Pathways to Success

CRAIG HAYWARD
STUDENT SUCCESS RETREAT, PART TWO
FIRESIDE ROOM
BAKERSFIELD COLLEGE
8/16/17
2017 Major Confidence Survey

Survey of students enrolled in Summer 2017
- Faculty administered survey to 701 students across 31 class sections
- Students represent a cross-section of all students (not just first-time students)
  - Students were asked “How confident are you in your major?”

One out of four students were not confident in their choice of major

One in ten felt they needed help and would benefit from meeting with a counselor

One in three students said that they wanted to change their major
One in three students said that they wanted to change their Ed Goal.

When students changed their education goal, they tend to “shift up”.

21% changed from a non-transfer goal to a transfer goal, while only 7% shifted from a transfer goal to a non-transfer goal.
When do we ask students to pick a major or program of study?

- When students apply to Bakersfield College, the second thing they are asked to do is to indicate their "Intended major or program of study".

- How many programs do you think are in the drop-down list that students must choose from?
First Screen of Majors

- AA Accounting with BC General Education Pattern
- AA Accounting with CSU General Education Pattern (CSUGE)
- AA Accounting with UC General Education Pattern (IGETC)
- AA Administrative Office Assistant with BC General Education Pattern
- AA Administrative Office Assistant with CSU General Education Pattern (CSUGE)
- AS-T Administration of Justice with UC General Education Pattern (IGETC)
- AA Agriculture Business Management with BC General Education Pattern
- AA Agriculture Business Management with CSU General Education Pattern (CSUGE)
- AA Agriculture Business Management with UC General Education Pattern (IGETC)
- AS Agriculture Business Management with BC General Education Pattern
- AS Agriculture Business Management with CSU General Education Pattern (CSUGE)
- AS Agriculture Business Management with UC General Education Pattern (IGETC)
- Agriculture Business Management Certificate of Achievement
- AA American Sign Language with BC General Education Pattern
- AA American Sign Language with CSU General Education Pattern (CSUGE)
- AA American Sign Language with UC General Education Pattern (IGETC)
- AA Animal Science with BC General Education Pattern
- AA Animal Science with CSU General Education Pattern (CSUGE)
- AA Animal Science with UC General Education Pattern (IGETC)
- AS Animal Science with BC General Education Pattern
- AS Animal Science with CSU General Education Pattern (CSUGE)
- AS Animal Science with UC General Education Pattern (IGETC)
- Animal Science Certificate of Achievement
- AA-T Anthropology with UC General Education Pattern (IGETC)
- AS Architecture Drafting with CSU General Education Pattern (CSUGE)
- AS Architecture Drafting with BC General Education Pattern
Fourth Screen of Majors
### Eighth Screen of Majors

<table>
<thead>
<tr>
<th>Major</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding Certificate of Achievement</td>
<td></td>
</tr>
<tr>
<td>AS Wildland Fire Technology with CSU General Education Pattern (CSUGE)</td>
<td></td>
</tr>
<tr>
<td>AS Wildland Fire Technology with BC General Education Pattern</td>
<td></td>
</tr>
<tr>
<td>AS Wildland Fire Technology with UC General Education Pattern (IGETC)</td>
<td></td>
</tr>
<tr>
<td>Auto CAD Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Automotive HVAC Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Automotive Management Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Basic and Advanced Clean Air Car Course Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Basic Machine Tool Operations-Lathe, Mill Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Blueprint Reading and Layout for Welders Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Child Development Assistant Teacher Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Child Development Associate Teacher Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Computer Numerical Control Programming Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Emergency Medical Tech 1 Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Fire Academy</td>
<td></td>
</tr>
<tr>
<td>Fire Fighter I Academy Certificate of Achievement</td>
<td></td>
</tr>
<tr>
<td>Fire Technology EMT</td>
<td></td>
</tr>
<tr>
<td>Gas Metal Arc/Gas Tungsten Arc/Flux Core Arc Welding Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>General Business Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Human Services Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Nurse Assistant Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Office Assistant Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Principles of Fluoroscopy Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Principles of Venipuncture Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Registered Veterinary Tech Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Shielded Metal Arc Welding Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Welding Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>Wildland Firefighting</td>
<td></td>
</tr>
<tr>
<td>Woodworking/Cabinetmaking Job Skills Certificate</td>
<td></td>
</tr>
<tr>
<td>AS Paramedic Program with CSU General Education Pattern (CSUGE)</td>
<td></td>
</tr>
</tbody>
</table>
Ninth Screen of Majors

- Human Services Job Skills Certificate
- Nurse Assistant Job Skills Certificate
- Office Assistant Job Skills Certificate
- Principles of Fluoroscopy Job Skills Certificate
- Principles of Venipuncture Job Skills Certificate
- Registered Veterinary Tech Job Skills Certificate
- Shielded Metal Arc Welding Job Skills Certificate
- Welding Job Skills Certificate
- Wildland Firefighting
- Woodworking/Cabinetmaking Job Skills Certificate
- AS Paramedic Program with CSU General Education Pattern (CSUGE)
- AS Paramedic Program with UC General Education Pattern (IGETC)
- AS Paramedic Program with BC General Education Pattern
- AS Industrial Technology, Automotive Option with UC General Education Pattern (IGETC)
- CompTIA Certificate of Achievement
- Photography Certificate of Achievement
- Paramedic Program Certificate of Achievement
- Graphic Design Certificate of Achievement
- AS-T Biology with CSU General Education Pattern (CSUGE)
- AS-T Biology with UC General Education Pattern (IGETC)
- AS Plant Science Horticulture Emphasis with UC General Education Pattern (IGETC)
- AS Plant Science Horticulture Emphasis with CSU General Education Pattern (CSUGE)
- AS Plant Science Horticulture Emphasis with BC General Education Pattern
- AA Plant Science Horticulture Emphasis with BC General Education Pattern
- AA Plant Science Horticulture Emphasis with CSU General Education Pattern (CSUGE)
- AA Plant Science Horticulture Emphasis with UC General Education Pattern (IGETC)
- AS-T Agriculture Business with CSU General Education Pattern (CSUGE)
- AS-T Agriculture Business with UC General Education Pattern (IGETC)
- AS-T Animal Science with UC General Education Pattern (IGETC)
- AS-T Animal Science with CSU General Education Pattern (CSUGE)
Answer: Lots and LOTS!

- There are 9 screens of majors and 251 major choices
  - It is not fully alphabetized or completely standard in its format.
  - There are 19 duplicates of ADT degree pathways, for example:
    - AA-T Political Science for Transfer to CSU
    - AA-T Political Science for Transfer to CSU

- Many options are very similar – how many applicants will know the differences among the following six degrees?
  - AA Agriculture Business Management with BC General Education Pattern
  - AA Agriculture Business Management with CSU General Education Pattern (CSUGE)
  - AA Agriculture Business Management with UC General Education Pattern (IGETC)
  - AS Agriculture Business Management with BC General Education Pattern
  - AS Agriculture Business Management with CSU General Education Pattern (CSUGE)
  - AS Agriculture Business Management with UC General Education Pattern (IGETC)
Pathways to the rescue!

- Agriculture, Nutrition and Culinary arts
- Business
- Arts, Humanities, and Design
- Education
- Health Sciences
- Industrial and Transportation Tech
- Public Safety
- Social, Behavioral and Human Services
- STEM
- Personal and Career Exploration
Completion Coaching
Communities
PATHWAY GROUPS
Pathway groups pop quiz

- Which Pathway group is 83% female?
- Which Pathway group is 11% female?
- Which Pathway group has the highest proportion of URM?
- Which Pathway group has the lowest proportion of URM?
Proportion female

<table>
<thead>
<tr>
<th>Field</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITT</td>
<td>0.106</td>
</tr>
<tr>
<td>STEM</td>
<td>0.304</td>
</tr>
<tr>
<td>Public Safety</td>
<td>0.325</td>
</tr>
<tr>
<td>Exploration</td>
<td>0.439</td>
</tr>
<tr>
<td>Business</td>
<td>0.466</td>
</tr>
<tr>
<td>AH&amp;M</td>
<td>0.55</td>
</tr>
<tr>
<td>AN&amp;CA</td>
<td>0.557</td>
</tr>
<tr>
<td>SB&amp;HS</td>
<td>0.624</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>0.73</td>
</tr>
<tr>
<td>Education</td>
<td>0.828</td>
</tr>
</tbody>
</table>
Proportion URM

<table>
<thead>
<tr>
<th>Category</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploration</td>
<td>0.452</td>
</tr>
<tr>
<td>AN&amp;CA</td>
<td>0.668</td>
</tr>
<tr>
<td>STEM</td>
<td>0.708</td>
</tr>
<tr>
<td>AH&amp;M</td>
<td>0.709</td>
</tr>
<tr>
<td>Business</td>
<td>0.729</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>0.734</td>
</tr>
<tr>
<td>Education</td>
<td>0.748</td>
</tr>
<tr>
<td>Public Safety</td>
<td>0.749</td>
</tr>
<tr>
<td>SB&amp;HS</td>
<td>0.782</td>
</tr>
<tr>
<td>ITT</td>
<td>0.819</td>
</tr>
</tbody>
</table>
Have completion coaching communities been effective?

WHAT DO YOU THINK?
What are typical completion coaching community activities?

- Communicate with students
  - Email blasts
  - Phone calls
- Check that enrollments correspond to declared major
- Provide advice regarding appropriate math and English
- Encourage to enroll in more courses and take 15+ units
- Direct to relevant services
- Other?
- Tracking?
Analysis

- Matched 3,318 first-time college students from initial data pull on June 20, 2017 to their current record two months later.
- Compared proportion with 15+ units, proportion enrolled in math, proportion enrolled in English, average unit load.
- Some gains in average unit load and proportion with 15+ units.
- Proportion with 15+ units increased from 14.6% to 15.6%.
- No consistent pattern for English enrollment, ~66.5%.
- Enrollment in math declined somewhat from 55.5% to 54.2%.
- Average unit load increased from 10.4 units to 10.8 units.
Percent enrolled in English by Pathway
Percent enrolled in math

- Exploration: 17.5%
- ITT: 43.2%
- SB&HS: 48.3%
- Education: 52.8%
- AN&CA: 54.4%
- AH&M: 56.1%
- Business: 56.3%
- Public Safety: 57.3%
- Health Sciences: 58.1%
- STEM: 65.0%
Encouraging 15+ units

Average unit load - August 15th

Exploration: 6.4
IT: 9.6
Education: 10.7
AH&M: 11.0
SB&HS: 11.0
Health Sciences: 11.0
Business: 11.2
AN&CA: 11.2
Public Safety: 11.3
STEM: 11.6
Encouraging 15+ units

Change in average unit load – June to August 2017
Why aren’t more students registered for 15+ units?

- Students with fewer than 15 units are TWICE AS LIKELY to be waitlisted.
Should first time student files only include students who are brand new in the fall? Or should we include students who enrolled in the prior summer? What about concurrent/DualE?

What happens if a student is in more than one meta-major?

What to do if a student drops all of their classes?

What if a student is waitlisted in all or most of their classes?