, Fabiola
Instructor, Counseling
661/395-4860; fabiola.johnson@bakersfieldcollege.edu
B.A., California State University, Bakersfield

Johnson, Jennifer
Professor, Allied Health
661/395-4372; jlwilson@bakersfieldcollege.edu
B.S.N., California State University, Bakersfield

Jones, A. Todd
Professor, Communication
661/395-4606; atjones@bakersfieldcollege.edu
B.S., Brigham Young University
M.A., Arizona State University

Kelley, Pamela Sue
Professor, Health-Physical Education
661/395-4259; pkelley@bakersfieldcollege.edu
B.A., M.A., University of the Pacific

Kelly, Diana
Professor, Counseling-Disabled Student Programs and Services
661/395-4334; dkelly@bakersfieldcollege.edu
B.A., University of New Mexico
M.A., California State University, San Bernardino

Kelly, William W.
Professor, Agriculture
661/395-4097; wkelly@bakersfieldcollege.edu
A A., Bakersfield College
B.S., M.S., California State University, Fresno

Kennedy, Debra
Professor, Allied Health
661/395-4340; dkennedy@bakersfieldcollege.edu
B.S.N., M.B.A., California State University, Bakersfield

Kim, Charles
Associate Professor, Political Science
661/720-2017; charles.kim@bakersfieldcollege.edu
A A., Bakersfield College
B.A., M.P.A., California State University, Bakersfield

Kimball, Dan
Professor, Physical Science
661/395-4242; dkimball@bakersfieldcollege.edu
B.S., Brigham Young University
M.S., San Diego State University

Kimbrough III, Ishmael
Professor, History
661/395-4524; ikimbrou@bakersfieldcollege.edu
B.A., McPherson College
M.A., Emporia State

Kirst, Joyce
Professor, Academic Development
661/395-4464; jkirst@bakersfieldcollege.edu
B.A., Saint Louis University
M.A., California Polytechnic State University, San Luis Obispo

Klopstein, Kurt
Professor, Mathematics
661/395-4624; kklopste@bakersfieldcollege.edu
B.S., M.A., University of California, Santa Barbara

Knabe, Ronnie
Assistant Professor, Nursing
661/395-4287; rknabe@bakersfieldcollege.edu
B.S., M.S.N., University of Phoenix

Koeth, David
Professor, Art
661/395-4674; dkoeth@bakersfieldcollege.edu
B.F.A., University of Akron
M.F.A., California State University, Fullerton

Komin, Michael
Professor, Welding
661/395-4573; mkomin@bakersfieldcollege.edu
B.S., California State University, Fresno
M.A., National University

Korcok, Michael
Professor, Communication
661/395-4330; mkorcok@bakersfieldcollege.edu
B.S., Southern Illinois University
M.A., Kansas State University

Krausse, Lynn
Professor, Business Management and Information Technology
661/395-4377; lkrausse@bakersfieldcollege.edu
A A., Golden West College
B.S., California State University, Long Beach
M.S., Golden Gate University

Kumelos, Rae Ann
Associate Professor, English
661/395-4457; rae.kumelos@bakersfieldcollege.edu
B.S., Arizona State University
M.A., New Mexico Highlands University
M.A., Ph.D., Pacific Graduate Institute

La, Bill
Professor, Counseling
661/395-4320; bill.la@bakersfieldcollege.edu
B.S., California State University, Long Beach
M.S., California State University, San Diego

Lamers, Andrew
Professor, English
661/395-4399; alamers@bakersfieldcollege.edu
B.A., M.A., University of Kansas

Larkin, Lora
Professor, Psychology
661/395-4380; llarkin@bakersfieldcollege.edu
A A., Bakersfield College
B.A., California State University, Bakersfield
M.A., California School of Professional Psychology

LeBlanc, Ginger
Professor, Psychology
661/395-4513; gleblanc@bakersfieldcollege.edu
Ph.D., Colorado State University, Fort Collins, Colorado

Lewis, Janet
Professor, Nursing
661/395-4442; jlewis@bakersfieldcollege.edu
A.S., Bakersfield College
B.S.N., California State University, Dominguez Hills

Liu, Li Kang
Professor, Mathematics
661/395-4557; liu@bakersfieldcollege.edu
B.S., University of California, Davis
M.A., California State University, Fresno

Loken, Alisha
Associate Professor, Nursing
661/395-4420; aloken@bakersfieldcollege.edu
A.D.N., Los Angeles County College of Nursing and Allied Health
B.S.N., University of Phoenix
M.S.N., Walden University

Lowe, Julie
Professor, Chemistry
661/395-4310; jlowe@bakersfieldcollege.edu
A.S., Sacramento City College
B.S., M.S., California State University, Fresno
Lucas, Veronica  
Instructor, Counseling  
661/395-4752; vlucas@bakersfieldcollege.edu  
B.S., California State University, Long Beach  
M.S., California State University, Bakersfield

Magers, Creighton  
Professor, Business Management and Information Technology  
661/395-4568; cmagers@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield

Magner, Nancy  
Professor, Art  
661/395-4074; nmagner@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield

Marquez, Marisa  
Instructor, Counseling  
661/395-4881; marimarq@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., M.Ed., California State University, Bakersfield

Marquez, Richard  
Professor, English  
661/395-4217; rmarquez@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield

Martin, Gabriele  
Associate Professor, Nursing  
661/395-4403; gmartin@bakersfieldcollege.edu  
A.D.N., Bakersfield College  
B.S.N., M.S.N., Holy Names University

Martinez, Lily  
Assistant Professor, Spanish  
lily.martinez@bakersfieldcollege.edu  
B.A., M.A., University of Nevada, Reno  
Ph.D., University of Illinois at Urbana-Champaign

Martinez, Robert  
Professor, Music  
661/395-4546; robby@bakersfieldcollege.edu  
A.A., San Bernardino Valley College  
B.A., M.A., San Diego State University

McCraw, Christopher  
Assistant Professor, Agriculture  
661/395-4053; chris.mccraw@bakersfieldcollege.edu  
B.S., M.S., California Polytechnic State University, San Luis Obispo

McLaughlin, Linda  
Associate Professor, American Sign Language  
661/395-8682 (video phone)  
linda.mclaughlin@bakersfieldcollege.edu  
B.S., Gallaudet University  
M.A., Western Maryland College

McNellis, Michael  
Professor, Philosophy  
661/395-4935; mmcnellis@bakersfieldcollege.edu  
A.A., Moorpark College

McQuerrey, Susan  
Professor, English for Multilingual Students  
661/395-4587; smcquerr@bakersfieldcollege.edu  
B.A., University of the Pacific  
M.A., California State University, Bakersfield

Mendola, Jaime  
Professor, Nursing  
661/395-4535; jmendiol@bakersfieldcollege.edu  
B.S.N., California State University, Bakersfield  
M.S.N., ACNP, University of California, Los Angeles

Mendoza, Harold  
Associate Professor, Business Management and Information Technology  
661/395-4631; harold.mendoza@bakersfieldcollege.edu  
B.S., California State University, Sacramento  
M.S., California State University, Fullerton  
M.S., Stanford University

Menzies, John  
Professor; Geography  
661/395-4563; jmenzies@bakersfieldcollege.edu  
B.S., University of Winnipeg  
M.S., University of North Dakota  
Ph.D., Indiana State University

Messick, Randall  
Professor, Theatre Arts  
661/395-4549; rmessick@bakersfieldcollege.edu  
B.A., California State University, Fresno  
M.F.A., University of California, Davis  
M.A.R., Trinity Angelican Seminary

Meyers, David  
Professor, Mathematics  
661/395-4517; dmeyers@bakersfieldcollege.edu  
B.A., M.S., California State University, Humboldt

Michalski, Ann  
Professor, Nursing  
661/395-4575; amichals@bakersfieldcollege.edu  
A.S., Taft College  
B.S., P.H.N., California State University, Bakersfield  
M.S., F.N.P., University of Phoenix

Mieh, Thomas  
Professor, Mathematics  
661/395-4761; thmieh@bakersfieldcollege.edu  
B.S., University of Liberia  
M.S., St. Louis University

Miller, Erin  
Associate Professor, History  
661/395-4350; emiller@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., California State University, Bakersfield  
M.A., University of Notre Dame
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Phone</th>
<th>Email</th>
<th>Institution</th>
<th>Degree and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitchell, Denise</td>
<td>Professor, English</td>
<td>661/395-4541</td>
<td><a href="mailto:dmitchel@bakersfieldcollege.edu">dmitchel@bakersfieldcollege.edu</a></td>
<td>A A., West Los Angeles College</td>
<td>B.A., M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Monks, Rebecca</td>
<td>Professor, English</td>
<td>661/395-4275</td>
<td><a href="mailto:rmonks@bakersfieldcollege.edu">rmonks@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., California State University, Bakersfield</td>
<td></td>
</tr>
<tr>
<td>Mooney, Rebecca</td>
<td>Professor, English</td>
<td>661/395-4455</td>
<td><a href="mailto:rmooney@bakersfieldcollege.edu">rmooney@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., California State University, Northridge</td>
<td></td>
</tr>
<tr>
<td>Monks, Rebecca</td>
<td>Professor, English</td>
<td>661/395-4275</td>
<td><a href="mailto:rmonks@bakersfieldcollege.edu">rmonks@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., California State University, Bakersfield</td>
<td></td>
</tr>
<tr>
<td>Mooney, Rebecca</td>
<td>Professor, English</td>
<td>661/395-4455</td>
<td><a href="mailto:rmooney@bakersfieldcollege.edu">rmooney@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., California State University, Northridge</td>
<td></td>
</tr>
<tr>
<td>Mooney, Rebecca</td>
<td>Professor, English</td>
<td>661/395-4455</td>
<td><a href="mailto:rmooney@bakersfieldcollege.edu">rmooney@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., California State University, Northridge</td>
<td></td>
</tr>
<tr>
<td>Morgan, Thomas</td>
<td>Professor, American Sign Language</td>
<td>661/395-4537</td>
<td><a href="mailto:tmorgan@bakersfieldcollege.edu">tmorgan@bakersfieldcollege.edu</a></td>
<td>A A., Golden West College</td>
<td>M.A., California State University, Fresno</td>
</tr>
<tr>
<td>Moseley, William</td>
<td>Professor, Business Management and Information Technology</td>
<td>661/395-4741</td>
<td><a href="mailto:bmoseley@bakersfieldcollege.edu">bmoseley@bakersfieldcollege.edu</a></td>
<td>M.A., Pepperdine University</td>
<td>Ph.D., University of Nebraska, Lincoln</td>
</tr>
<tr>
<td>Mulder, Beth</td>
<td>Professor, Allied Health</td>
<td>661/395-4566</td>
<td><a href="mailto:bmulder@bakersfieldcollege.edu">bmulder@bakersfieldcollege.edu</a></td>
<td>M.S.N., Loma Linda University Graduate School of Nursing</td>
<td></td>
</tr>
<tr>
<td>Neville, David</td>
<td>Associate Professor, Spanish</td>
<td>661/395-4291</td>
<td><a href="mailto:dneville@bakersfieldcollege.edu">dneville@bakersfieldcollege.edu</a></td>
<td>B.A., Brigham Young University</td>
<td>M.A., University of Arizona</td>
</tr>
<tr>
<td>Newton, Chad</td>
<td>Professor, Biological Sciences</td>
<td>661/395-4085</td>
<td><a href="mailto:cnewton@bakersfieldcollege.edu">cnewton@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., University of California, Santa Barbara</td>
<td></td>
</tr>
<tr>
<td>Newton, Kimberly</td>
<td>Professor, Biological Sciences</td>
<td>661/395-4409</td>
<td><a href="mailto:kmnewton@bakersfieldcollege.edu">kmnewton@bakersfieldcollege.edu</a></td>
<td>B.A., University of California, Santa Barbara</td>
<td>M.S., California Polytechnic State University, Pomona</td>
</tr>
<tr>
<td>Nickell, Kimberly</td>
<td>Associate Professor, Academic Development</td>
<td>661/395-4654</td>
<td><a href="mailto:knickell@bakersfieldcollege.edu">knickell@bakersfieldcollege.edu</a></td>
<td>B.S., M.A., California State University, Bakersfield</td>
<td></td>
</tr>
<tr>
<td>Nyagwachi, Brenda</td>
<td>Professor, Child Development</td>
<td>661/395-4658</td>
<td><a href="mailto:bnyagwac@bakersfieldcollege.edu">bnyagwac@bakersfieldcollege.edu</a></td>
<td>A A. Bakersfield College</td>
<td></td>
</tr>
<tr>
<td>Ono, Lindsay</td>
<td>Professor, Horticulture</td>
<td>661/395-4938</td>
<td><a href="mailto:lono@bakersfieldcollege.edu">lono@bakersfieldcollege.edu</a></td>
<td>B.A., Bakersfield College</td>
<td>M.S., California Polytechnic State University, San Luis Obispo</td>
</tr>
<tr>
<td>Parent, Jeannie</td>
<td>Professor, English for Multilingual Students</td>
<td>661/395-4543</td>
<td><a href="mailto:jparent@bakersfieldcollege.edu">jparent@bakersfieldcollege.edu</a></td>
<td>B.A., University of California, Santa Barbara</td>
<td></td>
</tr>
<tr>
<td>Parent, Jeannie</td>
<td>Professor, English for Multilingual Students</td>
<td>661/395-4543</td>
<td><a href="mailto:jparent@bakersfieldcollege.edu">jparent@bakersfieldcollege.edu</a></td>
<td>B.A., University of California, Santa Barbara</td>
<td></td>
</tr>
<tr>
<td>Parent, Jeannie</td>
<td>Professor, English for Multilingual Students</td>
<td>661/395-4543</td>
<td><a href="mailto:jparent@bakersfieldcollege.edu">jparent@bakersfieldcollege.edu</a></td>
<td>B.A., University of California, Santa Barbara</td>
<td></td>
</tr>
<tr>
<td>Painton, Timothy</td>
<td>Professor, Health and Physical Education</td>
<td>661/395-4261</td>
<td><a href="mailto:tpainton@bakersfieldcollege.edu">tpainton@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., California State University, Fresno</td>
<td></td>
</tr>
<tr>
<td>Park, Sung Soo</td>
<td>Professor, Physical Science</td>
<td>661/395-4246</td>
<td><a href="mailto:spark@bakersfieldcollege.edu">spark@bakersfieldcollege.edu</a></td>
<td>B.A., University of California, Irvine</td>
<td>M.S., University of New Mexico, Albuquerque</td>
</tr>
<tr>
<td>Peet, Scott</td>
<td>Associate Professor, Biological Science</td>
<td>661/395-4329</td>
<td><a href="mailto:scott.peet@bakersfieldcollege.edu">scott.peet@bakersfieldcollege.edu</a></td>
<td>B.A., Simpson University</td>
<td>M.S., California State University, Bakersfield</td>
</tr>
<tr>
<td>Parks, Paula</td>
<td>Professor, English</td>
<td>661/395-4767</td>
<td><a href="mailto:pparks@bakersfieldcollege.edu">pparks@bakersfieldcollege.edu</a></td>
<td>B.A., University of California, Los Angeles</td>
<td>M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Peet, Laura</td>
<td>Assistant Professor, English</td>
<td>661/395-4644</td>
<td><a href="mailto:lpeet@bakersfieldcollege.edu">lpeet@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., California State University, Bakersfield</td>
<td></td>
</tr>
<tr>
<td>Perkins, Nancy</td>
<td>Professor, Radiologic Technology</td>
<td>661/395-4247</td>
<td><a href="mailto:nperkins@bakersfieldcollege.edu">nperkins@bakersfieldcollege.edu</a></td>
<td>B.A., Bakersfield College</td>
<td>M.S., California Lutheran University</td>
</tr>
<tr>
<td>Name</td>
<td>Title</td>
<td>Office Email</td>
<td>Phone</td>
<td>Email</td>
<td>Address</td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------------------------------------</td>
<td>-------------------------------------------</td>
<td>------------------------------------</td>
<td>-------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Pierce, Jack</td>
<td>Professor, Geology</td>
<td><a href="mailto:jpierce@bakersfieldcollege.edu">jpierce@bakersfieldcollege.edu</a></td>
<td>661/395-4391;</td>
<td></td>
<td>B.A., San Diego State University</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.S., University of Idaho</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pimentel-Stratton, Lily</td>
<td>Professor, Child Development</td>
<td><a href="mailto:lipiment@bakersfieldcollege.edu">lipiment@bakersfieldcollege.edu</a></td>
<td>661/720-2006;</td>
<td></td>
<td>B.A., California Polytechnic State University, Pomona</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.A., California State University, Los Angeles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinza, Susan</td>
<td>Professor, Academic Development</td>
<td><a href="mailto:spinza@bakersfieldcollege.edu">spinza@bakersfieldcollege.edu</a></td>
<td>661/395-4464;</td>
<td></td>
<td>B.A., Stanford University</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.A., California Polytechnic State University, San Luis Obispo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pluta, Katherine R.</td>
<td>Professor, English</td>
<td><a href="mailto:kpluta@bakersfieldcollege.edu">kpluta@bakersfieldcollege.edu</a></td>
<td>661/395-4531;</td>
<td></td>
<td>B.A., M.A., M.S.L.S., California State University, Fullerton</td>
</tr>
<tr>
<td>Poetker, Anna</td>
<td>Assistant Professor, Philosophy</td>
<td><a href="mailto:apoetker@bakersfieldcollege.edu">apoetker@bakersfieldcollege.edu</a></td>
<td>661/395-4367;</td>
<td></td>
<td>B.A., University of California, Los Angeles</td>
</tr>
<tr>
<td>Posey, Vic</td>
<td>Associate Professor, Automotive Technology</td>
<td><a href="mailto:vposey@bakersfieldcollege.edu">vposey@bakersfieldcollege.edu</a></td>
<td>661/395-4532;</td>
<td></td>
<td>A.S., Bakersfield College</td>
</tr>
<tr>
<td>Powell, Cynthia</td>
<td>Professor, English</td>
<td><a href="mailto:cpowell@bakersfieldcollege.edu">cpowell@bakersfieldcollege.edu</a></td>
<td>661/395-4782;</td>
<td></td>
<td>B.A., B.A., M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Rahman, Shohreh</td>
<td>Associate Professor, Counseling</td>
<td><a href="mailto:srahman@bakersfieldcollege.edu">srahman@bakersfieldcollege.edu</a></td>
<td>661/395-4412;</td>
<td></td>
<td>B.A., M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Rails, Josh</td>
<td>Associate Professor, Welding</td>
<td><a href="mailto:jralls@bakersfieldcollege.edu">jralls@bakersfieldcollege.edu</a></td>
<td>661/395-4790;</td>
<td></td>
<td>B.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Reiman, Leslie</td>
<td>Professor, Biological Science</td>
<td><a href="mailto:freiman@bakersfieldcollege.edu">freiman@bakersfieldcollege.edu</a></td>
<td>661/395-4730;</td>
<td></td>
<td>B.S., California State University, Stanislaus</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.S., California State University, East Bay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rice, Billie Jo</td>
<td>Associate Professor, Psychology</td>
<td><a href="mailto:brice@bakersfieldcollege.edu">brice@bakersfieldcollege.edu</a></td>
<td>661/395-4936;</td>
<td></td>
<td>A.A., Bakersfield College</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.A., M.A., California State University, Bakersfield</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richardson, Gayle</td>
<td>Professor, Business Management and Information Technology</td>
<td><a href="mailto:grichard@bakersfieldcollege.edu">grichard@bakersfieldcollege.edu</a></td>
<td>661/395-4062;</td>
<td></td>
<td>A.A., College of the Redwoods</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.S., California State University, Humboldt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rigby, Klint</td>
<td>Professor, Engineering and Industrial Technology</td>
<td><a href="mailto:krigby@bakersfieldcollege.edu">krigby@bakersfieldcollege.edu</a></td>
<td>661/395-4225;</td>
<td></td>
<td>B.A., California State University, Fresno</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.A., Point Loma Nazarene University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robinson, Valerie</td>
<td>Professor, Business Management and Information Technology</td>
<td><a href="mailto:vrobotko@bakersfieldcollege.edu">vrobotko@bakersfieldcollege.edu</a></td>
<td>661/395-4375; <a href="mailto:erobotko@bakersfieldcollege.edu">erobotko@bakersfieldcollege.edu</a></td>
<td></td>
<td>A.A., Modesto Junior College</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.A., M.A., California State University, Stanislaus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rodacker, Elizabeth</td>
<td>Associate Professor, English for Multilingual Students</td>
<td><a href="mailto:erodacke@bakersfieldcollege.edu">erodacke@bakersfieldcollege.edu</a></td>
<td>661/395-4793; <a href="mailto:erodacke@bakersfieldcollege.edu">erodacke@bakersfieldcollege.edu</a></td>
<td></td>
<td>A.A., Detroit Institute of Technology</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.A., Davenport University</td>
<td></td>
<td>B.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Rodriguez, Cornelio</td>
<td>Professor, Political Science</td>
<td><a href="mailto:crodigue@bakersfieldcollege.edu">crodigue@bakersfieldcollege.edu</a></td>
<td>661/395-4597;</td>
<td></td>
<td>B.A., California State University, Fullerton</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.P.A., California State University, Stanislaus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rosales, Oliver</td>
<td>Associate Professor, History</td>
<td><a href="mailto:orosal@bakersfieldcollege.edu">orosal@bakersfieldcollege.edu</a></td>
<td>661/720-2065;</td>
<td></td>
<td>B.A., University of California, Berkeley</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.A., California State University, Bakersfield</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ph.D., University of California, Santa Barbara</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rosellini, Kathleen M.</td>
<td>Professor, Counseling</td>
<td><a href="mailto:krussell@bakersfieldcollege.edu">krussell@bakersfieldcollege.edu</a></td>
<td>661/395-4618;</td>
<td></td>
<td>B.A., M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Rush, Kathleen</td>
<td>Professor, Mathematics</td>
<td><a href="mailto:krush@bakersfieldcollege.edu">krush@bakersfieldcollege.edu</a></td>
<td>661/395-4244;</td>
<td></td>
<td>B.S., Saint Peter’s College</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.S., University of Maryland</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.A., Antioch University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Russell, Kirk</td>
<td>Professor, Library</td>
<td><a href="mailto:knussell@bakersfieldcollege.edu">knussell@bakersfieldcollege.edu</a></td>
<td>661/395-4625;</td>
<td></td>
<td>B.A., M.L.I.S., Brigham Young University</td>
</tr>
<tr>
<td>Saldivar, Jose</td>
<td>Professor, Biological Science</td>
<td><a href="mailto:jsaldiva@bakersfieldcollege.edu">jsaldiva@bakersfieldcollege.edu</a></td>
<td>661/395-4099;</td>
<td></td>
<td>B.A., California State University, Fresno</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ph.D., University of California, Irvine</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Salgueiro-Carlisle, Maritza
Professor, Foreign Language
661/395-4291; mcarlisl@bakersfieldcollege.edu
B.A., University of Puerto Rico
M.A., University of Illinois

Scanlon, Bernard
Professor, Mathematics
661/395-4054; bscanlon@bakersfieldcollege.edu
B.S., Allegheny College
M.A., M.S., University of Iowa

Schultz, Jonathan
Instructor, Counseling
661/395-4069; jonathan.schultz@bakersfieldcollege.edu
B.A., The Masters College
M.A., California State University, Bakersfield

Serpa, Patrick
Professor, Mathematics
661/395-4557; pserva@bakersfieldcollege.edu
B.S., San Jose State University
M.S., California State University, Hayward
M.A., University of California, Los Angeles

Shafik, Adel
Professor, Art
661/395-4515; ashafik@bakersfieldcollege.edu
B.F.A., Helwan University
M.F.A., Indiana University

Sierra, Sandra
Professor, Counseling
661/720-2005; sasierra@bakersfieldcollege.edu
B.A., M.A., California State University, Bakersfield

Simmons, Walton
Professor, Business Management and Information Technology
661/395-4631; wsimmons@bakersfieldcollege.edu
B.S., California Baptist College
M.A., Chapman College

Sims, Wesley
Associate Professor, English
661/395-4583; wsims@bakersfieldcollege.edu
B.A., Mount Vernon Nazarene University
M.A., Texas A&M
Ph.D., University of Illinois, Chicago

Smith, Carol
Professor, Mathematics
661/395-4562; csmith@bakersfieldcollege.edu
B.S., California Polytechnic State University, San Luis Obispo
M.S., California State University, Northridge

Smith, Patricia
Instructor, Criminal Justice
661/395-4407; patsmith@bakersfieldcollege.edu
A.A., Bakersfield College
B.A., California State University, Bakersfield

Staatt, Jeremy
Assistant Professor, Welding

Staller, Mark
Professor, Communication
661/395-4499; mstaller@bakersfieldcollege.edu
B.A., Saint Mary’s College of California
M.A., Ph.D., University of California, Berkeley

Stallworth, Kristopher
Associate Professor, Art
661/395-4206; kstallwo@bakersfieldcollege.edu
B.A., Southern Illinois University
M.F.A., The University of Memphis

Stanifer, Neal
Assistant Professor, English
661/395-4459; dstarr@bakersfieldcollege.edu
B.S., University of California, Los Angeles
M.S., California State University, Fresno

Starr, Donna
Professor, Mathematics
661/395-4229; dstarr@bakersfieldcollege.edu
B.A., B.S., M.S., University of Illinois, Chicago

Stiles, Bradley
Professor, English
661/395-4457; brstiles@bakersfieldcollege.edu
B.A., Wichita State University
M.A., Ph.D., University of Illinois at Urbana-Champaign

Stowers, Misty
Assistant Professor, Economics
mistystowers@bakersfieldcollege.edu
A.A., Antelope Valley College
B.A., M.A., California State University, Bakersfield

Stratton, Jason
Professor, History
661/395-4071; jstratto@bakersfieldcollege.edu
B.A., University of LaVerne
M.A., University of California, Riverside

Strobel, Nicolas
Professor, Physical Science
661/395-4526; nstrobel@bakersfieldcollege.edu
B.S., University of Arizona
M.S., Ph.D., University of Washington

Tarjan, Janet
Professor, Mathematics
Tatum, Ann
Professor, English
661/395-4362; atatum@bakersfieldcollege.edu
B.S., University of Illinois, Chicago
M.S., Northwestern University
Ed.D., Nova Southeastern University

Tavoni, Stephen
Associate Professor, Biology
661/395-4031; stephen.tavoni@bakersfieldcollege.edu
B.S., University of California, Santa Cruz
M.S., Sonoma State University

Thorson, Andrea
Assistant Professor, Communication
athorson@bakersfieldcollege.edu
B.A., Bradley University
M.A., California State University, Long Beach

Toler, Kristopher
Professor, Mathematics
661/395-4557; ktoler@bakersfieldcollege.edu
B.S., California State University, Bakersfield
M.S., California Polytechnic State University, San Luis Obispo

Torres, Lidia
Professor, Architecture
661/395-4579; ltorres@bakersfieldcollege.edu
A.S., Bakersfield College
B.A., California Polytechnic State University, San Luis Obispo
M.A., University of LaVerne

Torres, Robert
Professor, History
661/395-4218; rbtorres@bakersfieldcollege.edu
B.A., M.A., California State University, Fresno

Towns, Bernadette
Professor, Child Development
661/395-4444; btowns@bakersfieldcollege.edu
B.S., Bridgewater College
M.S., California Lutheran University
Ph.D., Walden University

Trujillo, Rene
Professor, Philosophy
661/395-4725; rtrujillo@bakersfieldcollege.edu
B.A., M.A., Ph.D., University of Colorado, Boulder

Tumblin, Andrea
Assistant Professor, Mathematics
661/395-4229; andrea.tumblin@bakersfieldcollege.edu
B.S., M.A., University of Oklahoma

Turney, Donald
Professor, Psychology
661/395-4293; dturney@bakersfieldcollege.edu
B.A., Biola University
M.A., California State University, Fresno
M.A., Pepperdine University

Vasquez, Angelica
Instructor, Counseling

Vaughan, Kenward
Professor, Chemistry
661/395-4243; kvaughan@bakersfieldcollege.edu
B.S., Duke University
Ph.D., Yale University

Vickrey, Rachel
Professor, Mathematics
661/395-4382; rvickrey@bakersfieldcollege.edu
B.A., Western Washington University
M.A., Evergreen State College
M.A., West Georgia College
M.A., University of New Mexico

Villasenor, Sarah
Assistant Professor, Counseling
661/395-4422; svillase@bakersfieldcollege.edu
B.A., California State University, Bakersfield
M.A., National University

Wayland, Scott
Professor, English
661/395-4588; swayland@bakersfieldcollege.edu
B.A., M.A., Sonoma State University

Whelan, Conor
Assistant Professor, Mathematics
661/395-2016; cwhelan@bakersfieldcollege.edu
B.A., Pitzer College

Whitney, Phillip
Professor, Business Management and Information Technology
661/395-4042; pwhitney@bakersfieldcollege.edu
A.A., Bakersfield College
B.S., California State University, Chico
B.S., M.B.A., California State University, Bakersfield

Whitson, Becki A.
Professor, Psychology
661/395-4619; bwhitson@bakersfieldcollege.edu
A.A., Bakersfield College
B.A., California State University, Bakersfield

Wiederrecht, Ann
Professor, History
661/395-4692; awiederr@bakersfieldcollege.edu
B.A., Smith College
M.A., Antioch University

Williams, Reginald
Professor, Philosophy
661/395-4439; rwilliam@bakersfieldcollege.edu
A.A., Bakersfield College
B.A., California State University, Bakersfield
M.A., Ph. D., University of Illinois

**Willis, Darren**
*Assistant Professor, Industrial Drawing*
661/395-4094; darren.willis@bakersfieldcollege.edu
A.S., Bakersfield College
CTE Credential, University of California, Los Angeles

**Wilmot, Melinda**
*Associate Professor, Library*
661/395-4209; melinda.wilmot@bakersfieldcollege.edu
B.A., California State University, Bakersfield
M.L.I.S., San Jose State University

**Wise, Richard**
*Professor, Biological Science and Physical Science*
661/395-4525; rwise@bakersfieldcollege.edu
B.A., University of California, Berkeley
M.S., California State University, Chico

**Wolf, Keri**
*Associate Professor, English*
661/395-4528; keri.wolf@bakersfieldcollege.edu
B.A., California Polytechnic State University, San Luis Obispo
M.A., California State University, Long Beach
Ph.D., University of California, Davis

**Zikri, Murad**
*Professor, Business Management and Information Technology*
661/395-4088; mzikri@bakersfieldcollege.edu
B.S., MBA, University of Khartoum, Sudan
M.B.A., Webster University
Ph.D., Berne University, West Indies

**Zoller, Christian E.**
*Professor, Criminal Justice*
661/395-4484; czoller@bakersfieldcollege.edu
B.A., University of Kansas
J.D., University of San Diego

**Bakersfield College Adjunct Faculty**
Achere, Julius - Nursing
Aiello-Wise, Kathy - Early Childhood Development
Albertson, Kevin - Fire Science/Technology
Alexander, Jacen, - English
Alfaro, Jeorgina - Counseling
Andersen, Glen - Communication
Andersen, Jens-Aref - Engineering & Industrial Technology
Anderson, Cassandra - Counseling
Andrasian, Savannah - English
Ansolabehere, Paul - Agriculture
Armendariz, Bonnie - Business Management/Info Technology
Austin, Marcos - Physical Education
Bailey, Dee - Behavioral Science
Baker, Linda - Behavioral Science
Baltis, Heather - Agriculture
Barrett, Jerome - Communication
Bell, Justin - English
Bellah, Mary - Music
Bethauser, Thomas - Art

Borrego, Andrew - Art
Boyles, Robert - Physical Education
Brandfield, Matthew - Foreign Language
Brian, Cameron - Art
Brown, Sharon - Early Childhood Development
Bruce, Kathleen - Nursing
Bsharah, Steve - Social Science
Buringrud, Lisa - Music
Burnham, Kyle - Music
Burton, Brent - Nursing
Butcher, Fabiola - Communication
Butterfield Davis, Kathryn - Theater Arts
Calderon, Santiago - Foreign Language
Canning, Denise - English
Cantu, Gerald - Philosophy
Carmona, Richard - Mathematics
Casabella, Jeremy - English
Cervantes, Elizabeth - Music
Chapman, William - Academic Development
Chavez, Aaron - Physical Education
Chisholm, Steve - Behavioral Science
Cohen, Mark - Fire Science/Technology
Cohrs, John - Engineering & Industrial Technology
Collins English, Jessica - Academic Development
Cope, Roger - Music
Courtney, Houston - Physical Education
Cronquist, Daniel - Engineering & Industrial Technology
Davies, John - English
DeRosia, Mark - Behavioral Science
Degrandis, Jacqueline - Communication
Delamar, Erika - Physical Education
Delgado, Fernando - Engineering & Industrial Technology
Demos, Julie - Academic Development
Dethlefson, James - Music
Dirkse, Scott - Music
Dison, Christopher - English
Dodgin, Dustin - Communication
Donev, Stefan - Communication
Duarte-Smith, Marcus - Behavioral Science
Dupree, Michael - English
Eagan, Jeffrey - English
Eaton, Jamee - Art
Escudero, Antonio - Foreign Language
Estill, Kristine - Biology
Fahsbender, Douglas - Communication
Feer, Charles - Behavioral Science
Fillbrandt, Jeanne - Mathematics
Findley, Sarah - Nursing
Flachmann, Christopher - Behavioral Science
Forbes, Judy - Fire Science/Technology
Forsythe, Heidi - Communication
Garaygordobil, Eugenio - Communication
Garcia, Britanny - Family & Consumer Education
Garcia, Olivia - Communication
Gardella, Linda - Agriculture
Goehring, Brittney - Physical Education
Gonzalez, Rex - Behavioral Science
Gonzalez, Maria - Family & Consumer Education
Graf, Roger - Physical Science
Graupman, Gary - English
Green, Janice - Foreign Language
Sanchez Avila, Marilynn - Social Science
Sanchez, Isaac - English
Sanchez, Michael - Physical Education
Sanchez, Roberto - Behavioral Science
Scaffidi, Peter - Music
Scaffidi, Susan - Music
Schaefer, Carol - Academic Development
Schwartz, Karl - Engineering & Industrial Technology
Sears, Margaret - Music
Sedgwick, Patricia - Nursing
Shaffer, Vernon - Apprenticeship
Shertzer, Carol - Social Science
Shields, Jonathan - Behavioral Science
Shreffler, Patrick - Fire Science/Technology
Sivesind, Brian - Theater Arts
Skibinski, John - Agriculture
Smiley, Michael - Philosophy
Smith, Gerald - Physical Science
Smith, Janeen - English
Smith, Kellie - Radiologic Technology
Smith, Martin - Agriculture
Smith, Michael - Nursing
Smith, Zebedee - Engineering & Industrial Technology
Stanton, David - Business Management/Info Technology
Stephens, Carrie - Behavioral Science
Stewart, Robert - Engineering & Industrial Technology
Stockton, Dana - Behavioral Science
Stockton, Lonnie - Behavioral Science
Stone, Cynthia - Behavioral Science
Takeuchi, Yuki - Foreign Language
Thomas, David - Apprenticeship
Thomas, Evelyne - Physical Education
Thompson, Cynthia - Nursing
Thompson, Natalie - Behavioral Science
Thorson, Debra - Communication
Thygerson, Nita - Communication
Tiner, Kristoffer - Music
Tomlin, Camille - Social Science
Toorop Bloom, Hedy - Academic Development
Townsend, Annalisa - Academic Development
Tracy, Mark - Engineering & Industrial Technology
Tran, Lianna - English for Multilingual Students
Turner, James - Business Management/Info Technology
Turney, Vickie - Behavioral Science
Upton, Lee - Radiologic Technology
Valadez, Brenda - Communication
Van Kopp, Kristi - Music
Vannasone, Isaac - Mathematics
Wachob, Phyllis - English for Multilingual Students
Wallace, Laurie - Family & Consumer Education
Watts, Garleen - Mathematics
Webdell, Thomas - Business Management/Info Technology
Whitaker, Meghan - Family & Consumer Education
Whitaker, William - Physical Science
Willis, Julie - English
Wilson, Jamie - Communication
Wilson, Veronica - English
Wong, Tiffany - English
Wyatt, Carl - Apprenticeship
Yakoub, Janet - Academic Development
Young, Jeane - Nursing

Young, Karin - Behavioral Science
Young, Kathryn - Early Childhood Development
Young, Penelope - Art

Bakersfield College Retirees
Ackland, John R. - Biological Sciences
Allen, Anna K. - Sociology
Allison, Robert D. - Administration
Allsman, Ronald L. - Bacteriology, Biological Sciences
Anhalt, Mary Jo - Mathematics
Appel, Jacqueline - English
Arakelian, Margaret - Health Careers
Benston, Carol - English
Benston, Richard - English
Blunt, Marlene - Physical Education
Bowers, Sandra - Physical Education
Bowser, Carl - Physical Education
Bowtell, Rita - Business Management & Information Technology
Boyce, Ferris A. - Health Careers
Brailsford, Robert E. - Physical Science
Brannan, Charles - Engineering & Industrial Technology
Brigham, Jack - History and Political Science
Bright, Larry K. - English
Brommelsiek, Patricia - Library
Brooks, Dale W. - Music
Buckley, Margaret - Allied Health
Burr, Arnold H. - Engineering & Industrial Technology
Carden, James F. - Counseling
Clark, Lucy G. - Family & Consumer Education
Clark, Nancy - Family & Consumer Education
Clark, Orelie Louise - Business Management & Information Technology
Collins, Pansi - Counseling
Collis, Gerry - Physical Education
Conner (McGowan), Patricia - English
Copelin, Mary Helen - Speech
Corser, Caroline - Learning Center
Cory, Wallace E. - Social Science
Covey, Robert L. - Health & Physical Education
Cox, Gary E. - Engineering & Industrial Technology
Cunningham, Carol A. - English and ESL
Dabbs, Lowell P. - English
Damron, Duane - Business Management/Info Technology
Davajian, Hooyse Anoosh - Counseling
Davidson, Robin - Mathematics
Davis, Alvin D. - Art
Davis, Earlene - Nutrition, Family & Consumer Education
Davis, Thomas H., III - Social Science
Day, Robert - Maintenance and Operations
DeLeon, Sheran - Allied Health
Dethlefson, Ronald - Speech
Dhariwal, Mita - Sociology
Dietz, Robert C. - Chemistry
Diskin-Mattison, Mary - Business Management & Information Technology
Doolen, Gail - Counseling
Dowdy, Sharon A. - Mathematics
Dowdy, Sharon - Mathematics
Edwards, Nancy Joan - English
Ewing, John L. - Mathematics
Faith, Kenneth E. - Administration
Fanucchi, Larry - Engineering & Industrial Technology
Fleenor, Terry - English
Funk, Robert - Architecture/CAD
Garrett, Clifton - Foreign Language
Garrett, Judith P. - Foreign Language
Gilman, Edith - Allied Health
Glessner, Faye - Business Management & Information Technology
Goodwin, Gregory L. - History, Political Science
Gordon, Edith - Allied Health
Glessner, Faye - Business Management & Information Technology
Goodwin, Gregory L. - History, Political Science
Gerson, Faye - Business Management & Information Technology
Hale, Stephanie - Academic Development
Haner, Jerry L. - Business Management & Information Technology
Haslett, Donald R. - Public Service
Hance, Lawrence K. - Agriculture
Helmstedter, Warren - Business Management & Information Technology
Hench, Irene E. - Library
Hernandez, Jack - Philosophy, Administration
Higgins, Eloise - Family & Consumer Education
Hill, Sally F. - Psychology
Honig, Sasha - History
Howard, Evan D. - English
Hultett, Phyllis - Student Services
Hurlbert, Emily - Academic Development
Jacobson, Lavonda - Nursing
Janeway, Miriam - English
Johnson, Catherine C. - Mathematics
Johnson, Donald - Supportive Services
Johnson, Jane P. - Academic Development, German
Johnson, Walter - Physical Education
Jones, Carl - Automotive Technology
Kellogg, Carolyn - Nursing
Kelsey, Richard - Counseling
Keranen, David M. - Mathematics
Kimler, Tom - Physical Science
Kirchner, Eugene - Physical Science
Kirkland, Olin - Business Management & Information Technology
Kraft, Ralph E. - Physical Education
Lackey, Robert - Electronics
Landon, Norma K. - Health Careers
Lango, Peter M., Sr. - Physical Education
Lewis, Gaylen G. - Social Science
Lockford, Joyce C. - English
Logan, Carolyn P. - Business Management & Information Technology
Ludeke, Jerry L. - Academic Development
Lyman, John C. - Physical Science, Geography, Geology
Lyman, Margaret - Foreign Language
Marquez, Fernando - Business Management & Information Technology
Martinez, Alexa C. - Allied Health, Behavioral Science
McKay, Peter B. - Economics, Business Management & Information Technology
Technology
Meert, Paul - Mathematics
Meier, Bruce N. - History, Business Management & Information Technology
Technology, Business Law
Milliken, Yvonne W. - Administration
Moore, Carol A. - Business Management & Information Technology
Murillo, Daniel J. - Counseling
Naso, Albert - Art
Newton, Joe M. - Physical Education
Newman, David L. - Social Science
Index

A
Academic Credit 36
Academic Development Courses 136
Academic Disqualification 23
Academic Eligibility 17
Academic Freedom 36
Academic Honesty 36
Academic Probation 23, 37
Academic Renewal 37
Academic Standing 23, 37
Academic Success and Progression 22
Accessibility Statement 15
Access to and Confidentiality of Student Records: Privacy Act 15
Accounting Associate in Arts 89
Administrative Office Assistant Associate in Arts 90
Admissions Form 18
Advanced Placement Program 38
Agriculture Business Management Associate in Arts 73
Agriculture Business Management Associate in Science 74
Agriculture Business Management Certificate of Achievement 73
Agriculture Business Management Courses 139
Agriculture Courses 139
Alternate Class Formats 23
American Sign Language Associate in Arts 81
American Sign Language Courses 140
Animal Science Associate in Arts 75
Animal Science Associate in Science 75
Animal Science Certificate of Achievement 74
Animal Science Courses 140
Anthropology 81
Anthropology Courses 142
Applying for Graduation 52
Apprenticeship Associate in Arts 82
Apprenticeship Certificate of Achievement 82
Apprenticeship Courses 143
Architectural Computer Aided Drafting Job Skills Certificate 82
Architectural Drafting Associate in Arts 83
Architectural Drafting Associate in Science 83
Architecture Courses 143
Art Associate in Arts 83
Art Courses 144
Assessment 18
Assessment Center 28, 29
Assessment Policy for Students with Disabilities 18
Associate Degrees 52
Associate Degrees for Transfer 38
Astronomy Courses 147
Athletics 29
Attendance Policies 26
AU-Audit 40
Auditing a Course 23
AutoCAD Job Skills Certificate 112
Auto Engine Overhaul Certificate of Achievement 84
Automotive Heating, Ventilation & Air Conditioning (HVAC) Job Skills Certificate 85
Automotive Management Job Skills Certificate 86
Automotive Power Trains Certificate of Achievement 86
Automotive Technology Courses 148
Auto Tune-Up and Emission Systems Certificate of Achievement 85
B
Bakersfield College Adjunct Faculty 240
Bakersfield College Administration 227
Bakersfield College Retirees 242
Bakersfield College Faculty 228
Bakersfield College General Education Pattern 55
Bakersfield College Values 13
Bakersfield College Vision 13
Basic and Advanced Clean Air Car Course Job Skills Certificate 87
Basic Machine Tool Operations-Lathe, Mill Job Skills Certificate 115
Basic Skills/Precollegiate Coursework 24
Biology Courses 150
Biology - General Biology Associate in Science 87
Biology - Human Biology Associate in Science 88
Blueprint Reading and Layout for Welders Job Skills Certificate 131
Board of Governors Waiver 30
Bookkeeping Certificate of Achievement 91
Books 26
Book Vouchers 30
Business Administration Associate in Arts 91
Business Administration Courses 151
C
Cabinetmaking Certificate of Achievement 133
Cal Grant B 30
Cal Grant C 30
California Nonresident Tuition Exemption 25
California Nonresident Tuition Exemption For Eligible California High School Graduates 25
California Real Estate Certificate of Achievement 91
California Work Opportunities and Responsibility to Kids (CalWORKs) 29
Career Center 30
Catalog Rights 38
Certificate of Achievement 52
Certificates and Degrees 52
Changing Directory Information 18
Changing Identification Numbers 18
Chemistry Associate in Science 92
Chemistry Courses 154
Chief Officer Certification (NFPA Standard 1021) Certificate of Achievement 106
Child Development Assistant Teacher Job Skills Certificate 92
Index

Child Development Associate Teacher Job Skills Certificate 94
Child Development Center 29
Child Development Courses 155
Child Development Master Teacher - Infant Toddler Certificate of Achievement 94
Child Development Master Teacher - Special Education Certificate of Achievement 95
Child Development Teacher Certificate of Achievement 94
Child Nutrition Management Certificate of Achievement 107
Child Nutrition Program Management Option Associate in Science 108
Class Attendance 26
Clinica Sierra Vista-Delano Campus 31
College Fees, Tuition, Books, and Fee Refunds 25
College Level Examination Program (CLEP) 38
Commencement Ceremonies 53
Communication Certificate of Achievement 96
Communication Courses 157
Communication Studies Associate in Arts for Transfer 95
Community College Enrollment Fees 25
Computer Numerical Control Programming Job Skills Certificate 115
Computers for Student Use 30
Computer Studies Courses 158
Construction Technology Certificate of Achievement 97
Construction Technology Courses 161
Control Systems Technology Certificate 116
Cooperative Agencies Resources for Education (CARE) 30, 31
Cooperative Work Experience Education 24
Correctional Administration Associate in Arts 98
Correctional Administration Courses 161
Counseling for Probationary Students 37
Course Admission Policy 21
Credit by Examination 38
Credits Allowed from Other Institutions 38
Criminal Justice Associate in Arts 98
Criminal Justice Courses 167
Crop Science Courses 168
Culinary Arts Associate in Science 109
Culinary Arts Certificate of Achievement 108

D

Dance Courses 169
Dean's List 41
Declaración De Igualdad de Oportunidad 14
Definition of Cheating 37
Definition of Plagiarism 36
Delano Campus 24
Dietetic Services Supervisor Program Certificate of Achievement 109
Disabilities Accessibility Statement 15
Disabled Student Programs & Services 30
Discriminación Ilegal 14
Disqualification 23

E

Early (Priority) Registration Appointments 21
Earth Science Courses 169
Economics Courses 170
Education Courses 170
Electronics Technology Certificate of Achievement 99
Electronics Technology Courses 170
Emergency Medical Technician 1 (EMT-1) Job Skills Certificate 102
Emergency Medical Technician Courses 171
Engineering Associate in Science 102
Engineering Courses 173
Engineering Technology Associate in Science 102
English as a Second Language Courses 176
English Courses 174
Enrollment and Tuition Refunds 26
Environmental Horticulture Associate in Arts 76
Environmental Horticulture Associate in Science 77
Environmental Horticulture Certificate of Achievement 76
Equal Employment Opportunity Statement 14
Equal Opportunity Employment Statement 14
ESL Tutoring 30
Estudiantes Incapacitados 15
Exemptions 21
Extended Learning 23
Extended Opportunity Program and Services (EOP&S) 31

F

Federal Pell Grant 31
Federal Supplemental Educational Opportunity Grant 31
Federal Work Study 31
Final Examinations 39
Financial Aid 30
Financial Assistance 30
Financial Holds 23
Fire Officer Certification (NFPA Standard 1021) Certificate of Achievement 106
Fire Technology Associate in Arts 104
Fire Technology Certificate of Achievement 104
Fire Technology Courses 177
First-Day Drop Policy 26
Food Service Courses 186
Foodservice Management Option Associate in Science 110
Forestry Certificate Program 77
Forestry Associate in Arts 77
Forestry Associate in Science 78
Forestry Certificate of Achievement 77
Forestry Courses 187

G

Gas Metal Arc/Gas Tungsten Arc Welding/Flux Core Arc Welding Job Skills Certificate 131
General Business Job Skills Certificate 91
General Education 53
Index

General Management Job Skills Certificate 91
General Requirements 53
Geography Courses 188
Grace Van Dyke Bird Library 32
Grade Changes 41
Grade Reports 41
Grades and Credits 40
Grading System 40
Graduation 52
Graduation with an Associate Degree 52
Graduation with Honors 41

H
Health Education Courses 189
History Courses 189
History of Bakersfield College 13
Holds that Prevent Registration 23
Honors 41
Human Services Associate in Arts 111
Human Services Courses 191
Human Services Job Skills Certificate 111

I
I-Incomplete 40
Incomplete (Grading System) 40
Industrial Drawing Associate in Arts 112
Industrial Drawing Courses 192
Industrial Technology, Automotive Option Associate in Science 87
Industrial Technology, Construction Option Associate in Science 97
Industrial Technology Courses 192
Industrial Technology, Electronics Option Associate in Science 100
Industrial Technology (General) Associate in Science 113
Industrial Technology, Industrial Drawing Option Associate in Science 112
Industrial Technology, Manufacturing Technology Option Associate in Science 116
Industrial Technology, Welding Option Associate in Science 132
Industrial Technology, Woodworking and Cabinetmaking Option Associate in Science 134
International Baccalaureate Diploma Program 39
International Students 18
Intersegmental General Education Transfer Curriculum (IGETC) 55
IP-In Progress 40

J
Japanese Courses 193
Job Placement Services 31
Journalism Courses 193

L
Learning Center 31
Learning Communities 24
Liberal Arts Associate in Arts 115
Library 32
Library Courses 194
LVN to Associate Degree Nursing Program Associate in Science 119
LVN to Non-Degree Nurse (30 unit option) 121

M
Manufacturing/Machine Technology Courses 195
Manufacturing Technology Certificate of Achievement 116
Mathematics Courses 195
Mathematics, Engineering & Science Achievement (MESA) 32
Maximum Study Load 22
Medical Science Courses 196
Medical Services 31
Mental Health Services 31
Mentoring and Peer Program Services (MAPS) 31
Military Credit 39
Minimum Study Load 22
Multicultural Requirement 53
Music Courses 196

N
Natural Resources Management Courses 201
Non-Resident Tuition 25
Nurse Assistant Job Skills Certificate 122
Nursing Associate in Arts 117
Nutrition Courses 202

O
Office Assistant Certificate of Achievement 90
Office Assistant Job Skills Certificate 89
Ornamental Horticulture Courses 202

P
Parking Fees 26
Passwords 18
Philosophy Associate in Arts 123
Philosophy Courses 203
Phi Theta Kappa Honor Society 41
Physical Education Courses 203
Physical Science Courses 207
Physics Courses 207
Plagiarism and Cheating 36
Plant Science Associate in Arts 79
Plant Science Associate in Science 80
Plant Science Certificate of Achievement 78
Policy Concerning Sexual Harassment 15
Policy for Students whose Primary Language is Not English 21
Political Science Courses 208
Index

Precollegiate Courses 24
Prerequisites 21
President's Re-Entry Scholars Program 41
President's Scholars 41
Principles of Fluoroscopy Job Skills Certificate 129
Principles of Venipuncture Job Skills Certificate 129
Probation 23
Progress Probation 37
Psychology Associate in Arts for Transfer 125
Psychology Courses 209

R
Radiologic Technology Associate in Science 128
Radiologic Technology Courses 212
RD-Report Delayed (Grading System) 41
Refunds 26
Registered Nursing Courses 210
Registered Veterinary Technician Job Skills Certificate 80
Registering for Classes 21
Reinstatement 23, 37
Remedial Coursework Limitation 23
Removal From Probation 23
Repeating a Course 22, 39
Residency Determination 17
Retail Management Certificate of Achievement 91

S
Schedule of Classes 27
Scholarships 31
SGA Discount Card Fees 26
SGA Sticker Card Fee 26
Shielded Metal Arc Welding Job Skills Certificate 132
Sociology Associate in Arts for Transfer 129
Sociology Courses 214
Soil Science Courses 215
Spanish Courses 215
Special Studies Courses 216
Student Center Fee 25
Student Conduct 33
Student Development Courses 217
Student Health and Wellness Program 31
Student Health Fee 25
Student Health Fee Refund 26
Student Loans 30
Student Representation Fee 25
Student Right to Know 13, 14, 15
Student Schedule of Classes 27
Students with Disabilities 15
Studio Arts Associate of Arts Degree for Transfer 81
Study Loads 22
Subject to Disqualification 37

T
Technical Mathematics Courses 217

Tech Prep Program 39
Theatre Arts Courses 217
The IGETC Pattern 46
Transcripts 27
Transfer Center 33

U
Unlawful Discrimination 14

V
Verification of Enrollment 27
Veterans Services 34
Vocational Nursing Courses 218
Vocational Nursing Program Certificate of Achievement 121

W
Waitlists 22
Water Technology Courses 222
Weill Institute 25
Welding Certificate of Achievement 132
Welding Courses 223
What is Transfer 42
Wildland Fire Technology Associate in Science 105
Withdrawing from Classes 27
Withdrawn (Grading System) 40
Woodworking/Cabinetmaking Job Skills Certificate 133
Woodworking Courses 225
WorkAbility III 33
Work Experience Courses 225
World Cultures 53
Writing Center 31
W-Withdrawn 40