

COURSES



Academic Development Courses

ACDV B5 Tutor Training and Practicum

2 units

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 - transfer level.

Description: Essential human relations skills and methods of effective tutoring, placing these skills into practice with tutees referred by the Tutor Coordinator. Student may be referred by subject area instructor(s). NOTE FOR ALL ACDV B5s: Must have instructor's signature to enroll in any ACDV B5 class. In addition to the scheduled hours, students must arrange 48 additional required class hours in SS 203.

Hours: 18 lecture, 54 supervised tutoring

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ACDV B5a Tutor Training and Practicum

1 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 - transfer level.

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. Students may be referred by subject area instructor(s).

Hours: 9 lecture, 27 supervised tutoring

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ACDV B50 Reading for Academic Success

3 units

Prerequisites: Reading - two levels prior to transfer, or successful completion of ACDV B62 or ENSL B51 with grades of 'C' or better.

Description: Recommended for students who have not met the reading competency requirements at entrance or for those who wish to improve their skills in academic reading. Emphasizes critical reading, critical thinking, and reading flexibility with college-level material which may include poetry, short stories, essays, textbook chapters. Focuses on application, analysis, synthesis, and evaluation in both oral and written form. Includes responding, summarizing, and outlining.

Hours: 54 lecture

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. Not degree applicable.

ACDV B55 First Year Student Success

0.5 unit

Description: Introduces the college's academic, social, and physical environments and promotes personal development necessary for student success. To increase their probability of college success, students will locate, navigate, and utilize the campus academic and student services resources. Course covers note-taking, test-taking, textbook reading, effective communication, and time-management skills necessary for college success.

Hours: 9 lecture

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. Not degree applicable.

ACDV B61 Accelerated Reading

4 units

Prerequisites: Reading - three levels prior to transfer

Advisory: ENSL B70 and/or ACDV B201A, and/or ACDV B201B. This course is recommended for students who place at Reading Level 3 or 4 who need to improve academic 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.

Hours: 72 lecture

CCS: Pre-collegiate basic skills.

Transferable: Not transferrable. Not degree applicable.

ACDV B62 Developing Basic Reading Skills

3 units

Prerequisites: Reading - three levels prior to transfer or successful completion of ACDV B91 or ACDV B201a, or ENSL B61 with minimum grades of C.

Recommended: English - three levels prior to transfer or enrollment in ACDV B68 or ACDV B65, or ACDV B201a or successful completion of ENSL B80 with a minimum grade of C.

Description: Recommended for students who need to improve vocabulary and reading comprehension and 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. Practice in application and analysis level thinking skills.

Hours: 54 lecture

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. 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. Note for all ACDV B65 sections: Special materials fee for class magazine. (Summer students not charged a materials fee for the magazine.)

Important: Instructional materials fees will be refunded during the refund period. After that deadline students will be offered the opportunity to pick up their unused materials.

Hours: 36 lecture

CCS: Pre-collegiate basic skills.

Transferable: Not transferrable. 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 for each 1

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. Not degree applicable.

ACDV B70A Study Skills: Time Management

0.5 unit

Recommended: Reading - four levels prior to transfer or satisfactory completion of ACDV B62 with minimum grade of C.

Description: Students may take any or all of the six mini-courses

offered. Each half-unit course is designed to give practical training in studying effectively for college classes. Students work interactively in small groups, whole class and independently through guided instruction and hands-on activities to improve skills in the following areas: Topics: B70A-Time Management; B70b-Note Taking; B70c-Textbook Reading; B70d-Test Taking; B70e- Memory; B70f-Vocabulary.

Note: Offered Pass/No Pass grading only.

Hours: 9 lecture, 6 laboratory

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. Not degree applicable.

ACDV B70B Study Skills: Note Taking

0.5 unit

Recommended: Reading - four levels prior to transfer or satisfactory completion of ACDV B62 with minimum grade of C.

Description: Students may take any or all of the six mini-courses offered. Each half-unit course is designed to give practical training in studying effectively for college classes. Students work interactively in small groups, whole class and independently through guided instruction and hands-on activities to improve skills in the following areas:

Topics: ACDV B70a-Time Management, ACDV B70b-Note Taking, ACDV B70c-Textbook Reading, ACDV B70d-Test Taking, ACDV B70e-Memory, ACDV B70f-Vocabulary.

Note: Offered Pass/No Pass grading only.

Hours: 9 lecture, 6 laboratory

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. Not degree applicable.

ACDV B70C Study Skills: Textbook Reading

0.5 unit

Recommended: Reading - four levels prior to transfer or satisfactory completion of ACDV B62 with minimum grade of C.

Description: Students may take any or all of the six mini-courses offered. Each half-unit course is designed to give practical training in studying effectively for college classes. Students interactively work in small groups, whole class and independently through guided instruction and hands-on activities to improve skills in the following areas:

Topics: ACDV B70a-Time Management, ACDV B70b-Note Taking, ACDV B70c-Textbook Reading, ACDV B70d-Test Taking, ACDV B70e-Memory, ACDV B70f-Vocabulary.

Note: Offered Pass/No Pass grading only.

Hours: 9 lecture, 6 laboratory

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. Not degree applicable.

ACDV B70D Study Skills: Test Taking

0.5 unit

Recommended: Reading - four levels prior to transfer or satisfactory completion of ACDV B62 with minimum grade of C.

Description: Students may take any or all of the six mini-courses offered. Each half-unit course is designed to give practical training in studying effectively for the college classes. ACDV B70d-Test Taking, offered Credit/No Credit grading.

Hours: 9 lecture, 6 laboratory

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. Not degree applicable.

ACDV B70E Study Skills: Memory

0.5 unit

Recommended: Reading - four levels prior to transfer or satisfactory completion of ACDV B62 with minimum grade of C.

Description: Students may take any or all of the six mini-courses offered. Each half-unit course is designed to give practical training in studying effectively for college classes. ACDV B70e-Memory, offered Credit/No Credit grading.

Hours: 9 lecture, 6 laboratory

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. Not degree applicable.

ACDV B70F Study Skills: Vocabulary

0.5 unit

Recommended: Reading - four levels prior to transfer or satisfactory completion of ACDV B62 with minimum grade of C.

Description: Students may take any or all of the six mini-courses offered. Each half-unit course is designed to give practical training in studying effectively for college classes. ACDV B70f-Vocabulary, offered Credit/No Credit grading.

Hours: 9 lecture, 6 laboratory

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. 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 transferrable. 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 transferrable. 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. May be repeated one (1) time.

Hours: 54 lecture

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. Not degree applicable.

ACDV B201A Communication Skills: Reading

0.5-1 unit

Description: Individually prescribed lessons in spelling, reading, vocabulary development, study skills, critical thinking and/or English. Supervised repetition and practice in the laboratory on assigned tasks which may range from general communication skills to specific problems. NOTE FOR ALL ACDV B200 SERIES COURSES: Courses numbered in the B201 and B281 series are open entry/open exit. Students should report to SS 143 as soon as possible to find out course requirements.

Repeat: 1

Hours: 27 for each .5

CCS: Pre-collegiate basic skills

Transferable: Not transferrable. Not degree applicable.

ACDV B201B Communication Skills: Writing*0.5-1 unit*

Description: Individually prescribed lessons in spelling, reading, vocabulary development, study skills, critical thinking and/or English. Supervised repetition and practice in the laboratory on assigned tasks which may range from general communication skills to specific problems. NOTE FOR ALL ACDV B200 SERIES COURSES: Courses numbered in the B201 and B281 series are open entry/open exit lab courses. Students should report to SS 143 as soon as possible to find out course requirements.

Note: ACDV B201B is recommended as a supplement to all English and Academic Development classes.

Repeat: 1**Hours:** 27 for each .5, maximum of 1 unit**CCS:** Pre-collegiate basic skills**Transferable:** Not transferrable. Not degree applicable.**ACDV B201C Developing Basic Math Skills***0.5-1 unit*

Description: Individually prescribed lessons in basic math skills from number systems through advanced algebra. Supervised repetition and practice in the laboratory on assigned lessons and assessments.

Hours: 27 for each .5, maximum of 1 unit**Repeat:** 3**CCS:** Pre-collegiate basic skills**Transferable:** Not transferrable. Not degree applicable.**ACDV B280 Supervised Tutoring***0 unit*

Description: Provides tutoring in various academic subjects, conducted in a designated learning center, to augment classroom instruction. Referral by subject-area instructor, counselor, or tutor trainer is suggested.

Note: Weekly hours are decided jointly by the instructor and student. Students cannot register by telephone or the web for this course; see instructor in SS 203 to complete enrollment. Open entry/open exit.

Hours: 1 to 54**Repeat:** unlimited**CCS:** Pre-collegiate basic skills**Transferable:** Associate Degree only. Not transferrable.**ACDV B281A Supervised Tutoring-Computer: Reading***0 unit*

Description: Provides tutoring in various academic subjects, conducted in a computer lab, to augment classroom instruction. Open entry/open exit.

Note: Weekly hours are decided jointly by the instructor and students. Students cannot register by the web for this section; see instructor in SS 143 to complete enrollment.

Hours: 1 to 85**Repeat:** unlimited**CCS:** Pre-collegiate basic skills**Transferable:** Associate Degree only. Not transferrable.**ACDV B281B Supervised Tutoring-Computer: Writing***0 unit*

Description: Provides tutoring in various academic subjects, conducted in a computer lab, to augment classroom instruction. Open entry/open exit.

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 to 85**Repeat:** unlimited**CCS:** Pre-collegiate basic skills**Transferable:** Associate Degree only. Not transferrable.**ACDV B281C Supervised Tutoring-Computer: Mathematics***0 unit*

Description: Provides tutoring in various academic subjects, conducted in a computer lab, to augment classroom instruction. Open exit/open exit.

Note: Weekly hours are decided jointly by the instructor and student. Student cannot register by the web for this course; see instructor in SS 143 to complete enrollment.

Hours: 1**Repeat:** unlimited**CCS:** Pre-collegiate basic skills**Transferable:** Associate Degree only. Not transferrable.**ACDV B290 Adaptive Computer Access/Disabled***0.5-2 units*

Prerequisites: Admission to Supportive Services Center Program, evaluation by Supportive Services counselor or Learning Disabilities instructor.

Hours: 27 for each .5**Repeat:** 4, maximum of 2 units**CCS:** Pre-collegiate basic skills**Transferable:** Not transferrable. Not degree applicable.**ACDV B292 Spelling***0.5-1 unit*

Description: Recommended for students who have persistent spelling problems. Individually prescribed laboratory work with tapes and exercises.

Note: Open entry/open exit within a semester but not beyond a semester.

Hours: 27 for each .5**Repeat:** 1**CCS:** Pre-collegiate basic skills**Transferable:** Not transferrable. Not degree applicable.**Administration of Justice Courses****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, 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 (POST) requirements.

Hours: 30 lecture, 10 laboratory**Repeat:** unlimited**CCS:** Occupational Education**Transferable:** Not transferrable. Not degree applicable.**ADMJ B61 PC 832 Firearms Training***0.5 unit*

Prerequisites: ADMJ B60 with minimum grade of C.

Description: Provides students with the competencies required for certification by Peace Officer Standards and Training (POST) 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: 8 lecture, 16 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Not transferrable. Not degree applicable.

ADMJ B62 Campus Security Supervisor

1 unit

Description: Provides students with the required competencies in accordance with SB 1626.

Hours: 16 lecture, 16 laboratory

CCS: Occupational Education

Transferable: Not transferrable. Not degree applicable.

ADMJ B63 Bureau of Security and Investigative Services Occupational License (BSIS-Security Guard)

0.2 unit

Description: Provide the student 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: 8 lecture

Repeat: unlimited

CCS: Occupational Education

Transferable: Not transferrable. Not degree applicable.

ADMJ B65 Emergency/Commercial License Preparation

1 unit

Description: Designed to prepare students for taking the California Class A/B written driving test, thereby enabling the successful examinee to obtain a California Class A/B learner permit.

Hours: 24 lecture, 16 laboratory

CCS: Occupational Education

Transferable: Not transferrable. Not degree applicable.

ADMJ B75 Diversity in the Workplace

3 units

Recommended: Reading - one level prior to transfer.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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 transferrable. 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 agricultures economic position.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

AGBS B6 Agriculture Sales and Communication

3 units

Advisory 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

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.

Note: Elective credit only.

Hours: 18 lecture, 54 laboratory

Repeat: none

CCS: Occupational Education

Transferable: CSU and private colleges

American Sign Language Courses

ASL B1 American Sign Language 1*5 units***Recommended:** Reading - one level prior to transfer.**Description:** Study of fundamentals of American Sign Language (ASL). Introduces the 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 with video tape programs. Field trips required.**Hours:** 90 lecture**CCS:** Liberal Arts/Science**Transferable:** UC, CSU and private colleges**ASL B2 American Sign Language 2***5 units***Prerequisites:** ASL B1 with a grade of 'C' or better.**Recommended:** Reading - one level prior to transfer.**Description:** Continued study of the fundamentals of American Sign Language. Emphasizes grammatical structure, various sentence types, giving directions, conceptual accuracy, vocabulary, verb agreement, and increased fingerspelling and numerical proficiency. Further development of conversational strategies. Exploration of Deaf culture emphasizing Deaf history in the United States. Field trips required.**Hours:** 90 lecture**CCS:** Liberal Arts/Science**Transferable:** UC, CSU and private colleges**ASL B3 American Sign Language 3***5 units***Prerequisites:** ASL B2 with a grade of 'C' or better.**Recommended:** Reading - one level prior to transfer.**Description:** Study of advanced aspects of American Sign Language. Emphasizes advanced conversational fluency in ASL along with intensive work on comprehensive skills and grammatical structure. Focus on temporal aspects, conditional clauses, pronouns, and non-manual indicators. Discussion of various aspects of American Deaf culture with focus on literary tradition. Field trips required.**Hours:** 90 lecture**CCS:** Liberal Arts/Science**Transferable:** UC, CSU and private colleges**ASL B4 American Sign Language 4***5 units***Prerequisites:** ASL B3 with a grade of 'C' or better.**Recommended:** Reading - one level prior to transfer.**Description:** Advanced study of American Sign Language. Emphasis is on receptive and expressive conversational fluency and contrasting hearing and Deaf rhetorical approaches. Focus on specific linguistic aspects of ASL, such as classifiers and role-shifting. Advanced practice with receptive and expressive fingerspelling. Also includes issues pertinent to Deaf culture.**Note:** Field trips required.**Hours:** 90 lecture**CCS:** Liberal Arts/Science**Transferable:** UC, CSU and private colleges**ASL B6 American Deaf Culture***3 units***Prerequisites:** ASL B1 with a grade of 'C' or better.**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.

Note: Field trips required.**Hours:** 54 lecture**CCS:** Liberal Arts/Science**Transferable:** UC, CSU and private colleges**ASL B7 ASL Literature and Performance***3 units***Prerequisites:** ASL B2 (with a grade of 'C' or better). Community performance required.**Description:** Exploration and analysis of storytelling, folklore, poetry, and music of the American Deaf community. Analysis and interpretation of musical lyrics into visual concepts; study and performance of ASL poetry, hand-shape and ABC stories. Study of Deaf folklore and other forms of oral storytelling traditions.**Note:** Field trips required.**Hours:** 54 lecture**CCS:** Liberal Arts/Science**Transferable:** CSU and private colleges**Animal Science Courses****ANSC B1 Introduction to Animal Science***3 units*

Advisory 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**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, nutrition, health management, handling, and processing will be defined, analyzed, and applied.**Hours:** 36 lecture, 54 laboratory**CCS:** Occupational Education**Transferable:** CSU and private colleges**ANSC B3 Sheep Production***3 units***Recommended:** Reading - one level prior to transfer and algebra.**Description:** Defines and appraises all segments of the sheep industry, focusing on production, reproduction, marketing, and wool. History of the development of important breeds and their contribution to the U.S. sheep industry will be emphasized. Selection, nutrition, health management, handling and processing will be defined, analyzed, and applied.**Hours:** 36 lecture, 54 laboratory**CCS:** Occupational Education**Transferable:** CSU and private colleges**ANSC B4 Dairy Production***3 units***Recommended:** Reading - one level prior to transfer and algebra.

Description: Defines and appraises all segments of the dairy industry focusing on production, reproduction, marketing, and milk/dairy processing. History and the development of important breeds and their contribution to the U.S. industry will be emphasized. Selection, nutrition, health management, handling, and processing will be defined, analyzed, and applied.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

ANSC B5 Swine Production

3 units

Recommended: Reading - one level prior to transfer and high school algebra with a grade of 'C' or better.

Description: Application of the principles of nutrition, physiology, herd selection, breeding, and marketing to swine production and management. Structure of the industry, enterprise establishment, systems of production, production practices and herd improvement programs will be discussed. Evaluation of production responses and economic returns will be defined, analyzed, and applied.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

ANSC B6 Applied Animal Nutrition

4 units

Recommended: Reading - one level prior to transfer and algebra.

Description: Covers fundamentals of feeding livestock, including feed composition, feed nutrients, and values, digestive systems of major livestock species and their utilization of feedstuffs, ration balancing, computer analysis of feed, and least cost formulation.

Hours: 54 lecture, 54 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

ANSC B7 Animal Diseases

3 units

Description: 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

CCS: Occupational Education

Transferable: CSU and private colleges

ANSC B10 Horse Production

3 units

Recommended: ANSC B1. Reading - one level prior to transfer.

Description: Survey of the equine industry, encompassing the evolution and role of the equine species throughout history, breed selection and development, nutrition, disease, preventative health, reproductive management, basic horsemanship, and stabling alternatives. Laboratory required. Field Trips.(C-ID AG-AS 116L)

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

ANSC B11 Livestock Selection and Evaluation

3 units

Description: Detailed analysis of visual, analytical, and physical methods of appraising beef, sheep, swine and horses concerning functional and economic value; written and oral summaries of evaluation; specific reference made to performance data and factors de-

termining carcass value. Laboratory required.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: UC, CSU and private colleges

ANSC B22 Animals and Society

3 units

Recommended: Reading - one level prior to transfer.

Description: Deals with the human/animal bond and the positive/controversial aspects of animals in human lives. Includes topics covering the scientific and psychological implications of animals in our society. Students will encounter and analyze social and ethical issues that affect society and veterinary medicine.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

ANSC B83 Introduction to Veterinary Technology

4 units

Description: Introductory course designed to orient and instruct students in knowledge required for success in advanced veterinary technology courses. Topics include: anatomy and physiology of domestic animals (Integumentary, cardiovascular, respiratory, reproductive, gastrointestinal, and neurological systems), nutrition, pharmacology, basics of chemistry, biology, microbiology, (including cellular anatomy/physiology), genetics and heredity, and career opportunities. Medical terminology, regulations, office management and record keeping skills are also covered, as they pertain to working in a veterinary practice. Field trips may be required.

Note: formerly ANSC B80 and ANSC B82.

Hours: 72 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

ANSC B84 Small Animal Diseases

1.5 units

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 transferrable.

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 transferrable.

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:** Intended to instruct students with required knowledge of pharmacological and biological agents used in veterinary medicine, mycological 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:** Occupational Education**Transferable:** Associate Degree only, Not transferrable.**ANSC B88 Surgery, Dental, and Anesthesiology for Veterinary Technicians***1.5 units***Prerequisites:** Either ANSC B83 or ANSC B80 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 transferrable.**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 of emergency procedures for veterinary technicians, including client management, triage, supportive therapy, medicine and surgery for the peracutely ill patient. Nursing procedures as they relate to emergency and non-emergency care will be presented, including bandaging, splitting, casting, and fluid therapy.**Hours:** 36 lecture**CCS:** Occupational Education**Transferable:** Associate Degree only. Not transferrable.**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 transferrable.**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 transferrable.**ANSC B96 Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology***1.5 units***Description:** Course is 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:** Occupational Education**Transferable:** Associate Degree only. Not transferrable.**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**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**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

Transferable: UC, CSU and private colleges

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

ANTH B21 Special Projects/Anthropology

1 unit

Recommended: ANTH B1 or ANTH B2 with a minimum grade of 'B', and evaluation by instructor.

Description: Application of anthropological knowledge and techniques to real world situations through (a) the formulation and completion of an anthropological research project, or (b) complete an Internship by working for local museums or similar organizations, engaging in a variety of tasks related to one or more areas of anthropology.

Note: Enrollment limitations for students who have successfully completed ANTH B21a, 21b, 21c and/or 21d.

Hours: 54 laboratory

Repeat: none

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

Apprenticeship Courses

Apprenticeship classes are designed for apprentices actively employed in the fields and indentured under the Shelley-Maloney Apprenticeship Act. The apprentice agreement states that the student will supplement on-the-job training with related classroom instruction each year of his or her apprenticeship. Registration in any vocational education program is offered without regard to race, color, national origin, sex, or disability. Also, the lack of English language skills will not be a barrier to admission and participation in any Bakersfield College vocational education program. For registration information contact the Bakersfield College Apprenticeship Program at (661) 395-4408.

APPR B55-1 Carpentry P.E.T.S.

2 units

Hours: 26 lecture, 54 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

APPR B56-1 Operating Engineers/E.O.

3 units

Prerequisites: Indentured operating engineer apprentice or journeyperson.

Hours: 26 lecture, 54 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

APPR B56-2 Operating Engineers/E.O.

3 units

Prerequisites: Indentured operating engineer apprentice or journeyperson.

Hours: 26 lecture, 54 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

APPR B56-3 Operating Engineers/E.O.

3 units

Prerequisites: Indentured operating engineer apprentice or journeyperson.

Hours: 26 lecture, 54 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

APPR B56-4 Operating Engineers/E.O.

3 units

Prerequisites: Indentured operating engineer apprentice or journeyperson.

Hours: 26 lecture, 54 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

APPR B56-5 Operating Engineers/E.O.

3 units

Prerequisites: Indentured operating engineer apprentice or journeyperson.

Hours: 26 lecture, 54 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

APPR B56-6 Operating Engineers/H.D.R.

3 units

Prerequisites: Indentured operating engineer apprentice or journeyperson.

Hours: 26 lecture, 54 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

APPR B56-7 Operating Engineers/H.D.R.

3 units

Prerequisites: Indentured operating engineer apprentice or journeyperson.

Hours: 26 lecture, 54 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

APPR B56-8 Operating Engineers/H.D.R.

3 units

Prerequisites: Indentured operating engineer apprentice or journeyperson.

Hours: 26 lecture, 54 laboratory

Repeat: unlimited
CCS: Occupational Education
Transferable: Associate Degree only. Not transferrable.

APPR B56-9 Operating Engineers/H.D.R.

3 units

Prerequisites: Indentured operating engineer apprentice or journey person.

Hours: 26 lecture, 54 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

APPR B56HM Operating Engineers-Hazardous Materials

2 units

Prerequisites: Indentured operating engineer apprentice or journey person.

Hours: 37.5 lecture, 2.5 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

APPR B56-10 Operating Engineers/H.D.R.

3 units

Prerequisites: Indentured operating engineer apprentice or journey person.

Hours: 26 lecture, 54 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

APPR B56-11 Operating Engineers/H.D.R.

3 units

Prerequisites: Indentured operating engineer apprentice or journey person.

Hours: 26 lecture, 54 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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

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. Field trips required.

Description: Theories, principles, methods and means pertaining to the creation of two- and three-dimensional visual organizations to communicate intended concepts and meanings.

Hours: 36 lecture, 108 laboratory

CCS: Occupational Education

Transferable: UC, CSU and private colleges

ARCH B22 Architecture Design Fundamentals II

4 units

Prerequisites: ARCH B21 with a grade of 'C' or better. Field trips required.

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.

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.

Hours: 36 lecture, 108 laboratory

CCS: Occupational Education

Transferable: 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.

Hours: 27 lecture, 81 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

ARCH B55 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 transferrable.

ARCH B56 Commercial Building 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 B55 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 transferrable.

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: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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. Non repeatable.

Hours: 27 lecture, 81 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ART B2a Basic Drawing

1.5 units

Recommended: Reading - one level prior to transfer.

Description: A foundation in seeing through drawing. Emphasizes major theories and techniques in understanding composition and form. Systematic examination of graphic elements, their formal properties, relations and functions in the organization of graphic structures. Development of drawing as a medium of expression.

Hours: 54 supervised tutoring

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ART B2AB Basic Drawing

3 units

Recommended: Reading - one level prior to transfer. CAN Code: ART 8

Description: A foundation in seeing through drawing. Emphasizes major theories and techniques in understanding composition and form. Systematic examination of graphic elements, their formal properties, relations and function in the organization of graphic structures. Development of drawing as a medium of expression.

Hours: 54 lecture, 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ART B2B Basic Drawing

1.5 units

Description: A foundation in seeing through drawing. Emphasizes major theories and techniques in understanding composition and form. Systematic examination of graphic elements, their formal properties, relations and functions in the organization of graphic structures. Development of drawing as a medium of expression.

Hours: 54 supervised tutoring

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

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. Not open to students with credit in ART B3a, B3b, or ART B3ab.

Hours: 27 lecture, 81 laboratory

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

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

Transferable: UC, CSU and private colleges

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: Introduces the use of acrylic paint as an expressive medium. Tools, techniques, compositional elements, color theory, and craftsmanship as applied to painting are covered. Not open to students who have taken ART B4a, B4b or ART B4ab.

Hours: 27 lecture, 81 laboratory

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ART B7 Acrylic Painting II

3 units

Prerequisites: ART B6 with a grade of 'C' or better.

Description: Continuation of ART B6. Students review and refine techniques using acrylic paint as an expressive medium. Emphasis is placed upon personal explorations. Not open to students who have taken ART B4c, B4d, or ART B4cd.

Hours: 27 lecture, 81 laboratory

CCS: Liberal Arts/Science

Transferable: 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 an understanding of the structure, anatomy, and expression of the human figure. Media may include pencil, ink, charcoal conte, pastels, and watercolor. Not open to students who have taken ART B2e, B2f or ART B2ef.

Hours: 27 lecture, 81 laboratory

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ART B9 Figure Drawing II

3 units

Prerequisites: ART B8 with a grade of 'C' or better, or equivalent (ART B2ef with grades 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 a more personal expression of the human figure. Media may include pencil, ink, charcoal, conte, pastels, and watercolor. Not open to students who have successfully completed ART B2g, B2h, or ART B2gh.

Hours: 27 lecture, 81 laboratory

CCS: Liberal Arts/Science

Transferable: 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. 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

ART B11 Ceramics II

3 units

Prerequisites: ART B10 with a grade of 'C' or better or ART B7a, B7b, or ART B7ab with grades of 'C' or better.

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. 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: Liberal Arts/Science

Transferable: CSU and private colleges

ART B12 Ceramics III

3 units

Prerequisites: ART B11 or ART B7cd with a grade of 'C' or better, or ART B7c and ART B7d with grades 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. 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: Liberal Arts/Science

Transferable: CSU and private colleges

ART B13 Sculpture I

3 units

Prerequisites: ART B5 (Three Dimensional Design).

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. Not open to students who have successfully completed ART B11a and B11b, or ART B11ab.

Hours: 27 lecture, 81 laboratory

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ART B13C Printmaking: Intaglio/Monoprint

1.5 units

Recommended: Reading - one level prior to transfer.

Description: Expressive potential of the fine art print through the knowledge gained in intaglio and monotype printing techniques.

Hours: 54 supervised tutoring

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ART B13CD Beginning Printmaking: Intaglio/Monoprint

3 units

Recommended: Reading - one level prior to transfer.

Description: B13c-B13d (1.5-1.5) equivalent to B13cd. Expressive potential of the fine art print through the knowledge gained in intaglio and monotype printing techniques.

Hours: 54 lecture, 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ART B13D Printmaking: Intaglio/Monoprint

1.5 units

Prerequisites: ART B13c with a grade of C.

Description: Expressive potential of the fine art print through the knowledge gained in intaglio and monotype printing techniques.

Hours: 54 supervised tutoring

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ART B14 Sculpture II

3 units

Prerequisites: ART B16 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. Not open to students who have successfully completed ART B11cd.

Hours: 27 lecture, 81 laboratory

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ART B15A Advertising Graphics

1.5 units

Recommended: Reading - one level prior to transfer.

Hours: 54 supervised tutoring

CCS: Occupational Education

Transferable: CSU and private colleges

ART B15C Advertising Graphics

1.5 units

Recommended: Reading - one level prior to transfer.

Hours: 54 supervised tutoring

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ART B16 Digital Photography

3 units

Recommended: Reading - one level prior to transfer.

Description: Introduction to the possibilities of digital photography. Topics covered include digital cameras, scanning, printing, color management and file management. Students create original images for use in class, and explore photo manipulation with raster software. A suitable digital camera is required.

Materials Fee: \$15.00 covers cost of ink and paper for printing student projects. Students receive a portfolio of prints.

Hours: 27 lecture, 81 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ART B17 Black and White Photography

142

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 enlarging. Photographic quality, exploration of the photographers environment, and personal expression is emphasized. A suitable 35mm film camera is required. Not open to students who have successfully completed ART B17ab, or ART B17a and B17b.

Hours: 27 lecture, 81 laboratory

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

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

ART B24 Digital Art II - Raster Art

3 units

Recommended: Reading - 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

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 investigating of structure, format, legibility, and expression.

Material 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 B29 Special Studies in Art

1-3 units

Prerequisites: Limitation on Enrollment (e.g. Performance tryout or audition). Student must have successfully completed a sequence of courses; and have approval by professor after a portfolio review.

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: for each 1

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ART B35 Survey of Western Art I

3 units

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Course is a historical survey of western architecture and visual arts beginning in the Paleolithic age (30,000 BC) and continuing through Proto-Renaissance (1400 CE).

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ART B36 Survey of Western Art II

3 units

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Course is a historical survey of the western architecture and visual arts from 1400 CE to the present day.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

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 who have taken the equivalent courses, CHST B30e or ART B30e.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

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. Formerly ART B22. 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 B41 Advertising Design

3 units

Prerequisites: ART B20, B24 and ART B25 with grades of 'C' or better.

Recommended: Reading - one level prior to transfer.

Description: course focuses on the design of advertising. Through concept development, type and images, students create original advertising solutions. A broad study of advertising media will be explored. Not open to students who have successfully completed ART B23.

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: CSU and private colleges

ART B42 Graphic Design

3 units

Prerequisites: ART B40 and ART B41

Recommended: Reading - one level prior to transfer.

Description: Course in design with an emphasis on visual communication. Through concept development, type, and images, students create original design solutions. Identify ad branding development is introduced. Project based course. Students progress at their own speed through projects, which are developed with increasing technical complexity. Not open to students with credit in ART B21.

Hours: 27 lecture, 81 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

ART B46 Advanced Photography I

3 units

Prerequisites: ART B16, or ART B17 with grades of 'C' or better.

Recommended: Reading - one level prior to transfer.

Description: Course focus is on review and refinement of photography skills, with an emphasis on personal expression. A suitable SLR camera is required.

Hours: 27 lecture, 81 laboratory

CCS: Occupational Education

Transferable: UC, CSU and private colleges

ART B47 Advanced Photography II

3 units

Prerequisites: ART B46 or B17cd with grades of 'C' or better.

Recommended: Reading - one level prior to transfer.

Description: Course is study of photography in an area of specialized and personal interest. Advanced work is done in camera technique, printing practices and studio lighting. Students create technically proficient work of an expressive and original nature. A suitable SLR camera is required.

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 B17gh or ART B47 with grades 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.

Hours: for each 1

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: MATH BA or MATH B60 with a grade of 'C' or equivalent.

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 process and philosophy of science is examined from the astronomical perspective. Among topics include: 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 structures; astronomical instruments; brief history of astronomy; Newton's law of gravity; general relativity.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ASTR B2 Life in the Universe

3 units

Prerequisites: Reading - one level prior to transfer.

Recommended: Math BA or MATH B60 with a grade of 'C' or better.

Description: Introductory course on the scientific search for life in the universe. The process and philosophy of science is 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 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ASTR B3 Solar System

3 units

Prerequisites: Reading - one level prior to transfer.

Recommended: Math BA or MATH B60 with a grade of 'C' or better.

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: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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 1) 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, 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 B75A but includes more lab hours. The extended lab time offers a greater degree of practical experience.

Hours: 108 lecture, 162 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 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.

Material Fee: \$10.00 for Hazmat removal, solvents and cleaners.

Hours: 108 lecture, 162 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges, elective credit only

AUTO B3 Fundamentals of Automotive Management and Services

4 units

Recommended: AUTO B1a with a grade of 'C' or better, and Reading - one level prior to transfer.

Description: 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. Positions are: 1) Service Writer/Advisor, 2) Parts-Sales and Service (Parts Counter Person), 3) Warranty Specialist and 4) DMV Specialist.

Hours: 54 lecture, 54 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges, elective credit only

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 au-

tomotive 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

Repeat: 2

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 B50A Diesel and Heavy Equipment Technician Training

3.5 units

Description: Repair service on heavy equipment. Emphasizes maintenance, repair, trouble-shooting, design, safety, tool usage, welding and air conditioning.

Hours: 32 lecture, 96 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

AUTO B50AB Diesel and Heavy Equipment Technician Training

7 units

Description: Repair service on heavy equipment. Emphasizes maintenance, repair, trouble-shooting, design, safety, tool usage, welding and air conditioning. Not open to students with credit in AUTO B50A or AUTO B50B or AUTO B80..

Hours: 64 lecture, 192 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

AUTO B50B Diesel and Heavy Equipment Technician Training

3.5 units

Description: Repair service on heavy equipment. Emphasizes maintenance, repair, trouble-shooting, design, safety, tool usage, welding and air conditioning.

Hours: 32 lecture, 96 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

AUTO B56B 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

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

AUTO B59 Automotive Air Conditioning

4 units

Recommended: Reading - one level prior to transfer

Description: 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.

Hours: 54 lecture, 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

AUTO B61 Basic and Enhanced Area Clean Air Car

4 units

Recommended: 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.

Description: Course prepares student to take the California State Smog Test. Helps prepare student to take the ASE A-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.

Hours: 54 lecture, 54 laboratory

CCS: Occupational Education

AUTO B64 Auto Electricity and Electronics

4 units

Recommended: Reading - one level prior to transfer.

Description: Fundamentals of automotive electronics and electrical components including ignitions, computers, batteries, alternators, and starters. Laboratory emphasis on testing and servicing of electrical equipment. Prepares for ASE A6 exam.

Hours: 54 lecture, 54 laboratory

CCS: Occupational Education

AUTO B67A,B,C Motor Sports Dynamics/Technical Preparation

1-1-1 units

Recommended: Reading - one level prior to transfer.

Description: Explores operation and diagnosis of race car suspension and engine performance. Explores the various methods of race team management and organization

Hours: 54 lecture (18 per unit)

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

AUTO B75A Introduction to Engine Overhaul

3 units

Recommended: AUTO B1ab

Description: 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 & 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. Practice in engine overhaul procedures and mechanical problems diagnosis.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

AUTO B75B Engine Repair Techniques

3 units

Prerequisites: AUTO B75a with a grade of 'C' or higher.

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. 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.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

AUTO B75C Advanced Engine Overhaul

3 units

Prerequisites: AUTO B75b with a grade of 'C' or better.

Description: 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.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

AUTO B75D Advanced Engine Machining

3 units

Prerequisites: AUTO B75c with a grade of 'C' or better.

Description: 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 & 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.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

AUTO B76 Performance Engine Building

2 units

Prerequisites: AUTO B2a and AUTO B2b, or AUTO B75a, B75b, B75c, B75d all with grades of 'C' or better.

Description: Theory of high performance engines and machining skills necessary to modify stock production engines for maximum output. Test sessions at local racetrack will show applied theory and skills.

Hours: 18 lecture, 36 laboratory

Repeat: 1

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

AUTO B90 Automotive Maintenance and Repair

6 units

Description: Engine components, chassis, brake, air conditioning services and basic engine tune-up.

Hours: 48 lecture, 144 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

AUTO B106 Auto Brakes, Suspension, Steering, and Alignment

9 units

Prerequisites: AUTO B1ab, or AUTO B14, or AUTO B15, or AUTO B64, with grades of 'C' or better.

Recommended: Reading - one level prior to transfer

Description: 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.

Hours: 108 lecture, 162 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

AUTO B112 Auto Transmission and Gear Boxes

9 units

Prerequisites: AUTO B1ab, or AUTO B64a, or AUTO B14, or AUTO B15, with grades of 'C' or better.

Recommended: Reading - one level prior to transfer

Description: Automotive transmissions and transaxles, computer controls, 2, 3, and 4 speed transmissions, override, and all related components. Also covers standard transmissions and transaxles, clutches, U joints, differentials, and all related components. Successful completion should enable student to pass the National Institute of Service Excellence test.

Note: Not open to students who have received a satisfactory grade in both AUTO B12a and AUTO B112b.

Hours: 108 lecture, 162 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

Biology Courses

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

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

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

Transferable: CSU and private colleges

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.

Note: Field trips may be required.

Hours: 54 lecture, 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

BIOL B16 General Microbiology

5 units

Prerequisites: Reading - one level prior to transfer. Any college level chemistry and any college level biology course with a grade of 'C' or better.

Description: Introduction to the study of microorganisms. Topics include: survey of microorganisms, history, physical and chemical agents, bacterial genetics, bacterial metabolism, bacterial diseases by transmission, fungal and protozoal infections, viral diseases, immunology, public health and epidemiology, nosocomial infections, biogenetic engineering, applications to food, water and sewage treatment. Field trips required.

Hours: 54 lecture, 108 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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: Liberal Arts/Science

Transferable: CSU and private colleges

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

BIOL B21 Special Projects in Biology

0.5-2 units

Prerequisites: Any college biology course with grades of 'C' or better and Reading - one level prior to transfer.

Repeat: 3 or until a limit of 4 units is reached.

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

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU 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 course providing the necessary foundation required for BIOL B33. The course covers the principles of human anatomy and physiology, emphasizing the integration of structure, function, and maintenance of homeostasis. Topics are anatomical terminology, body chemistry, histology, articulations, and the following systems: integumentary, skeletal, muscular, central and peripheral nervous, and special senses. Both BIOL B32 and BIOL B33 must be taken to study all the major body systems. This series meets the diverse needs of students seeking careers in such allied health fields as nursing, pharmacy, and physician's assistant.

Hours: 54 lecture, 54 laboratory

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

BIOL B33 Human Anatomy/Physiology II

4 units

Prerequisites: BIOL B32 with a grade of 'C' or better and Reading - one level prior to transfer.

Description: This is the second part of a two-semester integrated anatomy and physiology course that covers the principles of human anatomy and physiology, emphasizing the integration of structure, function, and maintenance of homeostasis. The topics include the following systems: nervous (CNS), endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary and reproductive. Both BIOL B32 and BIOL B33 must be taken to study all the major body systems. This series meets the diverse needs of students seeking careers in such allied health fields as nursing, pharmacy, and physician's assistant.

Hours: 54 lecture, 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

BIOL B34 Pathophysiology

3 units

Prerequisites: BIOL B32 and BIOL B33, or an older BIOL B14 - Anatomy and BIOL B15 - Physiology series, all with grades of 'C' or better.

Description: The study of the basic principles and processes of diseases within the human body using background information from

anatomy, physiology, and chemistry. Topics include basic disease mechanisms as well as the etiology and pathogenesis of disorders by body system. Diagnostic procedures, preventative measures, and examples of current therapeutic practices are also explored.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

Business Administration Courses

BSAD B1 Financial Accounting

4 units

Prerequisites: Mathematics - one level prior to transfer, or MATH BD/MATH B70 and ACDV B50 or Reading - one level prior to transfer with a grade of 'C' or better.

Description: An introduction to the theory and practice of accounting and financial reporting. Topics include the accounting cycle, financial statements and accounting for assets, liabilities, equities, revenues and expenses.

Hours: 72 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges

BSAD B2 Managerial Accounting

4 units

Prerequisites: BSAD B1 with grades of 'C' or better.

Description: With a strong emphasis on decision-making, the use of accounting information and tools for strategic planning. Measurement and reporting performance for management decisions. Product costing using activity based costing, process and job order systems. Cost-volume-profit, budget, variance and capital investment analysis.

Hours: 72 lecture

CCS: Occupational Education

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.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

BSAD B9 Fundamentals of Marketing

3 units

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

3 units

Recommended: Reading - one level prior to transfer.

Description: Rules of law as they relate to business transactions. Origins of American legal system. Accountant/ client relationship and the law of agency and professional essentials of enforceable agreements, operation and discharge. Creation of relationship, rights and liabilities of parties and termination of relationship uniform commercial code of sales. Law of negotiable instruments: essentials of negotiability, negotiation and discharge, Law of property, personal property, acquisition, constitutional law, legislative, executive, judicial and administrative law. International business.

Hours: 54 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges

BSAD B19 Business Law: Business Entities and Estates

1 unit

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

3 units

Recommended: Reading - two levels prior to transfer.

Description: Introduction to the nature, function and management of the business enterprise in our modern political, social and economic environment. Evaluation of the relationships of business to government, to labor and to the public. Students will complete the educational planning requirement for priority registration.

Hours: 54 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges

BSAD B39 Principles of Real Estate

3 units

Recommended: Reading - one level prior to transfer.

Description: Introduction to the many fields of real estate activity in California. Basic information about the ownership, use and enjoyment of land. Furnishes the proper foundation, including the language of real estate transactions for anyone interested in a real estate career. Satisfies partial educational requirement of the state sales and brokers licenses.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

BSAD B40 Personal Finance

3 units

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

3 units

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: CSU and private colleges

BSAD B51 Business Mathematics

3 units

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 transferrable.

BSAD B53A Introduction to Accounting 1

3 units

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 transferrable.

BSAD B53B Introduction to Accounting 2

3 units

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 transferrable.

BSAD B54 Payroll Accounting

3 units

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 Unemployment Insurance, Federal Income Tax and California Income Tax, and how these taxes affect the employee/employer.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B55 Computer Accounting Applications

3 units

Prerequisites: BSAD B1 a 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 transferrable.

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 transferrable.

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 transferrable.

BSAD B71 Escrow Procedures

3 units

Recommended: Reading - one level prior to transfer.

Description: Principles and methods of handling escrows involving title to land, sale of personal property and all other types of escrows ordinarily handled in the escrow office. Includes a study of the various forms and practices used in the drawing of the escrow instructions and the buyers and sellers closing statements. Also considers the duties of the escrow officers. Satisfies partial educational requirement of state sales and brokers licenses.

Hours: 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B72 Property Management

3 units

Recommended: Reading - one level prior to transfer.

Description: Introduces property management as a specialized activity that offers services to property owners. Contains current, specific information on the real estate market, inflation, and government activities. Detailed emphasis is given to the management of residential property, condominiums, office buildings, and shopping centers. Satisfies partial requirement of state sales and broker license.

Formerly: REAL B57

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B73 Common Interest Development

3 units

Recommended: Reading - one level prior to transfer.

Description: Intended as a guide for condominium and homeowners associations, board of directors and property owners regarding issues that arise in the context of community or homeowner association living. Satisfies partial educational requirements for sales and brokers licenses.

Formerly: REAL B58 or REAL 58.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B74 Legal Aspects of Real Estate

3 units

Recommended: Reading - one level prior to transfer.

Description: A study of California real estate law, including rights incident of property ownership and management, agency, contracts and application to real estate transfer, conveyancing, probate proceedings, trust deeds and foreclosures, as well as recent legislation governing real estate transactions. Satisfies partial educational requirement of State brokers examinations.

Formerly: REAL B60 or REAL 60

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B75 Real Estate Economics

3 units

Recommended: BSAD B39 or REAL B39.

Description: Advanced course dealing with the nature and classification of land; business fluctuations and their relationship with real estate cycles; residential and commercial market trends; rural property and special purpose trends; economic factors affecting the development of property, construction and subdivision. Satisfies partial education requirement for State Brokers Examination.

Formerly: REAL B61

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B76 Real Estate Finance

3 units

Recommended: BSAD B39 or REAL B39.

Description: Practical study and analysis of real estate financing, with actual cases illustrating lending policies, problems, risks involved in financing transactions in residential, apartment, commercial, and special purpose properties. Satisfies partial education requirement for State Brokers Examination.

Formerly: REAL B62

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B77 Basic Appraisal Principles

3 units

Recommended: BSAD B39 (formerly REAL B63).

Description: Principles and basic fundamentals of real estate appraisal pertaining primarily to single-family and small multiple

dwellings. Explains the appraisal process and the different approaches, methods, and techniques used to determine the value of various types of property. Satisfies partial educational requirement for State Brokers Examination.

Formerly: REAL B63.

Hours: 54 lecture

Repeat: 1

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B78 Real Estate Practice

3 units

Recommended: BSAD B39 or REAL B39.

Description: Basic elements of day-to-day real estate sales and brokerage practice, primarily for holders of real estate licenses as salesmen and brokers. Topics include listing, prospecting, advertising, financing, sales techniques, escrow and ethics. Satisfies partial educational requirement for State Brokers Examination.

Formerly: REAL B64

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B79 Real Estate Investment and Taxation

3 units

Recommended: BSAD B53a or ACCT B53a.

Description: Principles and practical applications of real estate investment and tax analysis. Basic fundamentals relevant to students interested in learning real estate investment techniques. Real estate forms and cases are used to aid in solving problems.

Formerly: REAL B65

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B80 Basic Appraisal Procedures

3 units

Prerequisites: BSAD B77 with a grade of 'C' or better.

Description: Principles of appraisal, the appraisal process, features of appraisal, property considerations, appraisal techniques and professional standards of appraisers. Actual appraisal of a local apartment complex illustrating all the factors involved in the appraisal process. Satisfies partial educational requirement of State Brokers Examination.

Formerly: REAL B68.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B81 Residential Sales Comparison and Income

Approaches

3 units

Prerequisites: BSAD B77, REAL B63, BSAD B80, or REAL B68 with grades of 'C' or better.

Description: This practical, hands-on course reviews residential appraisal techniques and using a case study, demonstrates the skills needed by modern residential appraisers. The course takes participants through a residential appraisal from the time the assignment is received to the point at which a value conclusion is reached and the appraiser is ready to complete the appraisal report. The case study is supplemented with problems focusing on individual valuation procedures.

Formerly: REAL B69

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B82 Real Estate Office Administration

3 units

Recommended: BSAD B39.

Description: Assists the Real Estate professional in the planning, managing, organizing, staffing and marketing of a Real Estate Office as well as covering Department of Real Estate requirements. Satisfies partial educational requirements for the sales and broker licenses.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

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 transferrable.

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 transferrable.

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 transferrable.

BSAD B250 Quick Computer Keyboarding for Survival

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. Open entry/ open exit course with individualized instruction in a supervised laboratory.

Formerly: BUS B252a.

Note: Not open to students who have taken BSAD B252a.

Hours: 30 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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

Transferable: Associate Degree only. Not transferrable.

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 transferrable.

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.

Hours: 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

BSAD B253A Document Processing, Part 1

1 unit

Prerequisites: BSAD B252c with at least a grade of C.

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 keyboarding 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 transferrable.

BSAD B253B Document Processing, Part 2

1 unit

Prerequisites: BSAD B253a with a grade of C.

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 keyboarding 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 transferrable.

BSAD B253C Document Processing, Part 3

1 unit

Prerequisites: BSAD B253b with a grade of C.

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 keyboarding 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 transferrable.

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 transferrable.

BSAD B280 Machine Transcription

1.5 units

Prerequisites: BSAD B252c with a grade of 'C' or equivalent and BSAD B85 or BSAD B285 or equivalent.

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.

Formerly: OFFT B280

Hours: 81 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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.

Hours: 162 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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.

Hours: 81 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

Chemistry Courses

CHEM B1A General Chemistry I

5 units

Prerequisites: Reading- one level prior to transfer. CHEM B2a with a grade of C or better or high school chemistry; MATH BD/MATH B70 with a grade of 'C' or better or 2 years of high school algebra.

Recommended: Prerequisites should be completed within 2 years of the course to enable success.

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.

Hours: 54 lecture, 108 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

CHEM B1bB 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.

Hours: 54 lecture, 108 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

CHEM B2a Introductory General Chemistry

4 units

Prerequisites: MATH BA/MATH B60 with a grade of 'C' or better and reading - one level prior to transfer.

Recommended: Math prerequisite accomplished within the two previous years.

Note: Not open to students with credit in CHEM B1A.

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.

Hours: 54 lecture, 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

CHEM B11 Introduction to General, Organic, and Biochemistry

5 units

Prerequisites: MATH BA/MATH B60 or equivalent with grade of 'C' or equivalent. 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, composition, reactions, nomenclature; biochemistry-classification, composition, reactions in living organisms.

Hours: 54 lecture, 108 laboratory

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

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 evaluation by instructor of students skills and knowledge.

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

Chicano Studies Courses

CHST B30E Art of Latin America

3 units

Recommended: Reading - one level prior to transfer.

Description: Historical survey of the arts in Latin America. Focuses on the Spanish speaking regions as well as Cuba and the Dominican Republic. Students examine artistic contributions by Latin American artists to colonial and modern art forms. Identical to ART B30e and ART B37.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Transferable: CSU and private colleges

CHDV B21 Child Growth and Development: Birth through Adolescence

3 units

Recommended: CHDV B20. 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

Transferable: UC, CSU and private colleges

CHDV B22 Observation and Assessment: Birth through Adolescence

3 units

Prerequisites: CHDV B21 (with a grade of 'C' or better, may be taken concurrently). 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: Occupational Education

Transferable: UC, CSU and private colleges

CHDV B32 Teaching in a Diverse Society

3 units

Recommended: Reading - one level prior to transfer.

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

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

Transferable: CSU and private colleges

CHDV B36 Developmentally Appropriate Curriculum

3 units

Recommended: Reading - one level prior to transfer.

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 using their knowledge of developmentally appropriate

practices.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

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 numbers 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 and CHDV B21 and 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: Course combines the previous CHDV B41 and CHDV B41l **Formerly:** CHDV B41a or CHDV B41b plus CHDV B41al or CHDV B41bl

Hours: 18 lecture, 108 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

CHDV B42 Child, Family, and Community

3 units

Recommended: Reading - one level prior to transfer.

Description: Includes 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

Transferable: UC, CSU and private colleges

CHDV B43 Techniques of Parent Education

2 units

Recommended: Reading - one level prior to transfer.

Description: The philosophy, materials, and techniques necessary for a viable parent education program for parents of young children, including conducting group discussions, parent meetings and conferences, developing parents self-esteem and participation. Developing

teacher communication skill will be emphasized.

Hours: 36 lecture

CCS: Occupational Education

Transferable: CSU and private colleges, elective credit only

CHDV B45A Administration of Programs for Young Children: Business Procedures

3 units

Recommended: CHDV B41a and CHDV B41b with grades of C. Field trips required.

Description: Administration of programs for young children including private and publicly-funded child care centers and preschool programs. Emphasizes business procedures and public policy.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges, elective credit only

CHDV B45B Administration of Programs for Young Children: Personnel Management Procedures

3 units

Recommended: CHDV B41a and CHDV B41b with grades of C.

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: Occupational Education

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

Transferable: CSU and private colleges, elective credit only

CHDV B50 Creative Use of Literature and Puppetry with Young Children

3 units

Recommended: Reading - one level prior to transfer.

Description: Exposes student to creative use of literature and puppetry to be used with preschool aged children.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: Associate Degree only. Not transferrable.

CHDV B52 Care of Infants and Toddlers with Disabilities

3 units

Recommended: Reading - one level prior to transfer.

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 transferrable.

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 transferrable.

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

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

CHDV B69 Science and Math for Young Children

3 units

Recommended: Reading - one level prior to transfer.

Description: Exposes student to concepts of math and science for young children.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

CHDV B70Z Continuing Professional Development

0.5-1 unit

Description: Attendance and participation in selected/approved community events concerning children and their families, early childhood education, professional development, and related topics.

Hours: 9 for each .5

Repeat: unlimited

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

Communication Courses

COMM B1 Public Speaking

3 units

Recommended: Writing - one level prior to transfer. Reading - one level prior to transfer.

Description: Instruction in the composition, presentation and evaluation of original speeches and critical assessment of other communication events. Emphasizes topic selection, research, organization, development, delivery, audience analysis and critical analysis of persuasive communication.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

COMM B2 Interpersonal Communication

3 units

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Introduction to all aspects of the communication process including intrapersonal, interpersonal, and group communication, as well as speaking in public. Emphasizes an understanding of communication in everyday life in conjunction with a knowledge of how to present ideas, thoughts and feelings. Introduction to various theories of interpersonal communication; participation in experiences designed to enhance competence and develop skills in interpersonal relationships.

C-ID: COMM 130

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

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.

C-ID: COMM 120

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

COMM B6 Intercultural Communication

3 units

Recommended: Reading - 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.

C-ID: COMM 160

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Transferable: CSU and private colleges

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.

C-ID: COMM 140

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Transferable: 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 followship 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 with credit in COMM B49b or COMM

B49, Leadership and Communication.

Hours: 54 lecture

CCS: Liberal Arts/Science

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

Transferable: UC, CSU and private colleges

COMM B49A Communication Ambassadors

3 units

Prerequisites: COMM B1, or B2, or B4, or B5, or B6, or B7, or B8 all with grades of 'C' or higher, or evaluation by instructor of students public speaking, interpersonal, and group skills.

Description: Course allows students to apply a variety of skills learned in other Communication classes. Students will participate in a variety of practical projects including: public speaking, leadership, project management, event planning, administration of programs, database management and research projects. Students will speak to members of the community and high schools. The goal of the class is to strengthen communication skills and to broaden students understanding of the discipline.

Hours: 54 lecture

Repeat: 3

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

COMM B49C Political Communication: The Presidential Election

3 units

Recommended: Reading - one level prior to transfer.

Description: Course designed to help students understand and appreciate the unique communication strategies and events that are only present in the Presidential Election Process. Course examines theories and practices of political communication during presidential elections. Students will focus on methods that candidates, parties, and stakeholders use to communicate political messages. Students will examine the use of both traditional media and emerging technologies in contemporaneous political campaigns. Students will also analyze and criticize candidate speeches and debate performances.

Note: Offered every 4 years in the fall semester to coincide with the Presidential General Election.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

Computer Studies Courses

COMS B2 Introduction to Computer Information Systems

3 units

Recommended: Mathematics - one level prior to transfer

Prerequisites: 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. Not open to students who have taken the equivalent course COMS B3.

Hours: 54 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges

COMS B3 Computer Concepts and Survival Skills

3 units

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 survival skills and computer literacy that most computer users need today. The lecture portion of the course includes a brief history of computing, computer ethical and societal implications of computer use. The lab portion of the course will provide hands-on experience with software and techniques that will help students to be productive personally and professionally. Examples include: word processing, spreadsheets, backup, anti-virus, anti-spyware, communications, multimedia, Email, web based research, and operating systems. Not open to students who have taken COMS B2.

Hours: 54 lecture

Repeat: none

CCS: Occupational Education

Transferable: CSU and private colleges

COMS B5 Introduction to Microsoft Office 2010

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.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

COMS B10 Structured Program Design Using Python

2 units

Recommended: Reading - one level prior to transfer.

Description: Fundamentals of writing computer programs. Emphasis is on the development of logic to solve problems. Covers various tools and techniques used to write structured programs using any programming language.

Hours: 36 lecture

Repeat: none

CCS: Occupational Education

Transferable: CSU and private colleges

COMS B14 Introduction to Programming with Java

3 units

Prerequisites: Mathematics - one level prior to transfer. Reading - one level prior to transfer.

Description: Fundamentals of structured programming and operat-

ing systems in Java. Develops structured programming and problem solving skills and provides experience in using the computer in a variety of applications.

Hours: 54 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges

COMS B25 Programming with C

3 units

Prerequisites: COMS B14 or COMS B16.

Recommended: Successful completion of a high-level programming language course or an assembly language course. Reading - one level prior to transfer.

Description: Fundamentals of structured programming and operating computer systems in C. Develops structured programming and problem-solving skills and provides experience in using the computer in a variety of applications.

Hours: 54 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges

COMS B27 Introduction to Assembly Language

3 units

Prerequisites: At least one course in a high level computer programming language.

Recommended: Reading - one level prior to transfer.

Description: Fundamentals of assembly language programming. Topics include binary, octal and hexadecimal arithmetic, data storage, bit manipulation, processor architecture and instruction set, system hardware, operating-system supervisory functions, program modularization through effective use of macros and procedures, use of assembler, linker, object-library manager, and debugger utilities, and I/O to/from the screen, keyboard and auxiliary storage. Emphasizes the development of libraries (macro and object) of commonly-used input/output routines. The primary machine for the course will vary; the major topics of the course are common to assembly-language programming on any processor, and in any environment.

Note: Effective Spring 2006, lab hours no longer required.

Hours: 54 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges

COMS B32 Programming with Visual Basic

3 units

Recommended: A high-level computer language.

Description: Designed as an intermediate-level programming class. Students are introduced to an object-oriented, data-driven language. Explores the Visual Basic programming language to create real-world applications. Coverage of topics include: OOP concepts; Visual Basic.NET IDE; Graphical user interfaces (GUI); Structured programming constructs; File processing; Debugging; Designing, building, and accessing ADO databases; Classes and objects.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

COMS B34 SQL and Database Systems Design

3 units

Recommended: At least one programming language or application that uses formatted data files.

Prerequisite: Reading - three levels 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 may 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: For elective credit only.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

COMS B35 OOP and Data Structures with C++

3 units

Prerequisites: COMS B25 with a grade of 'C' or better or evaluation by instructor of students knowledge of the C programming language.

Description: Object-oriented programming and data structures using C++. Topics include a quick review of the kernel language (ANSI-standard C), abstract data types, encapsulation, function and operator overloading (polymorphism), container classes, and inheritance. Topics also include stacks, queues, and ordered lists implemented as static arrays, dynamic arrays, linked lists, and binary trees.

Formerly: COMS B11

Hours: 54 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges

COMS B37 Introduction Geographic Information Systems (GIS)

3 units

Recommended: COMS B2, or COMS B5, or evaluation by the instructor of students knowledge of computer information systems and software applications.

Description: An introduction to methods of managing and processing spatial data. Covers the basic assumptions, concepts, theories, and structures of geographic information systems. Hands-on experience in data input, management, analysis, and display.

Hours: 54 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges

COMS B41 Introduction to 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.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

COMS B51 Assistive Technologies and the Internet

2 units

Recommended: Reading - two levels prior to transfer.

Description: Students will actively engage in assessment, identification, and development of effective computing techniques using standard and assistive technology. Identify and develop individual learning preferences and strategies (visual/verbal, etc.), evaluate computer input and output options for increased usability, and improve access through specialized Text-to-Speech software applications. Students will also learn to use basic tools and features in Internet Explorer to conduct searches, identify credible information, locate academic and general information, and use a variety of online resources to complete a research project.

Hours: 36 lecture

Repeat: 3

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

COMS B54 Introduction to OpenOffice

1.5 units

Recommended: COMS B52A or COMS B5.

Description: Introduction to a free Open Source OpenOffice software application suite. Covers basic word processing, spreadsheets, presentation, and database applications in OpenOffice.

Hours: 27 lecture

Repeat: none

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

COMS B74A Web Design: Adobe Dreamweaver

3 units

Recommended: Reading - one level prior to transfer.

Description: An introduction to the design, planning, and creation of Web sites using Adobe Dreamweaver.

Hours: 54 lecture

Repeat: none

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

COMS B74B Web Design: HTML and XML

3 units

Description: An introduction to using hypertext mark-up language(s) to create Web sites. Students will learn how to create, debug and modify websites using mark-up language(s).

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

COMS B74C Web Programming: JavaScript/CSS

3 units

Recommended: COMS B74b.

Description: Uses dynamic hypertext mark-up language to create Web sites. Emphasizes scripting for flexibility, interactivity and dynamic content. Student will learn basic programming concepts and techniques, using HTML and popular scripting languages. Includes a brief introduction to the Java programming language.

Note: Not open to students who have taken COMS B74D.

Hours: 54 lecture

Repeat: 3

CCS: Occupational Education

COMS B74E Intermediate Web Development: Web Authoring Tools

3 units

Recommended: COMS B74a or evaluation by instructor of students web authoring skills.

Description: Designing and implementing intermediate web-authoring components and concepts using Macromedia Dreamweaver. Covers techniques for implementing tables, frames, forms, components and data-driven applications in an intermediate-level-setting. Also covers integration of design with technology components.

Formerly: COMS B74d, 74e, and 74F.

Hours: 54 lecture

Repeat: 3

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

COMS B75C Web Programming: PHP

3 units

Description: An introduction to the use of PHP platform to develop dynamic web applications. Covers the origins, syntax and structure of PHP, as well as the PHP-specific commands and objects and their use in PHP development.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

COMS B77B Spatial Analysis and Data Modeling in GIS

1.5 units

Recommended: COMS B37, or COMS B77 with grades of 'C' or better, or evaluation by the instructor of the students knowledge of computer information systems and software applications.

Description: Introduces the theories and technology behind spatial analysis and spatial modeling in geographic information systems (GIS). Takes the student beyond vector data into raster (grid) datasets. Students learn to conduct meaningful analysis with GIS, which can be applied to conservation, municipal planning, business, and the social sciences. Covers the use of the ArcGIS Spatial Analyst, as well as ArcGIS Model Builder.

Hours: 27 lecture

Repeat: 2

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

COMS B82 CompTIA Network+

3 units

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.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

COMS B87 Introduction to Remote Sensing

1.5 units

Recommended: COMS B37 or COMS B77 grades of 'C' or better, or evaluation by the instructor of students knowledge of computer information systems and software applications.

Description: Introduction to fundamentals of remote sensing science and digital image processing. Focus on remote sensing principles. Hands-on experience of the processing and interpretation of remotely sensed data using image processing techniques and software. Course intended to provide information necessary to successfully use remotely sensed imagery in conjunction with other geospatial technologies to answer questions about the world in which we live. Class will cover the use of ERDAS IMAGINE@ suite of software tools.

Hours: 27 lecture

Repeat: 2none

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

COMS B93 Microsoft Active Directory Services (MCSE 70-219 Exam Prep)

3 units

Recommended: Reading - one level prior to transfer.

Description: An introduction to Microsoft Active directory Services (MCSE 70-219 Exam Prep). Covers how to plan, configure, and administer active directory services. Hands on experience includes

configuring Domain name System (DNS), managing user accounts and permissions, networking resources, and how to implement and troubleshoot security in an active directory environment.

Hours: 54 lecture

Repeat: none

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

COMS B100 Computer Hardware Diagnostics

4 units

Recommended: COMS B2.

Description: Designed to cover the information and materials needed to enable students to successfully pass the A Plus examination. Deals with the hardware and software, installation and troubleshooting. The various diagnostic tools and methods used in the industry will be explored.

Hours: 54 lecture, 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

COMS B101 Web Systems and Security

3 units

Prerequisites: COMS B74b with a grade of 'C' or better, or evaluation by instructor of students web design experience.

Description: This course builds upon the foundational knowledge from the more introductory web development courses to explore some of the more advanced and complex concepts that one should master in order to become a successful web designer.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

Construction Technology Courses

CNST B1 Introduction to Construction

3 units

Recommended: Reading - one level prior to transfer.

Description: Basic concepts of the construction industry. Overview of careers in construction, related safety and math, print reading, and construction techniques investigated.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

CNST B2 Estimating and Scheduling

3 units

Recommended: CNST B1 with a grade of 'C' or better, or one year work experience in the construction related industry. Reading - one level prior to transfer.

Description: Techniques in managing and organizing a construction project including plan reading, estimating and scheduling are covered. The extraction of the information necessary to calculate quantities and costs is investigated. Use of computer programs to manage a construction project and to calculate the cost and keep track of the scheduling is explored and practiced. Practice and theory are pursued.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

CNST B50A Residential Construction

7 units

Recommended: Reading - one level prior to transfer.

Description: Intended to provide students with an overview of the

construction profession. Various aspects of residential construction from site preparation through framing phases will be studied and performed. Special interest will be on construction safety, the initial phases of construction & investigation of emerging building trends & techniques. Finish carpentry & plumbing phases and techniques will also be introduced.

Hours: 54 lecture, 216 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

CNST B50B Residential Construction

7 units

Recommended: Reading - one level prior to transfer.

Description: Intended to provide students with an overview of the construction profession. Various aspects of residential construction from post rough framing to final completion will be studied and performed. Special interest will be on construction safety, the finish carpentry & electrical phases of construction & investigation of emerging building trends & techniques. Initial phases and techniques will be reviewed.

Hours: 54 lecture, 216 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

Correctional Administration Courses

CADM B54 Corrections Officer Core Course

7 units

Description: Provides the student with necessary knowledge and skills required to effectively supervise inmates in a correctional setting. Designed to comply with the Corrections Standards Authority in the Standards and Training for Corrections Basic Core Course. Covers professionalism, ethics, laws, custody, and supervision of inmates, demonstrated skills in handling of contraband, restraint techniques, cell extractions, weaponless defense, physical conditioning, first aid, and CPR.

Hours: 90 lecture, 118 laboratory

Repeat: 2

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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, confidentiality, 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.

Repeat: 2

Hours: 140 lecture, 36 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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.

Hours: 8 for each .2.

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

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.

Repeat: Unlimited

Hours: 56 lecture, 24 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

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: 8 lecture

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

CADM B70C Escape Prevention

0.2 unit

Description: Intended for people working in corrections. Covers escape prevention procedures that deal primarily with basic insti-

tutional security principles, accountability of inmates, human error, and techniques used for escape prevention. Meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Programs

Hours: 8 lecture

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

CADM B70E Handling Aggressive and Assaultive Inmates

0.2 unit

Description: Provides training to corrections staff. Examines the violent criminal, explains the reasons for inmate violence, and offers tools to de-escalate confrontations. Provides demonstrations and an opportunity to practice evasive defense tactics. 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: Occupational Education

Transferable: Not degree applicable. Not transferrable.

CADM B70F Sexual Harassment Prevention

0.2 unit

Description: Designed for students who work in law enforcement/corrections. Identifies Sexual harassment from a legal, moral, and social concept. Provides advice and counsel on how to prevent sexual harassment in the workplace. 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 transferrable.

CADM B70G Understanding Prejudice

0.2 unit

Description: Intended for people working in law enforcement and corrections. Teaches tolerance of others who are unlike oneself, to make allowances for cultural differences, values and beliefs. Adjusts preconceptions and misconceptions, attitudes and encourages communication styles without implications of discrimination. 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 transferrable.

CADM B70H Crime Scene Preservation and Investigation

0.2 unit

Description: Intended for correctional officers, juvenile institutions staff and probation officers. Provides the required competencies to identify a crime scene, preserve evidence, mark and collect physical, trace and transient evidence. 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 transferrable.

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 transferrable.

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 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 transferrable.

CADM B70K Anatomy of a Set-Up: How Inmates Manipulate Correctional Staff

0.2 unit

Description: Provides training to corrections staff on theories of crime, criminal thinking and behavior, how inmates will select, test and attempt to manipulate staff. Identifies the signs that contribute to and make employees receptive to a set up and con games. 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 transferrable.

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 transferrable.

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 Corrections Program.

Hours: 7 lecture, 1 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

CADM B70R 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 transferrable.

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: 8 lecture

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

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 transferrable.

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 unclothed 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 transferrable.

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: 4 lecture, 4 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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.

Note: Registration will be held during the first hour of the first class meeting.

Hours: 6 lecture, 2 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

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 transferrable.

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 transferrable.

CADM B71G Advanced Report Writing

0.2 unit

Description: Provides written communication training to corrections line staff and first line supervisors. Course will provide examples and an opportunity to practice report writing. 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: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

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 transferrable.

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 transferrable.

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 transferrable.

CADM B71M Stress in the Corrections Environment

0.2 unit

Description: Intended for people working in corrections. Identifies stress, 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: 7 lecture, 1 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

CADM B71N Positive Thinking in Corrections

0.2 unit

Description: Intended for people working in corrections. Identifies and discusses the premise that a positive attitude in the correctional workplace fosters job satisfaction, builds self-esteem, and reinforces desired performance. 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 transferrable.

CADM B71O Assertiveness Training for 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: 6 lecture, 2 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

CADM B71P Employee Post Trauma

0.2 unit

Description: Intended for people working in corrections. 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 transferrable.

CADM B71Q Liability Issues and Courtroom Demeanor

0.2 unit

Description: Intended for people working in corrections. An introduction to the legal liabilities and responsibilities of corrections personnel while at work and expectancies when called to testify 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 transferrable.

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: 8 lecture

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 Au-

thority 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: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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: Occupational Education

Transferable: Not degree applicable. Not transferrable.

CADM B76 Basic Firearms Familiarization

0.2 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.

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: 4 lecture, 4 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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.

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: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 and 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 transferrable.

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 counties participating in the Standards and Training for Corrections Program.

Hours: 24 lecture, 56 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

Criminal Justice Courses

CRIM B1 Introduction 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

CCS: Occupational Education

Transferable: UC, CSU and private colleges

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

CCS: Occupational Education

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

CCS: Occupational Education

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

CCS: Occupational Education

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: The relationship of criminal justice agents and the community; causal and symptomatic aspects of community perceptions; lack of cooperation and trust; study of behavioral causes; strategies to develop and enhance multi-cultural awareness and harmonious relationships.

Hours: 54 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges

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

CCS: Occupational Education

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

CCS: Occupational Education

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

CCS: 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: Occupational Education

Transferable: CSU and private colleges

CRIM B22 Institutional Supervision and Treatment of the Offender

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.

Description: Theory and techniques of probation and parole supervision, including historical development with emphasis on recent

programs, research, and development in the field.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

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 transferrable.

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 transferrable.

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 transferrable.

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

CRPS B2 Forage Crops

3 units

Recommended: Reading - one level prior to transfer.

Description: Study of important forage crops of California and the

nation; species, varieties, adaptations, production methods, feeding qualities, and processing. 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 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, pest-lence 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 B10 Plant Biology

4 units

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer. Not open to students who have taken BIOL B10.

Description: An introductory course covering the fundamental principles of plant science with emphases 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.

Hours: 54 lecture, 54 laboratory

CCS: Occupational Education

Transferable: UC, CSU and private colleges

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 dance techniques and fundamentals and terminology of ballet as they relate to jazz dance 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.

Hours: 36 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

DANC B6MD Modern Dance (PHED B6MD)

1 unit

Description: Modern dance as a lifelong physiological, psychological and social activity. A coeducational course in which the student will learn warm-ups, techniques, experiences with movement improvisation and develop knowledge of the elements of dance composition.

Hours: 36 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

ERSC B10L Earth Science Laboratory

1 unit

Prerequisites: ERSC B10 (with minimum grade of 'C', 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

Transferable: UC, CSU and private colleges

Economics Courses

ECON B1 Principles of Economics-Micro

3 units

Recommended: Eligibility for ENGL B50. Reading - one level prior to transfer. MATH BA/MATH B60 (with a grade of 'C' or better), or one year of high school algebra.

Description: Principles of economic analysis and decision making from the viewpoint of the individual consumer, worker, and firm. Emphasis on the price system allocation of resources and income, supply and demand analysis, the structure of American industry, and applications to current economic policy and problems.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ECON B2 Principles of Economics-Macro

3 units

Recommended: Eligibility for ENGL B50. Reading - one level prior to transfer. MATH BA/MATH B60 (with a grade of 'C' or better), or one year of high school algebra.

Description: Principles of economic analysis and decision making from the viewpoint of the individual consumer, worker, and firm. Emphasis on the price system allocation of resources and income, supply and demand analysis, the structure of American industry, and applications to current economic policy and problems.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

Education Courses

EDUC B24 Early Field Experience for Elementary Teachers

3 units

Recommended: Reading - one level prior to transfer.

Description: Introduction to the elementary classroom. Provides an opportunity of observation and participation in an elementary classroom setting to explore teaching as a profession. Satisfies the 0.5 unit educational planning requirement for graduation from Bakersfield College.

Note: In addition to the scheduled hours, students will be required to arrange 54/total lab hours in a school district classroom setting.

Hours: 36 lecture, 54 laboratory

CCS: Liberal Arts/Science

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: 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 completed MFGT B4, MFGT B5 or MFGT B50.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

ELET B5 Programmable Logic Controllers

3 units

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 starters, basic motor control circuitry and applications, and an introduction into variable frequency motor drives (VFDs).

Hours: 54 lecture, 54 laboratory

Repeat: 1

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

ELET B56 Instrumentation and Process Control

3 units

Prerequisites: ELET B1 with a grade of 'C' or better.

Recommended: Reading - one level prior to transfer.

Description: Basic principles of process instrumentation and control. Topics include: level, pressure, flow, and level measurement, final control elements, piping and instrument diagrams and tags, PID controller programming, and basic control algorithms.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

ELET B58 Advanced Programmable Logic Controllers

3 units

Prerequisites: ELET B5 with a grade of 'C' or better.

Description: The function and application of programmable logic controllers. Students will become familiar with the programming of Allen Bradley Control Logix series controllers with RSLogix 5000 software, providing all of the basics of using the Rockwell Automations Control Logix platform of PLCs. It will allow students to be involved with either maintenance, or engineering of control systems and machinery with the latest technology from Rockwell Automation. Students will have both theory and lab time, learning how to put a system together, understanding the memory and data structure of the PLC, and writing simple programs. Documenting the written program utilizing the features of the programming software as well

as troubleshooting techniques will also be emphasized throughout the course.

Transferable: Associate Degree only. Not transferrable.

Hours: 36 lecture, 54 laboratory

Repeat: 1

CCS: Occupational Education

ELET B61 Telecommunications

3 units

Prerequisites: ELET B1 with a grade of 'C' or better.

Recommended: Reading - one level prior to transfer.

Description: Elements of residential and commercial phone systems, electronic communications "basics," transmission line characteristics, fiber-optic cabling and systems, and other non-radio-based communication topics will be covered in this course.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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 transferrable.

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 transferrable.

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, bearings, 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 transferrable.

Emergency Medical Technician Courses

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.

Hours: 126 lecture, 27 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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.

Hours: 24 lecture

Repeat: unlimited

CCS: Occupational Education

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, Kirchhoffs 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: CSU and private colleges

ENGR B19C Computer Programming for Science, Engineering, and Technology

3 units

Prerequisites: MATH B6a with a grade of 'C' or higher, may be taken concurrently.

Recommended: Reading - one level prior to transfer.

Description: Methods used in the solution of science and engineering for problems on digital computers. Programming of algorithms for solutions of numerical problems using a higher level language. Utilizes the C programming language.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGR B19F Computer Programming: Fortran

3 units

Prerequisites: MATH B6a (may be taken concurrently).

Recommended: Reading - one level prior to transfer.

Description: Methods used in the solution of science and engineering problems on digital computers. Programming of algorithms for solutions of numerical problems using a higher level language. ENGR B19f uses the Fortran language.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGR B24 Engineering Graphics and Descriptive Geometry

2 units

Prerequisites: INDR B10, INDR B11, and MATH B1b with a grade of 'C' or higher.

Description: Orthographic projection, auxiliary views, sectioning, threads and fasteners, dimensioning, tolerance, and working drawing. Descriptive geometry used to obtain points, lines, planes, intersections, developments and spatial relationships. Instrument and computer aided drafting systems used as aid to visualization and design.

Hours: 18 lecture, 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGR B36 Engineering Mechanics-Statics

3 units

Prerequisites: PHYS B4a and MATH B6a with grades of 'C' or better.

Description: Principles of statics and their application to engineering problems, equilibrium of two-dimensional and three-dimensional systems of particles and rigid bodies. Concentrated and distributed force systems, structures, friction, virtual work and moments of inertia.

Hours: 54 lecture

Transferable: UC, CSU and private colleges

ENGR B37 Engineering Mechanics-Dynamics

3 units

Prerequisites: ENGR B36 and MATH B6c with grades of 'C' or higher.

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: Liberal Arts/Science

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

Repeat: 2

CCS: Occupational Education

Transferable: CSU and private colleges

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 transferrable.

English Courses

ENGL B1 Introductory Composition

4 units

Prerequisites: ENGL B60 with a grade of 'C' or better or CR or English Level 5.

Description: Emphasizes the writing of expository and argumentative essays and the comprehension and analysis of readings. Satisfies the General Education requirement in written English for the AA and AS degrees and prepares transfer students for English B1a.

Hours: 72 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ENGL B1A Expository Composition

4 units

Prerequisites: ENGL B50 with a grade of 'C' or Reading Level 6 - Transfer and English Level 6 - Transfer.

Description: Expository writing and reading. Emphasizes the organization and development of expository essays, study of style, application of critical thinking and writing skills, and preparation of a research paper.

Hours: 72 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B1B Introduction to Types of Literature

3 units

Prerequisites: Eligibility for ENGL B1a.

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

Transferable: UC, CSU and private colleges

ENGL B2 Advanced Composition and Critical Thinking

5 units

Prerequisites: ENGL B1a with a minimum grade of C.

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: 90 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B3 Argumentative Writing and Critical Thinking

Through Literature

4 units

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: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B5A Survey of English Literature

3 units

Prerequisites: Satisfactory completion of ENGL B50 or ENSL B1 or ENSL B50 with a minimum grade of 'C' or English Level 6.

Recommended: ENGL B1b with a grade of C.

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: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B5B Survey of English Literature

3 units

Prerequisites: Satisfactory completion of ENGL B50 or ENSL B50 with a minimum grade of 'C' or English Level 6.

Recommended: ENGL B1b.

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 major or minor is English and for students who desire to extend their knowledge of the literary tradition.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B10 Introduction to Shakespeare

3 units

Prerequisites: Satisfactory completion of ENGL B50 with minimum grades of 'C' or English Level 6.

Description: Course involves the study of the drama and sonnets of William Shakespeare. Historical information regarding Shakespeare and Elizabethan England will be covered in order to increase students appreciation of his accomplishments. Discussions and video presentations will highlight the relevance of Shakespeare's work today.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B20A Survey of World Literature

3 units

Prerequisites: Satisfactory completion of ENGL B50 with a minimum grade of 'C' or English Level 6.

Recommended: ENGL B1b with a grade of C.

Description: 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. Recommended for English and Comparative Literature majors and as an

elective for majors in the humanities, history or education.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B21 African-American Literature

3 units

Prerequisites: Satisfactory completion of ENGL B50 with a minimum grade of 'C' or English Level 6.

Description: Major authors, their works, themes and movements in African-American literature in America from colonial times to the present.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B24 Latino/a Literature

3 units

Description: This course will study works written by Latinos(as) in the United States and Latin American in order to discover the ways in which these works have interacted with specific cultures and contexts, from colonialism to the present.

Hours:

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B27 The Bible as Literature

3 units

Prerequisites: ENGL B50 with a minimum grade of 'C' or reading one level prior to transfer and English Level 6.

Description: Interpretation and analysis of Old and New Testament genres: Narrative, poetry, drama, epistles, didactics, wisdom, and prophecy.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B28 Classical Mythology

3 units

Prerequisites: Eligibility for ENGL B1a.

Description: A study of classical myth saga, and local legend, primarily Greek and Roman. Relates classical myths to historical and modern culture.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B30A Survey of American Literature

3 units

Prerequisites: Satisfactory completion of ENGL B50 with a minimum grade of 'C' or English Level 6.

Recommended: ENGL B1b with a grade of 'C' or higher.

Description: 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. Recommended as an elective for majors in the humanities, history or education.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B30B Survey of American Literature

3 units

Prerequisites: Satisfactory completion of ENGL B50 with a minimum grade of 'C' or English Level 6.

Recommended: ENGL B1b with a grade of 'C' or higher.

Description: A study of the most notable American authors from the American Civil War to the present with emphasis on the intrinsic value of the literature. Recommended as an elective for majors in the humanities, history or education.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B34 Introduction to Library Research

1 unit

Prerequisites: Reading - one level prior to transfer. Writing - 1 Level prior to transfer.

Description: Lecture and hands-on research class which will develop a basic familiarity with libraries and information resources as a foundation for research needs. Students will learn about different types of information resources and different search methods in the library and online. Evaluation and ethical use of resources, both print and electronic, is emphasized.

Hours: 18 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

ENGL B41a Introduction to Creative Writing

3 units

Prerequisites: Satisfactory completion of ENGL B50 or ENSL B1 or ENSL B50 with a minimum grade of 'C' or English Level 6.

Description: Creative writing of poetry, short plays and prose forms. Emphasizes creativity and control of language, sound, imagery, and sense in poetry; character, plot, theme, and point of view in fiction and drama. Cover basics of submitting manuscripts to publishers.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ENGL B41B Introduction to Creative Writing

3 units

Prerequisites: Satisfactory completion of ENGL B50 or ENSL B1 or ENSL B50 with a minimum grade of 'C' or English Level 6.

Description: Creative writing of poetry, short plays and prose forms. Emphasizes creativity and control of language sound, imagery, and sense in poetry; character, plot, theme, and point of view in fiction and drama. Covers basics of submitting manuscripts to publishers.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ENGL B41C Introduction to Creative Writing

3 units

Prerequisites: Satisfactory completion of ENGL B50 or ENSL B1 or ENSL B50 with a minimum grade of 'C' or English Level 6.

Description: Creative writing of poetry, short plays and prose forms. Emphasizes creativity and control of language, sound, imagery, and sense in poetry; character, plot, theme and point of view in fiction and drama. Covers basics of submitting manuscripts to publishers.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ENGL B41D Introduction to Creative Writing

3 units

Prerequisites: Satisfactory completion of ENGL B50 or ENSL B1 or

ENSL B50 with a minimum grade of 'C' or English Level 6.

Description: Creative writing of poetry, short plays and prose forms. Emphasizes creativity and control of language, sound, imagery, and sense in poetry character, plot, theme, and point of view in fiction and drama. Covers basics of submitting manuscripts to publishers.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ENGL B50 Introduction to College Composition

4 units

Prerequisites: ENGL B60 or ENSL B60 with a grade of 'C' or better or CR or English Level 5.

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: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

ENGL B53 Reading, Reasoning, and Writing

4 units

Prerequisites: ACDV B68/ACDV B65 or ENSL 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.

Hours: 72 lecture

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

ENGL B60 Basic Writing Skills

4 units

Prerequisites: ACDV B68/ACDV B65 or ENSL B70 with a minimum grade of 'C' or CR or English Level 4

Description: Review and application of fundamentals of standard English. Emphasizes sentence, paragraph, and short essay writing.

Hours: 72 lecture

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

English as a Second Language Courses

ENSL B21 Intermediate Pronunciation and Listening

3 units

Recommended: Placement based on Bakersfield College English as a Second Language Placement Test or ENSL B71ab and ENSL B71cd.

Description: Advanced pronunciation class for foreign students who are basically fluent in English, with emphasis on dialect or accents. This may include bicultural American students and foreign-born students.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ENSL B22 Advanced Academic Communication

3 units

Recommended: ENSL B21 with a grade of 'C' or better.

Description: Individual prescriptive training in listening pronunciation, pertaining to stress and intonation in spontaneous and formal speech samples.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ENSL B31 Advanced Reading and Literature

3 units

Prerequisites: ENSL B51 with a minimum grade of 'C', or placement based on the Bakersfield College English as a Second Language Placement Test.

Description: Reading course for advanced foreign/bilingual students which refines critical reading skills and vocabulary of college-level material in fiction and non-fiction.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

ENSL B50 Introduction to College Composition

4 units

Prerequisites: ENSL B60 or ENGL B60 with a minimum grade of 'C' or CR, or placement based on the Bakersfield College English as a Second Language Placement Test.

Description: Composition course for foreign/bilingual students which provides extensive practice in rhetorical modes of composition and persuasion as well as comprehension and analysis of reading. Stresses both organization and in-depth essay development. Prepares students for ENGL B1a.

Hours: 72 lecture

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

ENSL B51 High-Intermediate Reading and Vocabulary

4 units

Prerequisites: ENSL B61 with a minimum grade of 'C', or placement based on the Bakersfield College English as a Second Language Placement Test.

Description: Recommended for international and multi-lingual students who need to improve reading comprehension and build vocabulary in English. Emphasis is on identifying main ideas, summarizing, making inferences, and developing vocabulary, using more complex academic reading selections than in ENSL B61.

Hours: 72 lecture

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

ENSL B60 Basic Writing Skills

4 units

Prerequisites: ENSL B70 (formerly ENSL B3) or ACDV B68/ACDV B65 with a minimum grade of 'C', or placement based on the Bakersfield College English as a Second Language Placement Test.

Description: Writing course for international/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 ENSL B50 or ENGL B1a.

Note: Not open to students with credit in ENSL B2.

Hours: 72 lecture

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

ENSL B61 Basic Reading and Vocabulary

4 units

Prerequisites: Placement based on the Bakersfield College English as a Second Language Placement Test.

Description: Recommended for international and multilingual students who need to improve reading comprehension and build

their vocabulary in English. Emphasis is on looking for main ideas, summarizing, making inferences, developing vocabulary, and using academic language.

Note: Identical to the non-credit course ENSL B61N.

Hours: 72 lecture

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

ENSL B61N Basic Reading and Vocabulary

0 unit

Prerequisites: Placement based on the Bakersfield College English as a Second Language Placement Test.

Description: Non-credit course identical to ENSL B61. Recommended for foreign and bicultural students who need to improve reading comprehension and build their vocabulary in English. Emphasis is on looking for main ideas, summarizing, making inferences, building vocabulary, and using correct patterns of grammar.

Note: Identical to credit course ENSL B61.

Hours: 72 lecture

Repeat: unlimited

Transferable: Associate Degree only. Not transferrable.

ENSL B70 Grammar and Composition

4 units

Prerequisites: ENSL B80 (formerly ENSL B55ab) with a minimum grade of 'C' or placement based on the Bakersfield College English as a Second Language Placement Test.

Description: Writing course for foreign/bilingual 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 ENSL B60.

Note: Not open to students who have taken ENSL B3.

Hours: 72 lecture

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

ENSL B71A Basic Listening and Speaking I

2 units

Recommended: Placement based on the Bakersfield College English as a Second Language Placement Test.

Description: Guided practice for improvement of pronunciation, intonation patterns and aural comprehension of non-native English speakers.

Hours: 36 lecture

Repeat: 1

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

ENSL B71AN Basic Listening and Speaking I

0 unit

Recommended: Placement based on the Bakersfield College English as a Foreign Language Placement Test.

Description: Non-credit course identical to ENSL B71ab. Guided practice for improvement of pronunciation, rhythm, stress, and intonation patterns and aural comprehension of non-native English speakers. Identical to ENSL B71a, B71b, or ENSL B71ab.

Hours: 72 lecture

Repeat: unlimited

Transferable: Associate Degree only. Not transferrable.

ENSL B71CD Basic Listening and Speaking II

4 units

Prerequisites: ENSL B71ab (with minimum grade of C) or place-

ment based on the Bakersfield College English as a Second Language Placement Test.

Description: Improves the pronunciation, intonation, rhythm, and stress patterns of the non-native English speaking person. Aural comprehension in everyday conversational speech and classroom lectures will also be stressed.

Note: Identical to the non-credit course ENSL B17CN.

Hours: 72 lecture

Repeat: 1

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

ENSL B71CN Basic Listening and Speaking II

0 unit

Prerequisites: ENSL B71ab (with a grade of 'C' or better) or ENSL B71an, or placement based on the Bakersfield College English as a Second Language Placement Test.

Description: Non-credit course identical to ENSL B71cd. Improves the pronunciation and intonation, rhythm, and stress patterns of the non-native English speaking person. Aural comprehension in everyday conversational speech and classroom lectures will also be stressed.

Note: Identical to ENSL B71c, B71d, or ENSL B71cd

Hours: 72 lecture

Repeat: unlimited

Transferable: Associate Degree only. Not transferrable.

ENSL B80 Preparation for Academic Writing

4 units

Recommended: Placement based on the Bakersfield College English as a Second Language Placement Test.

Description: Development of control of grammar and usage for international and multilingual American students to advance to ENSL B70. Focuses on grammar review, extensive sentence and paragraph writing, and vocabulary development.

Note: Not open to students who have taken ENSL B55ab. Identical to the non-credit course ENSL B80N.

Hours: 72 lecture

Repeat: 1

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

ENSL B80N Preparation for Academic Writing

0 unit

Recommended: Placement based on the Bakersfield College English as a Second Language Placement Test.

Description: Development and control of grammar and usage for international and multilingual American students to advance to ENSL B70. Focuses on grammar review, extensive sentence and paragraph writing, and vocabulary development.

Note: Formerly ENSL B55ab. Identical to ENSL B80.

Hours: 72 lecture

Repeat: unlimited

CCS: Pre-collegiate basic skills

Transferable: Associate Degree only. Not transferrable.

Fire Technology Courses

FIRE B1 Fire Protection Organization

3 units

Prerequisites: FIRE B1

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.

Note: elective or degree credit.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

FIRE B2 Personal Fire Safety and Emergency Action

3 units

Prerequisites: FIRE B1 with a grade of 'C' or better.

Description: This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

FIRE B3 Fire Command, Strategy, Tactics

3 units

Prerequisites: FIRE B1 with a grade of 'C' or better.

Description: Fundamentals of fire department organization, management, and resources, and the use of those resources to control various emergencies. Field trips required.

Hours: 54 lecture

CCS: Occupational 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 characteristics of materials, extinguishing agents, and fire control techniques. Field trips may be required.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

FIRE B5 Fire Prevention Technology

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. Provides skills necessary for California Fire Service Training and Education System. Certified Firefighter I and Fire Inspector I.

Hours: 54 lecture

CCS: Occupational Education

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: 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. Field trips required.

Hours: 54 lecture

CCS: Occupational Education

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 inter-agency 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 B25F Wildland Firefighter

4 units

Description: Provides basic principles of wildland fire control. Prepares the student for entry level employment on a wildland hand tool fire crew. Meets the basic requirements for the U.S. Forest Service firefighter qualification system. Intended for students to pursue a career with a wildland fire suppression agency or for a specialty with a municipal fire control agency.

Hours: 74 lecture, 16 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: CSU and private colleges

FIRE B25G Wildland Engine Firefighter

3 units

Description: Prepares students to perform the duties of a wildland firefighter assigned to an engine company. Includes hose lays, types of attack with engines, backfiring equipment hand tools, self-contained breathing apparatus, map reading and communications. Course includes National Wildfire Coordinating Group curriculum. 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 B25H Wildland Fire Dispatcher

3 units

Description: Provides the skills to perform entry level tasks within an all risk emergency dispatch system. Coursework includes D-105 Entry Level Dispatcher, D-110 Dispatch Recorder, and D-310 Dispatch Supporter. Subjects covered include: communications, logs and filing, maps, resource status, dispatching aircraft, processing weather, first response/initial attack dispatching, support for initial attack, expanded dispatch, demobilization, accident/incident reporting, public information, resource order and process, forms and associated processes, and intelligence processing. Utilizes National Wildfire Coordinating Group curriculum. 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 B26A S-200 Initial Attack Incident Commander

Type 4 (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: Occupational Education

Transferable: CSU and private colleges

FIRE B26D Interagency Incident Business Management

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: 16 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

FIRE B26E S-215 Fire Operations 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: 32 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

FIRE B26G 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 unit

Description: Prepares the student to perform the duties of a Field Observer within the Incident Command System. Meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 20 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

FIRE B26M S-245 Display Processor

0.5 unit

Description: Prepares the student to perform the duties of the S-245 Display Processor within the Incident Command System. Meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildfire fire management

agencies and municipal fire departments.

Hours: 8 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

FIRE B27A I-200 Basic Incident Command System

1 unit

Description: Provides the basic features of the Incident Command System. Topics include orientation, principles and features, organization, incident fatalities, incident resources, and common responsibilities. Intended for students to pursue a career with a wildland fire suppression agency or for a specialty with a municipal fire control agency.

Hours: 16 lecture

CCS: Occupational Education

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.

Hours: 27 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

FIRE B28B Followership to Leadership

1 unit

Description: Provides the student with leadership skills specific to wildland firefighting. Meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments. Includes classroom and field exercises.

Hours: 18 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

FIRE B29 Wildland Fire Chain Saws

2 units

Description: Prepares students to become a wildfire power saw 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 Curriculum. Intended for students to pursue a career with a wildland fire management agency or for a specialty with a municipal fire control agency.

Hours: 32 lecture

Repeat: unlimited

CCS: Occupational Education

Transferable: CSU and private colleges

FIRE B50A Fire Command 2A-Command Tactics at Major Fires

2 units

Prerequisites: FIRE B51b or FIRE B51c with grades of 'C' or better.
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: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B50B Fire Command 2B-Scene Management at Major Incidents

2 units

Prerequisites: FIRE B50A with a grade of 'C' or better or equivalent.

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: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B50C Fire Command 2C-High Rise Fire Tactics

2 units

Prerequisites: FIRE B51b with a grade of 'C' or better.

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: 27 lecture, 13 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B50D Fire Command 2D-Management of Disasters

2 units

Prerequisites: FIRE B50A with a grade of 'C' or better or equivalent.

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: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B50E Fire Command 2E-Wildland Fire Tactics

2 units

Prerequisites: Fire B50a with a grade of 'C' or better.

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 CFSTES Chief Officer certification requirements.

Hours: 36 lecture, 4 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B50F Fire Management 2A-Organizational Development and Human Relations

2 units

Prerequisites: FIRE B51A with a grade of 'C' or better.

Description: Provides sound management principles in preparation for Chief Officer. Includes internal and external influences: personal behavior of fire fighters; managing human relations through group

dynamics; and problem solving techniques. Accredited by the California Fire Service Training and Education System (CFSTES) for Chief Officer Certification.

Hours: 36 lecture, 4 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B50G Fire Management 2B-Fire Service Financial Management

1 unit

Description: Provides insight into the cyclical nature of budgeting and financial management. Chief officers, company officers, staff officers, or other fire service managers will become familiar with essential elements of financial planning, budget preparation, budget justification, and budget controls.

Hours: 18 lecture, 22 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B50I Fire Management 2D-Master Planning

2 units

Prerequisites: FIRE B50f with a grade of 'C' or better.

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, 4 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B50J Fire Management 2E-Staff Assignments and Line Functions

2 units

Prerequisites: FIRE B50f with a grade of 'C' or better.

Description: Relationships with legislative bodies, organizational techniques, goal setting, planning-organizing and controlling, production measurement, evaluation of program effectiveness, civilians of public safety services, public safety employees contractual system, development of department programs and municipal fire insurance programs. Accredited by the CFSTES for Chief Officer certification.

Hours: 40 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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. Recommend: reading level 1 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 transferrable.

FIRE B51B Fire Command 1A

2 units

Prerequisites: FIRE B1 with a grade of 'C' or better or equivalent.

Description: Fundamental information and experience in command

and control techniques at emergency locations. Emphasizes commanding, the authority or right to command, personnel, organization or area under a commander and the performance requirements for Fire Service Officers.

Hours: 40 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B51C Fire Command 1B

2 units

Prerequisites: FIRE B51b with a grade of 'C' or better.

Description: Information and experience 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 commander and the performance requirements for Fire Service Officers.

Hours: 40 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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 transferrable.

FIRE B51E Fire Prevention 1B

2 units

Recommended: FIRE B51d

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: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B51F Fire Investigation 1A

2 units

Prerequisites: FIRE B62 with a grade of 'C' or better or equivalent.

Description: 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 POST certification requirements.

Hours: 40 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B51G Fire Instructor 1A

2 units

Prerequisites: FIRE B50 with a grade of 'C' or better.

Description: In-service training programs emphasizing occupational analysis, course outlines, concepts of learning, levels of instruction, behavioral objectives, lesson plans, the psychology of learning, evaluation of effectiveness and student teaching demonstrations are included.

Hours: 36 lecture, 4 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B51H Fire Instructor 1B

2 units

Prerequisites: FIRE B51g with a grade of 'C' or better.

Description: Continuation of FIRE B51g. Emphasizes instructors roles and responsibilities, course outline development, lesson plan review, instructional aid development, fundamentals of testing and measurements, and student teaching demonstrations.

Hours: 36 lecture, 4 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B51I Fire Prevention 1C

2 units

Prerequisites: FIRE B51d, FIRE B51e with grades of 'C' or better.

Description: Special hazards associated with flammable and combustible liquids and gases. Topics include bulk storage and handling, transportation of flammable gases and liquids. Meets NFPA 1031 Fire Inspection Professional Qualifications and California State Board of Fire Services Standards for Fire Prevention Officer 1

Hours: 36 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B51J Fire Investigation 1B

2 units

Prerequisites: FIRE B51f with a grade of 'C' or better.

Description: Continuation of FIRE B51f adds topics of discussion including the juvenile fire setter, report writing, evidence collection and preservation procedures. Course meets POST certification requirements.

Hours: 40 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B51L Fire Apparatus Driver Operator 1A

2 units

Prerequisite: California Class B drivers 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 Standards for Fire Apparatus Driver/Operator Professional Qualification. 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: Non-standard 40

CCS: Occupational Education

Transferable: Associate Degree only

FIRE B59 Fire Service Hydraulics

2 units

Recommended: MATH B50 with a grade of 'C' or better, or equivalent.

Description: Assist fire fighters, pump operators and engineers in meeting the requirements for Fire Apparatus Driver/Operator certification. Content covers characteristics of water, friction loss, engine pressure, multiple lines, unequal layouts, pump and pumpers and

field equations.

Hours: 36 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B60 Driver/Operator Certification

3 units

Recommended: FIRE B62 with a grade of 'C' or better.

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: 64 lecture, 64 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B61 Fire Fighter Trainee Academy

3 units

Recommended: Reading Level 4

Description: Basic educational and practical training essential for firefighter trainees. Emphasizes organizational procedures, forcible-entry tools, protective breathing apparatus, emergency medical care, inspection procedures, fire protection equipment and systems; wild-land fire control; fire behavior; and petroleum fire procedures.

Hours: 54 lecture, 66 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B62 Fire Fighter I Academy

11 units

Recommended: FIRE B1, B2, B3, B4, B5, B6 with grades of 'C' or better, or equivalent.

Description: Basic educational and practical training essential for Fire Fighter I. Advanced study of organizational procedures; forcible entry tools; protective breathing apparatus; emergency medical care; inspection procedures; fire protection equipment and systems; wild-land fire control; fire behavior; and petroleum fire procedures.

Hours: 144 lecture, 178 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B63 Fire Fighter II Academy

6 units

Recommended: FIRE B62 with a grade of 'C' or better, or equivalent.

Description: Advanced academic and manipulative training essential for the achievement of job tasks specified for Fire Fighter II. Covers inspection and maintenance of equipment, fire protection surveys, fire prevention inspections, reports and plans and fire alarm features. Meets requirements for the California State Board of Fire Services, Fire Fighter II certification.

Hours: 235 lecture/laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B65 Fire Service Staff Development Training

3 units

Description: Staff development training that provides students with contemporary firefighting techniques. Topics include the latest concepts involving: organizational development; fire services appliances; fire chemistry; automatic fire extinguisher and agents; fire prevention and enforcement; arson investigation; public safety; hazardous materials control and enforcement; mutual aid/joint powers agreement; communications; personal health issues; and emergency

rescue techniques.

Hours: 26 lecture, 52 laboratory

Repeat: 3

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B66 Fire Fighting and Emergency Medical Skills Training

8 units

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: 52 lecture, 130 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B67 Emergency Telecommunicator

3 units

Description: Designed to provide students with a clearer understanding about being a professional Telecommunicator and help transfer that knowledge into positive actions that will assist callers and help bring each call to its best conclusion. Emphasizes decision-making, the act of dispatching, interacting with various types of public service agencies, personnel, and different organizational structures.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B68 Emergency Medical Dispatch

3 units

Description: Designed to provide the dispatcher with information, training and experience in providing pre-arrival instructions over the telephone in medical emergency situations. Emphasizes decision-making in a non-visual environment, the act of working in concert with a reporting party to help mitigate a medical emergency until trained medical personnel arrive on scene. Instructs the student in the authority, personnel, organizational structure and their role in the emergency medical environment.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B70A Hazardous Materials for First Responders

0.5 unit

Recommended: FIRE B1 with a grade of 'C' or better, or equivalent.

Description: 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.

Hours: 18 lecture, 18 laboratory

Repeat: 1

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B70B First Responder Operational-Decontamination

0.5 unit

Description: Provide members of a decontamination team at a hazardous materials incident with a primary understanding of the processes used in decontamination and knowledge to perform in a safe and competent manner to limit the spread of contamination.

Hours: 9 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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: 36 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B70D Hazardous Materials Tech/Spec 1A: Basic Chemistry

1 unit

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.

Hours: 18 lecture, 22 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B70E Hazardous Materials Tech/Spec 1B: Applied Chemistry

1 unit

Description: A review of the basic terminology and theory of chemistry as it relates to hazardous materials incident management.

Content includes: 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: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B70F Hazardous Materials Tech/Spec 1C: Incident Considerations

1 unit

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.

Hours: 40 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B70G Hazardous Materials Tech/Spec 1D: Tactical Field Operations

1 unit

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.

Hours: 40 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B70H Hazardous Materials Tech/Spec 1E: 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: 40 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B70I Hazardous Materials Tech/Spec 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: 40 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B71A Seasonal Firefighter Basic Training 1

2 units

Description: This is the same information/course presented to all first year wildland firefighters. All of the federal fire agencies and many municipal fire departments recognize this course as the foundation to all subsequent fire training. This is course will provide students with an understanding of wildland firefighting principals, tactics, organization, and fire line safety.

Hours: 9 lecture, 31 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B71B Seasonal Firefighter Bas Training 2

1 units

Recommended: Evaluation by instructor.

Description: Manipulative and technical training in the identification and operation of 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

Repeat: 2

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

FIRE B72A Heavy Duty Rescue 1-2-3

0.5 unit

Recommended: FIRE B2, FIRE 72H with grades of 'C' or better, or equivalent.

Description: Technical knowledge and practical skills necessary to successfully perform heavy duty rescue emergencies. Emphasizes methods and procedures for utilizing heavy duty rescue equipment, maintaining and storing of heavy duty rescue equipment, and recognizing basic types of building construction and their collapse characteristics resulting from various causes. Accredited by the California Fire Service Training and Education System.

Hours: 18 supervised tutoring

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B72B Heavy Duty Rescue 1-2-3

0.5 unit

Recommended: FIRE B2, FIRE 72H with grades of 'C' or better, or equivalent.

Description: Technical knowledge and practical skills necessary to successfully perform heavy duty rescue emergencies. Emphasizes methods and procedures for utilizing heavy duty rescue equipment, maintaining and storing of heavy duty rescue equipment, and recognizing basic types of building construction and their collapse characteristics resulting from various causes. Accredited by the California Fire Service Training and Education System.

Hours: 36 lecture/laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B72C Heavy Duty Rescue 1-2-3

1 unit

Recommended: FIRE B2, FIRE 72H with grades of 'C' or better, or equivalent.

Description: Technical knowledge and practical skills necessary to successfully perform heavy duty rescue emergencies. Emphasizes methods and procedures for utilizing heavy duty rescue equipment, maintaining and storing of heavy duty rescue equipment, and recognizing basic types of building construction and their collapse characteristics resulting from various causes. Accredited by the California Fire Service Training and Education System.

Hours: 54 lecture/laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B72D Swift Water Rescue

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, 12 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B72E Advanced Swift Water Rescue

1 unit

Recommended: FIRE B72d with a grade of 'C' or better.

Description: Refinement of skills in manipulating and controlling activities at heavy swift water rescue scenes. Includes advanced river crossing techniques, cross river strokes management, swift water search techniques, and team organizational requirements.

Hours: 20 lecture/laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B72F Auto Extrication

0.5 unit

Description: A systematic approach to vehicle rescue, and the use of mechanical and had tools used in the extrication process.

Hours: 9 lecture, 9 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B72G Aircraft Fire Protection and Rescue Procedures

1 unit

Recommended: FIRE B62 with a grade of 'C' or better.

Description: Information, methods and techniques necessary for providing crash fire rescue services at airports. Including utilizing conventional fire apparatus and specialized crash fire rescue apparatus, crash fire rescue, extinguishing agents, various types of aircraft and operations at crash scenes.

Hours: 18 lecture, 18 laboratory

Repeat: 3

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B72H Emergency Medical Technician I

5 units

Recommended: FIRE B1 with a grade of 'C' or better.

Description: 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.

Hours: 68 lecture, 70 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FIRE B72I Emergency Medical Technician I Refresher

1 unit

Recommended: Possession of a valid EMT 1 which is current in Kern County.

Description: Updates the skills of EMT 1 Certificate holders as prescribed by law. Reviews and updates material in FIRE B72h - EMT 1 - Non-Ambulance.

Hours: 16 lecture, 12 laboratory

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B74 Petroleum Fire Procedures

0.5 unit

Recommended: FIRE B50A with a grade of 'C' or better, or equivalent.

Description: Practical experiences in various firefighting procedures involving flammable liquid fire emergencies, at/or near petroleum installations. Includes utilization of safety practices and extinguishment of various types of petroleum product fires. Certified by the California State Fire Service Training and Educational Program.

Hours: 3 lecture, 6 laboratory

Repeat: 1

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B75 Fire Fighting Techniques

0.5 unit

Recommended: FIRE B62 with a grade of 'C' or better.

Description: Advanced techniques of fire control involving the utilization of personnel, equipment, and extinguishing agents in emergency situations.

Hours: 9 to 27

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B77 Advanced Structure Fire Training

0.5 unit

Recommended: FIRE B62 with a grade of 'C' or better.

Description: Latest techniques in structure fire control. Specialized firefighting techniques used to control residential, commercial and high-rise building fires.

Hours: 9 to 36

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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

Repeat: 1

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B81 Orientation to Fire Technology

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. Includes information on the certification system, administrative procedures, curriculum development and organization, publication format and style, and teaching strategies for accredited regional courses.

Hours: 9 to 24

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

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 transferrable.

FIRE B83C Interagency Helicopter Training Guide

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: 40 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

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 transferrable.

FIRE B83G Base/Camp 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: 32 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B83H 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 transferrable.

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 transferrable.

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 transferrable.

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 transferrable.

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 transferrable.

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 transferrable.

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 transferrable.

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: 12 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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: 10 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

FIRE B83R Demobilization 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 Man-

agement System.

Hours: 16 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B83S Resources 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 transferrable.

FIRE B83T Facilities 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: 32 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B83U Ground Support 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: 9 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B83V Supply 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 transferrable.

FIRE B83W Food 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 transferrable.

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

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B83Y Time 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: 12 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B83Z Procurement 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: 12 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84A Helicopter Coordinator

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 12 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84B Air Support Supervisor

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 32 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84C Air Tanker Coordinator

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 32 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84D Air Attack Supervisor

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 32 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84E Incident Commander

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 24 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84F Safety Officer

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 32 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84G Information Officer

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certifications standards set by the National Interagency Incident Management System.

Hours: 32 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84H Command and General Staff

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 40 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84I Operation Section Chief

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 40 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84J Planning Section Chief

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 32 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84K Logistics Section Chief

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 32 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84L Finance Section Chief

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 32 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84M Air Operations Branch Director

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 24 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84N Intermediate Air Operations

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 40 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

FIRE B84O Introduction to Wildland Fire Behavior Calculations

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 18 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferrable.

FIRE B84P Advanced Wildland Fire Behavior Calculations

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 40 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferrable.

FIRE B84Q Introduction to Wildland Fire Suppression for Rural Fire Departments

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 12 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferrable.

FIRE B84R CWN (Call When Needed) Helicopter Module Leader

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 40 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferrable.

FIRE B84T Dozer Boss

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares personnel from municipal, county, state, and federal fire services agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 32 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferrable.

FIRE B84U Strike Team/Task Force Leader

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System.

Hours: 12 to 40
CCS: Occupational Education
Transferable: Not degree applicable. Not transferrable.

FIRE B84V Crew Representative

0.5 unit

Description: Professional development workshops and seminars related to specific topics of the Incident Command System. Prepares

personnel from municipal, county, state, and federal fire service agencies in meeting certification standards set forth by the National Interagency Incident Management System.

Hours: 9 to 40
CCS: Occupational Education
Transferable: Not degree applicable. Not transferrable.

FIRE B85 Special Topics

0.5 units

Description: Various mandated training topics required by California State Fire Marshal (CSFM).

Hours: 9 for each .5
Repeat: unlimited
CCS: Occupational Education
Transferable: Degree applicable

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. Fields trips required.

Hours: 36 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferrable.

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: Occupational Education
Transferable: Associate Degree only. Not transferrable.

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: Occupational Education
Transferable: Associate Degree only. Not transferrable.

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. Cookery principles relating to stocks, sauces, soups, meats, vegetables, salads, potatoes, and starches.

Note: Field trips may be required.

Hours: 45 lecture

Repeat: 2

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FDSV B55B Food Service Production Theory II

2.5 units

Recommended: Reading - one level prior to transfer.

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

Repeat: 2

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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: Associate Degree only. Not transferrable.

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: Associate Degree only. Not transferrable.

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 transferrable.

FDSV B55F 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

Repeat: 2

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FDSV B55I 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 transferrable.

FDSV B56 Special Projects

1 unit

Prerequisites: Completion of the first-year curriculum of the foods and nutrition program with a grade of 'B'.

Recommended: Reading - one level prior to transfer. Recommendation by faculty member.

Description: Research and project development in special interest areas relating to the food service industry. Topics must extend study beyond the current curriculum and require departmental approval. A minimum of 18 hours for outside-of-class assignments is required.

Hours: 18 supervised tutoring

Repeat: 1

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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 hospital-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 transferrable.

FDSV B64A 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 supervised tutoring

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

FDSV B71 ServSafe Certification

0.5 unit

Recommended: Reading - one level prior to transfer.

Description: Basic principles and procedures of food safety training including prevention of food-related illnesses and the development and implementation of food safety systems in food facilities. Course is designed for managers and employees to meet/renew the minimum food safety certification requirements of California legislation effective January 1, 2000. Certificate of Sanitation is awarded from the Educational Foundation of the National Restaurant Association upon passing the required exam. Repeats: Unlimited.

Hours: 9 lecture

Repeat: unlimited

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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

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

French Courses

FREN B1 Elementary French

5 units

Recommended: Reading - one level prior to transfer.

Description: Introduction to French language and culture by means of a program that combines video, audio and print media into an integrated method of planned immersion. Emphasis is on communication in the language with special attention given to listening comprehension and pronunciation. Requires practice with audiotape

program outside of regular class time.

Hours: 90 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

FREN B2 Elementary French

4 units

Prerequisites: FREN B1 (with minimum grade of 'C' or better), or two years of high school French.

Description: Continued study of French language and culture using the planned immersion approach begun in FREN B1. Listening comprehension and pronunciation continue to be emphasized, along with the development of writing skills. Requires practice with audio-tape program outside of regular class time.

Hours: 72 lecture

Repeat: 1

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

Geography Courses

GEOG B1 Physical Elements of Geography

3 units

Recommended: Reading - one level prior to transfer.

Description: A study of the basic elements of physical geography and the world as a system. Important elements include the atmosphere, weather and climate, geomorphology, and Earth's structure. The main goal of the course is to provide students with a greater understanding and appreciation for their physical environment, with special attention given to terrestrial relationships.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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.

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, and topographic map interpretation.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

GEOG B2 Human Geography

3 units

Recommended: Reading - one level prior to transfer.

Description: Human Geography is designed to demonstrate how people interact culturally with their environment. Special emphasis will be placed on concepts such as population, movement, cultures, and civilizations. Economic factors affecting people's lives and religion will also be emphasized.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

GEOG B3 Introduction to Weather and Climate

3 units

Recommended: Reading - one level prior to transfer.

Description: Introduction to weather and climate focuses on changes in weather and climate patterns throughout the world. Special emphasis will be given to atmospheric phenomena such as El Nino, hurricanes, tornadoes, and weather mapping. In addition, atmospheric forces such as the pressure gradient and coriolis force will be discussed in detail.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: 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 taken GEOL B1A.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

GEOL B10L Introduction to Geology Laboratory

1 unit

Prerequisites: GEOL B10 (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

Transferable: UC, CSU and private colleges

GEOL B11 Historical Geology

3 units

Prerequisites: Reading - one level prior to transfer. At least one Saturday field trip or equivalent required.

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.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

GEOL B11L Historical Geology Laboratory

1 unit

Prerequisites: GEOL B11 may be taken before the lab or it 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

Transferable: UC, CSU and private colleges

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**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.**Note:** Field trips required.**Hours:** 18 for each 1**Repeat:** 3**CCS:** Liberal Arts/Science**Transferable:** UC, CSU and private colleges**GEOL B35A Rocks and Minerals***1 unit***Recommended:** Reading - one level prior to transfer. Field trip required.**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.**Hours:** 18 lecture**CCS:** Liberal Arts/Science**Transferable:** CSU and private colleges**GEOL B35B Geology of Kern County***1 unit***Recommended:** Reading - one level prior to transfer. Field trip required.**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:** CSU and private colleges**Health Education Courses****HLED B1 Principles of Health Education***3 units***Recommended:** Reading - one level prior to transfer.**Description:** Health and health-related services. Includes emotional health, nutrition, drugs, marriage and family, physical disease, exercise and environmentally related health concerns.**Hours:** 54 lecture**CCS:** Liberal Arts/Science**Transferable:** UC, CSU and private colleges**History Courses****HIST B1 World History from the Origins of Civilization to 1500***3 units***Recommended:** ENGL B50/ENSL B50. Reading - 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**HIST B2 History of the World Since 1500***3 units***Recommended:** ENGL B50. Reading - one level prior to transfer.**Description:** Interdisciplinary multimedia approach to the development of our interconnected and interdependent modern world since the 16th Century. Emphasis is on comparative history, world systems, modernization theory, cultural diffusion, and ecologies of core/periphery associations.**Hours:** 54 lecture**CCS:** Liberal Arts/Science**Transferable:** UC, CSU and private colleges**HIST B3 Modern Global Societies***3 units***Recommended:** Eligibility for ENGL B1. Reading - one level prior to transfer.**Description:** A comparative global history of the modern world through an examination of the different economic, intellectual, political, religious, cultural and social ideas and institutions of diverse world societies as they adapted to the modern world. This 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**HIST B4A European Civilization***3 units***Recommended:** Eligibility for ENGL B50. Reading - 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

HIST B4B European Civilization

3 units

Recommended: Reading - one level prior to transfer. Writing - one level below transfer.

Description: A survey history of the early and late modern eras in European History and its influence on other westernized nations. 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

Transferable: UC, CSU and private colleges

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

HIST B17A History of the United States

3 units

Recommended: English 50 or reading - one level prior to transfer and writing - one level prior to transfer.

Description: Survey of the political, economic and cultural history of the United States from earliest colonial times to 1877. Includes a study of the U.S. Constitution and federal government. Partially satisfies the requirements in U.S. Constitution, American history and institutions. HIST B17A is not a prerequisite to HIST B17B.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

HIST B17B History of the United States Since 1870

3 units

Recommended: English 50 or reading - one level prior to transfer and 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 a study of the U.S. Constitution and federal government. Partially satisfies the requirements in U.S. Constitution and American history and institutions. HIST B17A is not a prerequisite to HIST B17B.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

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

HIST B20B African American History of the United States

3 units

Recommended: Reading and writing 1 level below transfer. **De-**

scription: 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.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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 1900 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

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

HIST B30B History of Chicanos in the Southwest (CHST B30B)

3 units

Recommended: Eligibility for English Level 50 and reading - one level prior to transfer.

Description: Survey of the Chicanos and the United States with an emphasis on the development of California and the Southwest from 1848 to the present. Examines significant events in at least 100 years of U.S. history, the relationships of regions within the U.S. area, the relationship with external regions and powers, the role of major ethnic groups, the continuity of American experience and the derivation from other cultures. Also examines the aftermath of the U.S. Mexican War, 1846-1848, the interrelationship of Mexican and U.S. history between 1860 and 1910; the effects of the Mexican Revolution of 1910 on the 20th century experience of Chicanos in the U.S., and the study of the California State Constitution. Satisfies requirements in U.S. Constitution, American history and institutions.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

HIST B33 Latin American History

3 units

Recommended: Reading - 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 taken the equivalent course, CHST B33.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

HIST B36 History of Native American Indians

3 units

Recommended: ENGL/ENSL 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

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: Writing and 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

Recommended: 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 B10 Introduction to Industrial Drawing and Graphics

1 unit

Description: Introductory course dealing with conventional drafting methods to obtain graphic solutions, design modifications, and create delineations for industrial, architectural and engineering drawings. Emphasizes basic drafting skills.

Hours: 9 lecture, 27 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

INDR B11 Introduction to Computer Aided Drafting and Drawing (CAD)

1 unit

Description: Introductory course utilizing a computer aided drafting and design (CAD) program to obtain graphic solutions, design modifications, and delineations for industrial, architectural, and engineering drawings. Emphasizes building skills necessary to function as a CAD operator in industry. (Transferable to CSU as an elective.)

Hours: 9 lecture, 27 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

INDR B12 Introduction to Drafting and CAD

2 unit

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.

CCS: Occupational Education

Transferable: CSU and private colleges

INDR B20A Computer Aided Drafting and Design (CAD)

3 units

Prerequisites: INDR B10 and INDR B11 with grades 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.

Hours: 27 lecture, 81 laboratory

CCS: Occupational Education

Transferable: 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.

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

CCS: Occupational Education

Transferable: CSU and private colleges. Associate Degree applicable.

INDR B50 Process Piping

3 units

Prerequisites: INDR B10 and INDR B11.

Description: An intermediate-level CAD course that is structured to impart the foundation knowledge and essential technical skills required to succeed in the field of process pipe drafting. Areas of study include units on industry standards, delineation conventions, and the creation of piping plans, isometric drawings, and process flow diagrams.

Hours: 27 lecture, 81 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

INDR B51 Electrical Design

3 units

Prerequisites: INDR B10 and INDR B11 with minimum grade of C.

Description: Introduces the student to the drawing and drafting techniques used in the preparation of electrical construction drawing in industry today. Emphasizes concepts of design to the student utilizing various national, state, and local rules and codes (e.g. 1987 National Electrical Code).

Hours: 27 lecture, 81 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

INDR B52 Civil Drafting and Geographic Information

Systems

3 units

Prerequisites: INDR B20a with a grade of 'C' or better.

Description: Modern Geographic Information Systems. Students will use CAD software to perform model-based infrastructure planning and development. Emphasis on solving problems in either Land Information Systems or Facilities Management Systems. Database Management will also be emphasized.

Hours: 27 lecture, 81 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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 requirement for graduation from Bakersfield College. Elective credit only.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

INDT B271 Special Problems in Welding

2 units

Prerequisites: WELD B1a or WELD B53a with a grade of 'C', or equivalent experience or evaluation by instructor. Completed Petition for Individual Study form.

Recommended: Reading - one level prior to transfer. Enrollment is contingent on available lab space.

Description: Provides individual students the opportunity to explore various segments of welding, such as various welding processes and codes, fabrication techniques, layout, and testing preparation for certification. 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: 54

Repeat: 2

CCS: Occupational Education

Transferable: Degree applicable

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.

Recommended: Reading - one level prior to transfer. Enrollment is contingent on available lab space.

Description: Provides individual students the opportunity to ex-

plore 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: for each 2

Repeat: none

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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.

Recommended: Reading - one level prior to transfer. Enrollment is contingent on available lab space.

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: for each 2

Repeat: none

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

INDT B274 Special Problems in Woodworking

2 units

Recommended: Concurrent enrollment in a woodworking technology related course or previous woodworking and/or cabinetmaking experience.

Description: 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. Repeat 2 or until a limit of 6 units is reached.

Hours: 108

Repeat: none

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

INDT B275 Special Problems in Automotive/Motorcycle

2 units

Recommended: Basic automotive knowledge.

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.

Note: Enrollment is contingent on available lab space.

Hours: 108 for each 2

Repeat: none

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

Japanese Courses

JAPN B1 Elementary Japanese

5 units

Recommended: Reading - one level prior to transfer.

Description: Introduction to Japanese language and culture. Special emphasis on speaking and understanding Japanese along with

mastering elementary grammar and compositions while learning the characters of Japanese alphabets. Requires practice with audiotape/CD program outside of class.

Hours: 90 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

JAPN B2 Elementary Japanese

5 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: 90 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

JAPN B3 Elementary Japanese

5 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. 100 new kanji (Chinese characters) are introduced in this course.

Hours: 90 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

Journalism Courses

JRNL B1 Media and Society

3 units

Recommended: Writing - one level prior to transfer. Reading - one level prior to transfer. Field trips required.

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.

Hours: 54 lecture

CCS: Occupational Education

Transferable: UC, CSU and private colleges

JRNL B2 Beginning Reporting

3 units

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

3 units

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

3 units

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

Transferable: CSU and private colleges

JRNL B16 Multimedia Reporting

3 units

Recommended: JRNL B15 with a grade of 'C' or better. Writing - one level prior to transfer. Reading - one level prior to transfer.

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

Transferable: CSU and private colleges

JRNL B26 Newspaper Production/Editors

4 units

Recommended: JRNL B2 with a grade of 'C' or better. Writing - one level prior to transfer. Reading - one level prior to transfer.

Description: Designed for editors of the online and print editions of *The Renegade Rip*, Bakersfield College'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

Repeat: none

CCS: Occupational Education

Transferable: CSU and private colleges

JRNL B27A Newspaper Production/Reporters

3 units

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

Repeat: none

CCS: Occupational Education

Transferable: CSU and private colleges

JRNL B27E Newspaper Production/Photographers

3 units

Recommended: JRNL B15. 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

Repeat: none

CCS: Occupational Education

Transferable: CSU and private colleges

Library Courses

LIBR B55 Information Competency

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: none

CCS: Liberal Arts/Science

Transferable: Associate Degree only. Not transferrable.

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

MFGT B53 Machine Tool Set-Up

3 units

Recommended: MFGT B1AB with a grade of 'C' or better.

Description: Machine shop practices with an emphasis on safety, bench work techniques, applied mathematics, setup techniques, used mills, lathes, and drill presses. Also, introduces precision grinding, metallurgy, and heat treatment.

Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferrable.

Mathematics Courses

MATH B1A Pre-calculus I

4 units

Prerequisites: MATH BD/MATH B70 or two years of high school algebra or equivalent with a grade of C.

Recommended: Reading - one level prior to transfer.

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.

Formerly: MATH B1

Hours: 72 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

MATH B1B Pre-calculus II

4 units

Prerequisites: MATH B1a, with a minimum grade of 'C' or equivalent.

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 DeMoivres Theorem; analytic geometry, mathematical induction, and introduction to sequences and series.

Formerly: MATH BC

Hours: 72 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

MATH B2 Basic Functions and Calculus for Business

5 units

Prerequisites: MATH BD/MATH B70 or B200d or two years of high school algebra or equivalent with a grade of 'C'.

Description: Modern concepts in mathematics emphasizing appli-

cations to business. Functions and the basic concepts of differential calculus with introductions to integral calculus and multivariable calculus.

Hours: 90 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

MATH B4A Mathematics for Elementary School Teaching I

5 units

Prerequisites: MATH BD/MATH B70 or equivalent with a grade of 'C'.

Recommended: Reading - one level prior to transfer.

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.

Hours: 90 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

MATH B6A Analytic Geometry and 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.

Hours: 72 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

MATH B6B Analytic Geometry and Calculus II

4 units

Prerequisites: MATH B6A 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.

Hours: 72 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

MATH B6C Calculus III

4 units

Prerequisites: 3, 4, or 5 on the AP-BC Test or MATH B6b or equivalent with a grade of 'C'.

Description: Continuation of Calculus II. Vectors and parametric equations, vector-valued functions, partial differentiation, multiple integrals, vector analysis, including theorems of Green, Gauss and Stokes.

Hours: 72 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

MATH B6D Ordinary Differential Equations

3 units

Prerequisites: MATH B6c with a grade of 'C' or better.

Description: Vector spaces and linear transformations; elementary differential equations; Laplace transforms; series solutions and systems of differential equations; matrices and Eigen values.

Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

MATH B6E Elementary Linear Algebra

3 units

Prerequisites: MATH B6C or equivalent with a grade of 'C'.

Description: Real and complex number fields, vector spaces, linear transformation, matrices, systems of equations and matrix inversion, determinants, eigenvalues and Eigen vectors.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MATH B21 Special Projects

1-2 units

Description: Individually directed work in mathematics, including advanced topics, research projects, special problems and applications of mathematics to specific subject areas. Interested students should talk with their math instructors for an evaluation of their math skills. Field trips may be required.

Hours: 18 for each 1

Repeat: 1

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MATH B22 Elementary Probability and Statistics

5 units

Prerequisites: MATH BD/MATH B70 with grades of 'C' or higher, or equivalent Math course with a 'C' or better.

Description: Graphical methods of description of data, finite probability; discrete and continuous random variables; sampling distributions; hypothesis testing for large and small samples, analysis of variance, nonparametric statistics; linear regression and correlation.

Hours: 90 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MATH B23 Finite Mathematics

3 units

Prerequisites: Math BD/MATH 70 with a grade of 'C' or better or Appropriate Math Placement.

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

MATH B50 Modern College Arithmetic and Pre-Algebra

4 units

Prerequisites: ACDV B77 or equivalent arithmetic course with a grade of 'C' or better or qualifying score on placement assessment.

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 percent, ratios, proportions, exponents, averages, estimation, graphs and measurement. The introduction to algebra includes operations with signed numbers and solving simple equations. Not open to students with credit in MATH B251 and MATH B252.

Hours: 72 lecture

CCS: Pre-collegiate basic skills

Transferable: Not degree applicable. Not transferrable.

MATH B60 Beginning Algebra

5 units

Prerequisites: MATH B50 or Equivalent pre-algebra course with a grade of 'C' or better or Mathematics 2 levels prior to transfer. Fundamental concepts and mathematical processes first degree equations, polynomials, special products and factoring, rational expressions and equations, ratios, proportions, exponents, graphs, simultaneous linear equations.

Description: Fundamental concepts and mathematical processes first degree equating 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 transferrable.

MATH B70 Intermediate Algebra

5 units

Prerequisites: MATH B60/MATH BA or equivalent intro-algebra with a grade of 'C' or better. Mathematics - one level prior to transfer 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.

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 transferrable.

MATH B255 Math Problem Solving

0.5 unit

Description: Designed for math students desiring additional assistance in specific problem solving areas. Students will work on problems for math courses in which they are concurrently enrolled.

Hours: 27 laboratory

Repeat: none

CCS: Liberal Arts/Science

Transferable: Not degree applicable. Not transferrable.

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

MEDS B52 Basic Life Support for Healthcare Providers

0.5 unit

Prerequisites: None.

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 in the class will enable the student to recognize emergencies and how to respond to them.

At the end of the course, the student will qualify for an American Heart Association Healthcare Provider BLS card.

Repeat: As needed for recertification.

Note: In addition to the scheduled hours students must arrange a total of 2 required class hours in which student must obtain materials from the college bookstore. Prior to the first class meeting student must read manual.

Hours: 9 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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, medical billing, and transcribers.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

MEDS B66 Intravenous Therapy and Blood Withdrawal

2 units

Prerequisites: Healthcare provider.

Description: Principles of intravenous therapy and blood withdrawal. Designed to enable the Licensed Vocational Nurse to safely initiate and maintain intravenous therapy in a clinical setting. LVNs successfully completing the course will be certified by the California Board of Vocational Nurse Examiners to initiate and superimpose intravenous fluids.

Hours: 27 lecture, 9 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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 transferrable.

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.

Hours: 63 lecture, 135 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

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: Liberal Arts/Science

Transferable: UC, 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

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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 B6b.

Hours: 54 laboratory

Repeat: 3

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

Repeat: 3

CCS: Liberal Arts/Science

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 stu-

dent 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.

Note: Music B9A is non-repeatable.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

MUSC B10B Concert Band

1 unit

Prerequisites: Limitation on enrollment, audition required.

Description: Rehearsal and performance of standard band literature. Participation in public performances such as concerts, assemblies, and additional rehearsals is required.

Hours: 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B10C Concert Band

1 unit

Prerequisites: Limitation on enrollment, audition required.

Description: Rehearsal and performances of standard band literature. Participation in public performances such as concerts, assemblies, and additional rehearsals is required.

Hours: 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B10D Concert Band

1 unit

Prerequisites: Limitation on enrollment, audition required.

Description: Rehearsal and performance of standard band literature. Participation in public performances such as concerts, assemblies, and additional rehearsals is required.

Hours: 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B12A 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

Transferable: UC, CSU and private colleges

MUSC B12B College Orchestra

1 unit

Prerequisites: Limitation on enrollment, audition required.

Description: Performance of standard works from the orchestra literature. Field trips required.

Hours: 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B12C College Orchestra

1 unit

Prerequisites: Limitation on enrollment, audition required.

Description: Performance of standard works from the orchestra literature. Field trips required.

Hours: 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B12D College Orchestra

1 unit

Prerequisites: Limitation on enrollment, audition required.

Description: Performance of standard works from the orchestra literature. Field trips required.

Hours: 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B13A Jazz Ensemble

1 unit

Recommended: Reading - one level prior to transfer.

Description: Practical experience in organizing instrumental combinations. Training in standard dance band phrasing and improvisation with performances at various functions.

Hours: 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B13B Jazz Ensemble

1 unit

Recommended: Reading - one level prior to transfer. Field trips required.

Description: Practical experience in organizing instrumental combinations. Training in standard dance band phrasing and improvisation with performances at various functions.

Hours: 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B13C Jazz Ensemble

1 unit

Recommended: Reading - one level prior to transfer.

Description: Practical experience in organizing instrumental combinations. Training in standard dance band phrasing and improvisation with performances at various functions.

Hours: 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B13D Jazz Ensemble

1 unit

Recommended: Reading - one level prior to transfer. Field trips are required.

Description: Practical experience in organizing instrumental combinations. Training in standard dance band phrasing and improvisation with performances at various functions.

Hours: 54 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

MUSC B14B 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

Transferable: UC, CSU and private colleges

MUSC B14C 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

Transferable: UC, CSU and private colleges

MUSC B14D 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

Transferable: UC, CSU and private colleges

MUSC B15A Ear Training and Sight Singing

1 unit

Corequisite: MUSC B230A and MUSC B4a.

Description: Drill in the singing and recognition of intervals, scales, and melodies with solfège syllables using moveable do. Practice in rhythmic, harmonic, and melodic dictation. Practice in conducting and performing rhythms.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B15B Ear Training and Sight Singing

1 unit

Prerequisites: Concurrent enrollment in MUSC B4b.

Description: Drill in the singing and recognition of intervals, scales, and melodies with solfège syllables using moveable do. Practice in rhythmic, harmonic, and melodic diction. Practice in conducting and performing rhythms. Increasing complex and difficult exercises commensurate with

Corequisite: theory course level.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B15C Intermediate Ear Training and Sight Singing

1 unit

Corequisite: MUSC B4c and MUSC B230c.

Description: Aural skill training in chromatic, post-tonal, and jazz oriented materials including exercises in singing, keyboard, dictation (melodic, rhythmic, and harmonic), and scale/mode/chord aural recognition.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B17A Chamber Singers

1.5 units

Prerequisites: Limitation on enrollment: Audition. Field trips for performances are required

Description: A select choral group, specializing in rehearsal and performance of all choral literature for all historical periods. Public performance required for credit.

Hours: 81 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B17B 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

Transferable: UC, CSU and private colleges

MUSC B17C 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

Transferable: UC, CSU and private colleges

MUSC B17D 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

Transferable: UC, CSU and private colleges

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 transferrable.

MUSC B18B 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 performance 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 transferrable.

MUSC B18C 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 transferrable.

MUSC B18D 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 performance 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 transferrable.

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

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

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

Transferable: UC, CSU and private colleges

MUSC B23 Appreciation of Jazz*3 units*

Recommended: Reading - one level prior to transfer.

Description: History and appreciation of jazz. Lectures, private listening, and concert attendance are required.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

MUSC B24 A Survey of World Music*3 units*

Description: An introductory course surveying the dominant musical cultures of the new non-western world with comparisons to 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

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

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

CCS: Liberal Arts/Science

Transferable: Not degree applicable. Not transferrable.

MUSC B54B College Chorale*1 unit*

Prerequisites: Previous experience in a choral group and demonstrated proficiency. Field trips for performances are required.

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.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: Not degree applicable. Not transferrable.

MUSC B54C College Chorale*1 unit*

Prerequisites: Previous experience in a choral group and demonstrated proficiency. Field trips for performances are required.

Recommended: Reading - one level prior to transfer.

Description: Select choral ensemble of mixed voices specializing in the rehearsal and performances of major choral works. Repertoire is selected from choral literature of all periods.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: Not degree applicable. Not transferrable.

MUSC B54D College Chorale*1 unit*

Prerequisites: Previous experience in a choral group and demonstrated proficiency. Field trips for performances are required.

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.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: Not degree applicable. Not transferrable.

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 transferrable.

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 transferrable.

MUSC B230C Music Laboratory

0.5 unit

Description: A computer-based, positive attendance course featuring self-pacing programmed system instruction in one or 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 transferrable.

Natural Resources Management Courses

NRES B1 Range Management

3 units

Recommended: Reading - 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: Occupational Education

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

CCS: Occupational Education

Transferable: CSU and private colleges

Nutrition Courses

NUTR B10 Elementary Nutrition

3 units

Recommended: Reading - 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: Occupational Education

Transferable: UC, CSU and private colleges

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 transferrable.

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: CSU 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, seed-age, cuttage, plant structure, rooting aids, transplanting, stepping up, and potting will be covered.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: CSU 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: CSU and private colleges

ORNH B4 Plant Propagation

3 units

Recommended: Reading - one level prior to transfer. 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: Occupational Education

CCS: Occupational Education

Transferable: CSU and private colleges

ORNH B5 Nursery Management

3 units

Recommended: Reading - one level prior to transfer.

Description: Commercial nursery operations. Propagation, propagation media, nursery design, propagation structures, plant structure, rooting aids, transplanting, stepping up and potting greenhouse and nursery plants.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: CSU 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: CSU 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. Field trips may be required. Elective credit only.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

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

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

PHIL B9 Critical Thinking and Advanced Composition

4 units

Prerequisites: ENGL B1A with a grade of 'C' or better. Writing - one level prior to transfer.

Description: Development of critical thinking skills necessary for evaluating and formulating argumentative/ persuasive essays, and practice in applying those skills.

Hours: 72 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

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

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

PHIL B32 World Religions: East

3 units

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Survey of two main Eastern religions-Hinduism and Buddhism, and study of other important Asian religions such as Jainism, Sikhism, Lamaism, Confucianism, Taoism, and Shinto. Topics include each religions history, sacred scriptures, geographic dispersion, primary theological concepts and spiritual practices, and its role in contemporary society. Emphasis will be placed 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

PHIL B33 World Religions: West

3 units

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.

Description: Survey of three western religions - Judaism, Christianity, and Islam - and background religions to these including Egyptian, Persian, and European. Topics include each religions history, sacred scriptures, geographic dispersion, primary theological concepts and spiritual practices, and its role in contemporary society. Emphasis

will be placed on understanding the distinct belief and practice of an individual in each of these religious traditions. Field trips required.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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 religions 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

Physical Education Courses

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

PHED B3ADP Adaptive Physical Education

1 unit

Description: Individualized fitness class for the physically challenged with activities designed to emphasize resistive circuit training combined, when possible, with aerobic training.

Note: UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

Hours: 54 supervised tutoring

Repeat: Repetitions of adaptive physical education are allowed (beyond three) provided the student participates in at least one additional credit course that is not a physical education class and makes progress towards the stated educational goal as documented in the students educational plan and justification is documented by a DSPS counselor in the student's educational plan for the current term. Intended for students with physical challenges.

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

PHED B3ADS Adaptive Physical Education: Swimming

1-3 units

Description: Individualized fitness programs for the physically challenged with emphasis on swimming. Includes group activities designed to involve everyone.

Important:

Note: Repetitions of adaptive physical education are allowed provided the student participates in at least one additional credit course that is not a physical education class and makes progress toward the stated educational goal as documented in the student's educational

plan. UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

Hours: for each 1

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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. Repeat 3 times.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B6BLB Coeducational and Individual Activity: Beginning Ballet

1 unit

Description: Co-educational beginning ballet course. Includes warm-up exercises, technical skills and terminology.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B6FCX Coeducational and Individual Activity: Fitness Center

1 unit

Description: Circuit training with resistance machines (weights), supplemented with a variety of aerobic based equipment. Stresses the development of muscle mass/toned, endurance and cardiovascular fitness. Not recommended for competitive weight lifters.

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

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

PHED B6JD Coeducational and Individual Activity: Jazz Dance (same as 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

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

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

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B6V Coeducational and Individual Activity: Beginning Volleyball

1 unit

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

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

PHED B6Y Coeducational and Individual Activity: Yoga

1 unit

Description: An introduction to basic yoga concepts such as poses, postures, breathing and meditation techniques. Also covers dance stretching techniques to increase flexibility.

Hours: 54 laboratory

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

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

Important: Must meet athletic code eligibility requirements. Field trips may be required.

Recommended: PHED B45.

Hours: 180 by arrangement (usually 2 hours per day)

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B11 Intercollegiate Competition for Men: Basketball

2 units fall semester, 1 unit spring semester

Important: Student must meet athletic code eligibility requirements.

Description: Intercollegiate competition Men's Basketball. Field trips required.

Hours: 54 laboratory for each 1

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B12 Intercollegiate Competition for Men: Track and Field

2 units

Important: Student must meet athletic code eligibility requirements.

Description: Intercollegiate competition for men in Track and Field. Field trips required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B13 Intercollegiate Competition for Men: Tennis

2 units

Important: Must meet athletic code eligibility requirements.

Note: Field trips may be required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B14 Intercollegiate Competition for Men: Baseball

2 units

Important: Must meet athletic code eligibility requirements.

Description: Intercollegiate competition for Men's Baseball. Field trips required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B16 Intercollegiate Competition for Men: Golf

2 units

Important: Must meet athletic code eligibility requirements.

Note: May be substituted for physical education requirement for graduation. Field trips may be required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B17 Intercollegiate Competition for Men: Cross Country

2 units

Important: Must meet athletic code eligibility requirements.

Description: Intercollegiate competition for men in Cross Country. Field trips required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B20 Intercollegiate Competition for Men: Wrestling

2 units

Important: Must meet athletic code eligibility requirements.

Description: Intercollegiate competition for men's wrestling team. Field trips may be required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B22 Intercollegiate Competition for Women: Tennis

2 units

Important: Must meet athletic code eligibility requirements.

Note: May be substituted for physical education requirement for graduation. Field trips may be required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B23 Intercollegiate Competition for Women: Soccer

2 units

Important: Must meet athletic code eligibility requirements.

Description: Intercollegiate soccer for women. Field trips may be required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B24 Intercollegiate Competition for Women: Golf

2 units

Important: Must meet athletic code eligibility code requirements. May be substituted for physical education requirement for graduation. Field trips may be required.

Hours: 180 laboratory

Repeat: 3

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

PHED B25 Intercollegiate Competition for Women: Volleyball

2 units

Important: Must meet athletic code eligibility requirements.

Description: Intercollegiate competition for Women's Volleyball. Travel is required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B26 Intercollegiate Competition for Women: Track and Field

2 units

Important: Must meet athletic code eligibility requirements.

Description: Intercollegiate competition for women in track and field. Travel is required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B27 Intercollegiate Competition for Women: Cross Country

2 units

Important: Must meet athletic code eligibility requirements.

Description: Intercollegiate competition for women in cross country.

Note: Field trips may be required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B28 Intercollegiate Competition for Women: Basketball

1-2 units

Important: Must meet athletic code eligibility requirements.

Description: Intercollegiate basketball competition for women. Specialized training in fundamental skills and team tactics of competitive basketball.

Note: Field trips may be required.

Hours: 90 per unit

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B29 Intercollegiate Competition for Women:

Softball

2 units

Important: Must meet athletic code eligibility requirements.

Description: Intercollegiate competition for Women's Softball. Field trips may be required.

Hours: 180

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B31 First Aid

1 unit

Description: Administering first aid in emergency and accident situations. Includes wounds and their care, shock, CPR, injuries, burns, effects of heat and cold and the transportation of the injured. Upon successful completion each student will qualify for an American Red Cross Standard First Aid Card.

Hours: 18 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B32 Shape Up

1-3 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, socialization and individual differences in human behavior.

Note: UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

Hours: 6 lecture, 30 participation for each 1 unit

Repeat: 3

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

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

PHED B36 First Aid and CPR

3 units

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, CPR and AED certification(s) will be granted upon successful completion of requirements.

Hours: 54

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHED B39A Prevention and Care of Athletic Injuries

3 units

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 B34 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 B40 Introduction to Physical Education

3 units

Recommended: Reading - one level prior to transfer.

Description: Exploring employment opportunities in the field of physical education, history and teaching of physical education and the contribution made to the mental, social, and physical well-being of society. Recommended for students pursuing a major or minor in Physical Education or Recreation.

Hours: 54 lecture

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: CSU and private colleges

PHED B42 Introduction to Kinesiology

3 units

Description: This course is an introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the subdisciplines 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: 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 conditioning, drill technique, strength conditioning, speed development and game play. Students who repeat this course will improve skills and fitness through further instruction and practice.

Repeat: 3

CCS: Not-applicable credit course

Transferable: Not degree applicable. Not transferrable.

Physical Science Courses

PHSC B12 Physical Science

4 units

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: Liberal Arts/Science

Transferable: UC, CSU and private colleges

Physics Courses

PHYS B2A General Physics-Mechanics and Heat

4 units

Prerequisites: MATH BD/MATH B70, B1a (may be taken concurrently).

Recommended: Reading - one level prior to transfer.

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: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHYS B2B General Physics-Sound, Light, Electricity, Magnetism, Modern Physics

4 units

Prerequisites: MATH B1B/MATH BC and either PHYS B2a or high school physics with a 'C' or better.

Description: The properties of waves, sound, light, electricity, magnetism, atomic and nuclear physics. Emphasizes understanding laws, principles and theories. Required for most science, pre-medical, most other pre-professional and technical majors.

Hours: 54 lecture, 54 laboratory

CCS: Liberal Arts/Science

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: 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: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHYS B4B Heat, Electricity, and Magnetism

4 units

Prerequisites: PHYS B4A and MATH B6c with grades of 'C' or better. MATH B6c may be taken concurrently.

Description: Second in a three semester calculus-based physics sequence required of physics, engineering, and other majors requiring a thorough physics background. Includes thermodynamics, electric-

ity, magnetism, and electromagnetic oscillations and radiation. Emphasizes principles, laws and problem-solving.

Hours: 54 lecture, 54 laboratory

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PHYS B4c Optics and Modern Physics

4 units

Prerequisites: PHYS B4b with a grade of 'C' or better.

Recommended: Concurrent enrollment in MATH B6d.

Description: Third in a three-semester calculus-based sequence required of physics, engineering and other majors requiring a thorough physics background. Includes geometric optics, relativity, quantum physics, quantum mechanics, atomic and molecular physics, solid state physics, and nuclear physics. Emphasizes principles, laws, and problem solving.

Hours: 54 lecture, 54 laboratory

CCS: Liberal Arts/Science

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 - two levels 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: Liberal Arts/Science

Transferable: UC, CSU and private colleges

POLS B2 Comparative Government

3 units

Recommended: ENGL B50/ENSL B50 or 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: Liberal Arts/Science

Transferable: UC, CSU and private colleges

POLS B3 International Politics

3 units

Recommended: ENGL B50/ENSL B50 or 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: Liberal Arts/Science

Transferable: UC, CSU and private colleges

POLS B5 Current Issues in American Government

1-2 units

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 for each 1 unit

CCS: Liberal Arts/Science

Transferable: UC, 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: Liberal Arts/Science

Transferable: CSU and private colleges

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

Psychology Courses

PSYC B1A General Psychology

3 units

Prerequisites: None.

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

Transferable: UC, CSU and private colleges

PSYC B1B Biological Psychology

3 units

Prerequisites: PSYC B1a with a grade of 'C' or better. Reading - one level prior to transfer. 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: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PSYC B2 Interpersonal and Group Process Skills

3 units

Recommended: PSYC B1a. 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

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

PSYC B5 Elementary Statistics for the Behavioral and Social Sciences

5 units

Prerequisites: MATH BD/MATH B70 with a grade of 'C' or better.

Completion of or concurrent enrollment in an introductory course: PSYC B1a, SOCI B1, ANTH B1, ECON B1, or POLS B1.

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 had taken and successfully completed the equivalent course, BEHS B5.

Hours: 90 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PSYC B6 Research Methods for the Behavioral and Social Sciences

4 units

Prerequisites: PSYC B1A and PSYC B5

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

Transferable: UC, CSU and private colleges

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. Not open to students who have taken the equivalent course, SOCI B20.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

PSYC B21 Special Projects

1 unit

Recommended: PSYC B1a or PSYC B5 with a minimum grade of 'B', and evaluation by instructor.

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.

Note: Enrollment limitations for students who have successfully completed PSYC B21a, 21b, 21c, and 21d.

Hours: 54 laboratory

Repeat: none

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

PSYC B30 Human Sexuality

3 units

Recommended: PSYC B1a. Reading - one level prior to transfer.

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

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

PSYC B40 Introduction to Lifespan Psychology

3 units

Recommended: PSYC B1a with a grade of 'C' or higher. 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

Transferable: UC, CSU and private colleges

Registered Nursing Courses

NURS B2LV Clinical Lab Experience

6 units

Prerequisites: Appropriate standing in the VN Program.

Hours: 324 supervised tutoring

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

NURS B3LV Clinical Laboratory Experience

6 units

Prerequisites: Appropriate standing in the VN Program.

Hours: 324 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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.

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. Admission to the Associate Degree Nursing Program and appropriate standing in the Nursing Program are required.

Hours: 54 lecture

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.

Hours: 45 lecture, 108 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

NURS B24 Obstetrics - Maternity Nursing

3 units

Prerequisites: Admission and appropriate standing in the Associate Degree Nursing Program.

Description: 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. Admission and appropriate standing in the Associate Degree Nursing Program are required.

Hours: 27 lecture, 81 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

NURS B25 Mental Health Psychiatric Nursing

3.5 units

Prerequisites: Admission to the Associate Degree Nursing Program and appropriate standing in the Nursing Program.

Description: This Level 2 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. Admission to the Associate

Degree Nursing Program and appropriate standing in the Nursing Program are required.

Hours: 36 lecture, 81 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

NURS B26 Medical Surgical Nursing 3

5.5 units

Prerequisites: Appropriate standing in the Associate Degree Nursing Program or evaluation of skills and knowledge by the Program Director.

Description: 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 clinical 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.

Hours: 45 lecture, 162 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

NURS B27 Pediatric Nursing

3.5 units

Prerequisites: Admission to the Associate Degree Nursing Program and appropriate standing in the Nursing Program.

Description: 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. Admission to the Associate Degree Nursing Program and appropriate standing in the Nursing Program are required.

Hours: 27 lecture, 108 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

NURS B28 Medical Surgical Nursing 4

7 units

Prerequisites: Appropriate standing in the Associate Degree Nursing Program or evaluation of skills and knowledge by the Program Director.

Description: 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.

Hours: 54 lecture, 216 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

NURS B29 Gerontology - Community Nursing

2 units

Prerequisites: Appropriate standing in the Associate Degree Nursing Program or evaluation of skills and knowledge by the Program Director.

Description: 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.

Hours: 18 lecture, 54 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

NURS B31 Basic Pharmacology

2 units

Prerequisites: Enrollment in first semester of ADN/VN program or evaluation by program director for skills and knowledge, concurrent enrollment in NURS B1L/B1Lv.

Hours: 36 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

NURS B33 Advanced Pharmacology

2 units

Prerequisites: Appropriate standing in the RN 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 transferrable.

NURS B50 Advanced Pharmacology

1 unit

Prerequisites: Appropriate standing in the VN Program and NURS B31ab with a C or better.

Hours: 18 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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 pursuing 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. May be repeated 2 times.

Hours: 27 lecture, 27 laboratory

Repeat: none

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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

Repeat: none

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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 transferrable.

NURS B201B 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 2 course builds upon content from level 1 curriculum and provides instructional guidance to assist students in refining 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 transferrable.

NURS B201C Learning Lab

1 unit

Prerequisites: Enrollment in 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 3 course builds upon content from level 2 curriculum and provides instructional guidance 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. Formerly NURS B201L.

Hours: 54 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

NURS B201D Learning Lab

1 unit

Prerequisites: Enrollment in 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 4 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. Multimedia and computer assisted instructional materials which support the semester learning objectives are available.

Hours: 54 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

Radiologic Technology Courses

RADT B1A Introduction to Radiologic Technology

2 units

Prerequisites: Enrollment into the Radiologic Technology Program and MATH BD/MATH 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.

Hours: 36 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

RADT B1B Patient Care

2 units

Prerequisites: MEDS B52, 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, B3a, and B4b (courses equivalent to completion of the first fall 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.

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.

Description: Orientation to clinical education including introduction to patient transportation techniques, image processing, patient registration and file room, equipment orientation, general patient care and safety training. Observation and introduction to basic radiographic procedures stressing radiation safety and protection.

Hours: 94 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

RADT B4B Clinical Education 1

4 units

Prerequisites: RADT B4A

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.

Hours: 256 laboratory

CCS: Occupational Education

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.

Hours: 18 lecture, 238 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

RADT B7 Clinical Education 3

6.5 units

Prerequisites: Completion of the first spring semester of the Radiologic Technology Program.

Description: Supervised clinical experiences are 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 film quality are analyzed on a case-by-case basis. Extension of radiographic procedures demonstrated in RADT B2a, B2b.

Hours: 18 lecture, 382 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

RADT B9A Sectional Anatomy for Medical Imaging

3 units

Prerequisites: Current enrollment in the Radiologic Technology Program or evaluation of students imaging skills.

Description: Sectional anatomy of the head, neck, 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: Completion of second summer of Radiologic Technology Program.

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. Correlated with RADT B2c.

Hours: 18 lecture, 366 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

RADT B11 Radiographic Pathology

2 units

Prerequisites: Completion of second fall semester of Radiologic Technology Program.

Description: Pathology and medical terminology pertinent to diagnostic medical imaging. Nature, causes, manifestations and treatment of disease. Imaging procedures utilized when making diagnosis.

Hours: 36 lecture

CCS: Occupational Education

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 and successful completion of second fall semester of Radiologic Technology Program.

Description: Supervised clinical experiences are provided to perfect skills in advanced radiographic procedures. Designed to prepare the student for program completion and certification examinations.

Hours: 384 laboratory

Repeat: 2

CCS: Occupational Education

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

Small Business Courses

SMBS B73 Establishing an Advertising Budget

0.5 unit

Recommended: Reading - one level prior to transfer.

Hours: 9 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

SOCI B20 Social Psychology

3 units

Recommended: SOCI B1 or PSYC B1a with grades 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. Not open to students who have taken the equivalent course, PSYC B20.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

SOCI B21 Special Projects

1 unit

Recommended: Completion of at least one introduction level sociology course or higher, and evaluation by instructor. 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.

Note: Enrollment limitations for students who have successfully completed SOCI B21a, 21b, 21c, and 21d.

Hours: 18 lecture

Repeat: 3

CCS: Liberal Arts/Science.

SOCI 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

Transferable: UC, CSU and private colleges

SOCI 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

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

SOCI 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

Transferable: UC, CSU and private colleges

Soil Science Courses

SOIL B1 Introduction to Soil Science

3 units

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer. MATH BA/MATH B60 or B200a.

Note: Core agriculture course; required of all agriculture majors.

Description: Problems pertaining to the soil which are important in the profitable production of plants, including physical properties of soils, fertilizers, crop rotation, erosion and salt control, cultivation problems and irrigation.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education

Transferable: UC, CSU and private colleges

Spanish Courses

SPAN B1AB Elementary Spanish

5 units

Recommended: Reading- one level prior to transfer. SPAN B1a or equivalent taken prior to SPAN B1b.

Description: Introduction to the Spanish language and culture by means of a program that involves video, audio, and print media into an integrated method of planned immersion. Students will develop all language skills that include reading, writing, listening comprehension and oral production.

Hours: 90 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

SPAN B2AB Elementary Spanish

5 units

Recommended: Knowledge equivalent to SPAN B1ab with a grade of 'C' or better.

Description: Continues using the planned immersion approach begun in SPAN B1ab. Explores new tenses and moods of the language and continues vocabulary enhancement, development of oral production and writing, integrating aspects of the Spanish culture.

Hours: 90 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

SPAN B3 Intermediate Spanish

4 units

Prerequisite: SPAN B2

Recommended: Knowledge equivalent to SPAN B2ab with a minimum grade of 'C' or better. Students in this course should have studied the conjugations of the present indicative and the present subjunctive, the preterit and the imperfect, the direct and indirect object pronouns in addition to basic Spanish vocabulary and expressions.

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.

Hours: 72 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

SPAN B4 Intermediate Spanish

4 units

Recommendation: SPAN B3 with a grade of 'C' or higher or knowledge equivalent to the completion of SPAN B3.

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.

Hours: 72 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

SPAN B10 Spanish for Heritage Speakers

4 units

Recommended: Native speaker or equivalent.

Description: 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. Course taught entirely in Spanish.

Hours: 72 lecture

CCS: Liberal Arts/Science

Transferable: UC, CSU and private colleges

SPAN B35 Spanish for Heritage Speakers I

4 units

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. This course is taught entirely in Spanish.

Hours: 72 lecture

Transferable: UC, CSU and private colleges

SPAN B36 Spanish for Heritage Speakers II

4 units

Description: This course is a continuation of Spanish B35 for students whose native language is Spanish but need to improve their academic skills in 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. This course is taught entirely in Spanish.

Hours: 72 lecture

Transferable: UC, CSU and private colleges

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

Repeat: 3

CCS: Liberal Arts/Science

Transferable: 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. Meets the needs of superior students whose background and interests indicate that they could profit from indi-

vidual 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

Repeat: 3

CCS: 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 planning 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 of studies, i.e. Special Studies/German. Field trips may be required.

Hours: 54 hours for 1 unit

Repeat: 1

CCS: 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. The student is required to meet periodically with faculty advisor and/or department chair to review process in the study program. Field trips may be required.

Hours: 18 hours for 1 unit

Repeat: 3

CCS: Liberal Arts/Science

Transferable: Not degree applicable. Not transferrable.

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

Repeat: 3

CCS: Liberal Arts/Science

Transferable: Not degree applicable. Not transferrable.

SPST B210 Independent Reading Program

1-2 units

Recommended: Reading - one level prior to transfer.

Description: Independent reading of books in the social sciences, physical sciences and humanities under Library staff supervision.

Hours: 54 hours for each 1 unit

Repeat: 1

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

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 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 Bakersfield College.

Hours: 27 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

STDV B3 Career, Life, and Educational Planning

3 units

Recommended: Reading - one level prior to transfer.

Description: Assists students with self-exploration, career transitions and career-life planning in order to achieve success in a diverse society. Critical thinking skills will be utilized through a systematic approach to career development by examining values, interests, skills, life roles, personality type, personal self-management, decision making and goal-setting throughout the life span. Students will develop educational options, possible career pathways and majors, and a student educational plan. Job search strategies and resume writing will be introduced. Satisfies the 0.5 unit educational planning requirement for graduation from Bakersfield College.

Hours: 54 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

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: 18 lecture

Repeat: 1

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

STDV B6 Tools for College Survival

2 units

Recommended: Reading - one level prior to transfer.

Description: Integrates personal growth, learning techniques academic and career success, problem solving, critical, and creative thinking. Course focuses on the following topics: self-evaluation and assessment, goal setting, career decision making, educational planning, time and financial management techniques, instructor-student relationships, cultural diversity, stress management, campus resources, learning styles and strategies including lecture note-taking, test taking, memory and concentration. Satisfies 0.5 unit educational

planning requirement for graduation from Bakersfield College. Elective credit only.

Hours: 36 lecture

CCS: Liberal Arts/Science

Transferable: CSU and private colleges

Technical Mathematics Courses

TECM B52 Introduction to Technical Mathematics

3 units

Description: Elementary course in mathematics intended primarily for technology, majors covering arithmetic processes, ratio, proportion, elementary algebra, geometric forms and construction, and elementary trigonometry.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

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

Transferable: UC, CSU and private colleges

THEA B2A Elements of Acting

3 units

Recommended: Reading - one level prior to transfer.

Prerequisites: THEA B1 or By audition.

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

Transferable: UC, CSU and private colleges

THEA B2B Elements of Acting

3 units

Recommended: Reading - one level prior to transfer.

Prerequisites: THEA B1 and THEA B2A or by audition.

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

Transferable: UC, CSU and private colleges

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

THEA B20 Theatre Appreciation

3 units

Recommended: Reading - one level prior to transfer. 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

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

THEA B28 Technical Theatre Laboratory

1-3 units

Recommended: Reading - one level prior to transfer.

Description: Participation in set construction, lighting, make-up, costume, properties, or any other technical area of theatrical productions.

Hours: 54 hours for 1 unit

Repeat: 3

CCS: Liberal Arts/Science

Transferable: 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

Transferable: UC, CSU and private colleges

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

Transferable: UC, CSU and private colleges

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.

Hours: 54 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

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: Concurrent enrollment in 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. The Board of Vocational Nursing and Psychiatric Technicians requires this course to be offered as a corequisite.

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 mater-

nal/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 B31A Basic Pharmacology

1.5 units

Prerequisites: Entrance in the first semester of the ADN or VN Program or evaluation by program director or instructor for skills and knowledge.

Description: Provides a foundation for pharmacological nursing by assisting the student to acquire, comprehend, and apply essential knowledge related to drug therapy. Legal and ethical issues, nursing responsibilities, and client participation associated with medication administration are discussed. A nursing process approach is utilized throughout every aspect of drug study and administration.

Note: Not open to students with credit in NURS B31A, NURS B31AB, or VNRS B31AB.

Hours: 27 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

VNRS B31AB Basic Pharmacology

2 units

Prerequisites: Admission to the Vocational Nursing Program.

Description: Provides a foundation for basic pharmacological nursing using concepts of growth and development throughout the life span, pharmacology and drug administration as a framework for presenting the problems and special concerns of the client using medications. Legal and ethical issues, nursing responsibilities and client participation associated with medication administration are discussed. A nursing process approach is utilized throughout every aspect of drug study and drug administration.

Hours: 36 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

VNRS B31B Medication Calculations

0.5 unit

Prerequisites: Entrance in the first semester of the ADN or VN Program or evaluation by program director or instructor for skills and knowledge.

Description: Provides a foundation for pharmacological calculations using the nursing process. Legal and ethical issues and nursing responsibilities associated with medication calculations are discussed.

Note: Not open to students with credit in NURS B31B, NURS B31AB, or VNRS B31AB.

Hours: 9 lecture

CCS: Occupational Education

Transferable: CSU and private colleges

VNRS B50a AdvanceA Pharmacology, Part A

0.5 unit

Prerequisites: Appropriate standing in the nursing program and VNRS B31ab with a grade of 'C' or better.

Description: Designed to prepare the vocational nurse to function safely when administering medication to a group of clients. Student will be administering medications to more complex clients in the laboratory setting. Expounds on principles learned in VNRS B31ab.

Hours: 9 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B50B Advanced Pharmacology, Part B

0.5 unit

Prerequisites: Appropriate standing in the VN Program and VNRS B31AB.

Description: Designed to prepare the vocational nurse to function safely when administering medications to a group 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 transferrable.

VNRS B54 Cardiovascular Nursing

2 units

Prerequisites: Appropriate standing in VN Program.

Hours: 36 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B56 Gastrointestinal Nursing and Nutrition

3 units

Prerequisites: Appropriate standing in the VN Program.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B57 Respiratory Nursing

2 units

Prerequisites: Appropriate standing in the VN Program.

Hours: 36 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B58 Endocrine Nursing

1 unit

Prerequisites: Appropriate standing in the VN Program.

Hours: 18 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B60 Musculoskeletal Nursing

2 units

Prerequisites: Appropriate standing in the VN Program.

Hours: 36 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B61 Genitourinary Nursing

2 units

Prerequisites: Appropriate standing in the VN Program.

Hours: 36 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B62 Neurosensory Nursing

2 units

Prerequisites: Appropriate standing in the VN Program.

Hours: 36 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B63 Integumentary Nursing

1 unit

Prerequisites: Appropriate standing in the VN Program.

Hours: 18 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B67 Principles of Pharmacology

2 unit

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.

Transferable: Associate Degree only. Not transferrable.

VNRS B68 Basic Medical Surgical Nursing

3 unit

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, intergumentary 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

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B69 Foundations for Vocational Nursing Practice

3 unit

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

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B69L Foundations for Vocational Nursing Practice Lab

6 unit

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.

Hours: 324 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B75 Medical Surgical Nursing 1

3.5 units

Prerequisites: Appropriate standing in VN Program.

Corequisite: VNRS B1LV. The Board of Vocational Nursing and Psychiatric Technicians requires this course to be offered as a corequisite.

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 VNRS B1LV.

Hours: 63 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B85 Medical Surgical Nursing II

2.5 units

Prerequisites: Appropriate standing in the nursing program and concurrent enrollment in VNRS B85LV.

Recommended: Reading - one level prior to transfer.

Description: Provides a study of etiology, pathophysiology, assessment, planning and evaluation of adult clients with cardiovascular, peripheral vascular and respiratory disorders. Knowledge imparted builds on nursing theory from the previous medical surgical nursing course (VNRS B75). 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 VNRS B85LV.

Note: Not open to students who have taken VNRS B80.

Hours: 45 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B85LV Medical Surgical Nursing 2 – Clinical Laboratory

1.5 units

Prerequisites: Appropriate standing in the VN Program and concurrent enrollment in 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 transferrable.

VNRS B86 Medical Surgical Nursing III

4 units

Prerequisites: Appropriate standing in the VN Program and concurrent enrollment in 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 VNRS B86LV.

Hours: 72 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

VNRS B86LV Medical Surgical Nursing 3 – Clinical Laboratory

3 units

Prerequisites: Appropriate standing in the VN Program and concurrent enrollment in 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 transferrable.

VNRS B87LV Maternal Newborn - Clinical Laboratory

1.5 units

Prerequisites: Appropriate standing in the Vocational Nursing Program.

Corequisite: VNRS B7. The Board of Vocational Nursing and Psychiatric Technicians requires this course to be offered as a corequisite.

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 transferrable.

VNRS B95 Medical Surgical Nursing 4

4 units

Prerequisites: Appropriate standing in the VN Program and concurrent enrollment in 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 transferrable.

VNRS B95LV Medical Surgical Nursing 4 – Clinical Laboratory

2.5 units

Prerequisites: Appropriate standing in VN Program and concurrent enrollment in 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 transferrable.

VNRS B96 Medical Surgical Nursing 5

2 units

Prerequisites: Appropriate standing in VN Program and concurrent enrollment in 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 transferrable.

VNRS B96LV Medical Surgical Nursing 5 – Clinical Laboratory

2 units

Prerequisites: Appropriate standing in the Vocational Nursing Program and 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 in 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 transferrable.

VNRS B97LV Pediatrics – Clinical Laboratory

1.5 units

Prerequisites: Appropriate standing in VN Program and concurrent enrollment in VNRS B6.

Description: Laboratory course which is correlated with the corresponding pediatric course in the Vocational Nursing Program. Incorporated is the nursing process which utilizes the skills of assessment, planning, intervention and evaluation providing a system approach to nursing practice.

Note: Not open to students who have taken the equivalent course, VNRS B91LV.

Hours: 81 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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 transferrable.

WTRT 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 transferrable.

WTRT 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 transferrable.

WTRT B61 Advanced Water Treatment

3 units

Prerequisites: Completion of Basic H2O treatment or comparable course. Field trips required.

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.

Hours: 54 lecture

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WTRT 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 transferrable.

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: \$25.00 for project materials.

Hours: 27 lecture, 27 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

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: \$25.00 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.

Hours: 27 lecture, 27 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B53B 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.

Hours: 27 lecture, 27 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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 transferrable.

WELD B54B Template Development and Layout for Welders

3 units

Recommended: WELD B54a, 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.

Note: May be repeated once.

Hours: 54 lecture

Repeat: 1

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B55A Structural Plate Certification

2 units

Recommended: WELD B53ab with a grade of 'C' or better, or three years work experience as a welder. Reading - one level prior to transfer.

Description: Safety, introduction to welding codes, welding discontinuities and practical welding. Experience on plate with SMAW (shielded metal arc welding or FCAW (Flux Core Arc Welding), based on the American Welding Society DI.1 structural code. Weld 3/8 plate in 1G, 2G, 3G, 4G fixed position for certification.

Hours: 27 lecture, 27 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B55B Structural Plate Certification

2 units

Recommended: WELD B53b with a grade of 'C' or better, or three years work experience as a welder. Reading - one level prior to transfer.

Description: Safety, introduction to welding codes, welding discontinuities and practical welding. Experience on plate with SMAW (shielded metal arc welding) or FCAW (flux core arc welding), based on the American Welding Society DI.1 structural code. Weld 1 plate in 1G, 2G, 3G, & 4G fixed position for certification.

Hours: 27 lecture, 27 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B55C ASME Pipe Certification

2 units

Prerequisites: WELD B55a or WELD B55b with a grade of C. or evaluation by instructor of students 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: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B55CD ASME Pipe Certification

3 units

Prerequisites: WELD B55ab with a grade of 'C' or better, or evaluation of students 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.

Material Fee: \$50.00 for project materials (steel, welding rods, welding resume for industry AWS certification).

Hours: 54 lecture, 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B55D ASME Pipe Certification

2 units

Prerequisites: WELD B55a or WELD B55b with a grade of 'C', or evaluation by instructor of students welding skills and knowledge. 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: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B55E API/Related Certification Testing

2 units

Prerequisites: WELD B55c-B55d with a grade of 'C' or evaluation by instructor of students skills and knowledge equivalent to WELD B55cd.

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.

Hours: 27 lecture, 27 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B55EF API/Related Certification Testing

3 units

Prerequisites: WELD B55c or B55d or WELD B55cd with a grades of 'C' or better, evaluation of students skills and knowledge equivalent to WELD B55cd.

Recommended: Reading - one level prior to transfer.

Description: Safety, and welding pipe in the 5G rolled, 5G fixed, and 6G fixed positions. The API 1104 pipe welding code will also be covered. Course prepares students for certification testing.

Materials Fee: \$50 for project materials, (steel rods, welding resume for industry AWS certification).

Hours: 54 lecture, 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B55F API/Related Certification Testing

2 units

Prerequisites: WELD B55c-B55d with a grade of 'C'.

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.

Hours: 27 lecture, 27 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B65A Welded Steel Structures

1.5 units

Recommended: Reading - one level prior to transfer. Previous class or experience in oxy-fuel cutting, shielded metal arc welding, and gas metal arc welding.

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. Special Materials Fee per section for instructional material \$25.00

Hours: 18 lecture, 36 laboratory

Repeat: 1

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B65AB Welded Steel Structures

3 units

Recommended: Reading - one level prior to transfer. Previous class or experience in oxy-fuel cutting, shielded metal arc welding, and gas metal arc welding is also recommended.

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.

Hours: 54 lecture, 54 laboratory

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B65Bb Welded Steel Structures

1.5 units

Recommended: Reading - one level prior to transfer. Previous class or experience in oxy-fuel cutting, shielded metal arc welding, and gas metal arc welding.

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. Special Materials Fee per section for instructional material \$25.00

Hours: 18 lecture, 36 laboratory

Repeat: 1

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

WELD B74A Intro to Gas Metal Arc Welding and Flux Core Arc Welding

2 units

Recommended: WELD B1B 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 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.

Note: Not open to students who have taken WELD B74AB.

Materials Fee: \$25.00 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 transferrable.

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: \$25.00 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 transferrable.

WELD B81 Introduction to Welding and Cutting

2 units

Description: Properties and characteristics of metals. Safety, theory, and practical experience in oxy-acetylene cutting, plasma arc cutting, gas metal arc welding, flux cored arc welding, shielded metal arc welding, and use of shear and brake.

Hours: 27 lecture, 27 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

WELD B90 General Welding

6 units

Description: Entry-level welding skill development in modern welding and cutting processes, theory and practice.

Hours: 48 lecture, 144 laboratory

CCS: Occupational Education

Transferable: Not degree applicable. Not transferrable.

Woodworking Courses

WOOD B1 Introduction to Woodworking Technologies

3 units

Recommended: 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, lamination 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: \$40.00 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: \$40 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

Recommended: 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: \$40.00 for lumber, hardware (if applicable), and finishing products, etc.

Hours: 27 lecture, 81 laboratory

CCS: Occupational Education

Transferable: CSU and private colleges

WOOD B65A 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:** \$40.00 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 transferrable.

WOOD B65B Advanced Cabinetmaking

3 units

Prerequisites: WOOD B65a 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 mill-work 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.

Material Fee: \$40.00 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 transferrable.

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 five (5) 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 Cooperative Work Experience Education

1-8 units

Prerequisites: Declared major or occupational goal and evaluation 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: Nonstandard, 75-600

Repeat: 3

CCS: Occupational Education

Transferable: CSU and private colleges

WEXP B248 Cooperative Work Experience Education - Paid

1-8 units

Prerequisites: Declared major or occupational goal and evaluation by Work Experience department of students qualifications and objectives. Work Experience orientation is mandatory. For information contact the Work Experience Office.

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: Nonstandard, 75-300

Repeat: 3

CCS: Occupational Education

Transferable: CSU and private colleges

WEXP B248 Cooperative Work Experience Education - Unpaid

1-8 units

Prerequisites: Declared major or occupational goal and evaluation by Work Experience department of student's qualifications and ob-

jectives. Unpaid status course. WEXP orientation is mandatory. For information contact the Work Experience Office.

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: Nonstandard, 60-240

Repeat: 3

CCS: Occupational Education

Transferable: CSU and private colleges

WEXP B249 Cooperative Work Experience Education

1-4 units

Prerequisites: Declared major or occupational goal, concurrent enrollment in seven or more units (including CWEE units, except summer school) and evaluation 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.

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 five (5) 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.

Hours: Nonstandard

Repeat: 3

CCS: Occupational Education

Transferable: CSU and private colleges

WEXP B249 Cooperative Work Experience Education - Paid

1-4 units

Prerequisites: Declared major or occupational goal, concurrent enrollment in seven or more units (including CWEE units, except summer school) and evaluation by Work Experience department of student's qualifications and objectives. Paid status course. WEXP orientation is mandatory. For information contact the Work Experience Office.

Description: College credit for learning experiences obtained on the job in accordance with a training plan developed cooperatively between employer, college and student.

Hours: Nonstandard, 75-300

Repeat: 3

CCS: Occupational Education

Transferable: CSU and private colleges

WEXP B249 Cooperative Work Experience Education - Unpaid

1-4 units

Prerequisites: Declared major or occupational goal, concurrent enrollment in seven or more units (including CWEE units, except summer school) and evaluation by Work Experience department of student's qualifications and objectives. Unpaid status course. WEXP orientation is mandatory. For information contact the Work Experience Office.

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: Nonstandard, 60-240

Repeat: 3

CCS: Occupational Education

Transferable: CSU and private colleges

WEXP B250 General Work Experience Education

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 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: Nonstandard

CCS: Occupational Education

Transferable: Associate Degree only. Not transferrable.

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. Paid status course. WEXP orientation is mandatory. For information contact the Work Experience Office.

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: Nonstandard, 75-300

CCS: Occupational Education

Transferable: CSU and private colleges

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. Unpaid status course. WEXP orientation is mandatory. For information contact the Work Experience Office.

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: Nonstandard, 60-240

CCS: Occupational Education

Transferable: CSU and private colleges