The California Community College Baccalaureate: Overcoming Hurdles

Community College Baccalaureate Association

Sunday, March 20, 2016
Overview of The California Community College Baccalaureate: Overcoming Hurdles

Dr. Stephanie Bulger
Vice Chancellor, Instructional Services

Process for the California Baccalaureate, Role of CCCCO

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Dean, Curriculum and Instruction

Curriculum and Program Design Hurdles: Mesa College

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Professor Health Information Technology

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California’s Biomanufacturing Baccalaureate: MiraCosta College

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Interim Dean, Math and Sciences

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Q&A
Overview of The California Community College Baccalaureate

Presented by:

Dr. Stephanie Bulger
Vice Chancellor, Instructional Services
California Community Colleges
Baccalaureate Degree Pilot Program

Fifteen college districts were selected to pioneer the systemic baccalaureate degree program. The districts are within reach of a vast segment of California’s population, mirror its diverse make-up, and will offer cutting-edge academic programs in many fields.
California Degree Needs

- Since 2000, California has lost slightly more college graduates to other states than it has gained. Highly skilled workers attracted from other countries are not enough to meet the need.

- Public institutions annually award 110,000 bachelor’s degrees and private institutions award 40,000. To meet the projected demand by 2025, California must increase the number of degrees by almost 60,000 per year—about 40% above current levels.

States Currently Authorizing Community College Baccalaureates

SB 850 (Block, 2014): Approvals (All Unanimous)

- Senate Higher Education Committee (4/24/14)
- Senate Appropriations Committee (5/23/14)
- Senate (5/27/14)
- Assembly Higher Education Committee (6/24/14)
- Assembly Appropriations Committee (8/14/14)
- Assembly (8/20/14)
- Senate (8/21/14)
- Governor (9/28/14)
Process for the California Baccalaureate, Role of CCCCCO

Presented by:

Jackie Escajeda, M.A.
Dean, Curriculum and Instruction
Academic Affairs Division
Hurdles

• SB 850 only allowed the state to select 15 pilot colleges
• Funding limitations
• Time constraints
• Collaboration among the Chancellor’s Office, the 15 Pilot Colleges, and the Academic Senate
• Implementation
  – Curriculum
  – Student Support Services
  – Handbook
Unexpected Hurdles

• Accreditation challenges
• One of the original 15 pilot colleges dropped out
• CSU partnership
• GE patterns
• Upper division GEs
# 15 Baccalaureate Degree Pilot Colleges

<table>
<thead>
<tr>
<th>College</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Antelope Valley</td>
<td>Airframe Manufacturing Technology</td>
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<tr>
<td>Bakersfield</td>
<td>Industrial Automation</td>
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<tr>
<td>Cypress</td>
<td>Mortuary Science</td>
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<tr>
<td>Feather River</td>
<td>Equine and Ranch Management</td>
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<td>Foothill</td>
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<td>Mira Costa</td>
<td>Biomanufacturing</td>
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<tr>
<td>Modesto</td>
<td>Respiratory Care</td>
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<tr>
<td>Rio Hondo</td>
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<tr>
<td>San Diego Mesa</td>
<td>Health Information Management</td>
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<tr>
<td>Santa Ana</td>
<td>Occupational Studies</td>
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<tr>
<td>Santa Monica</td>
<td>Interaction Design</td>
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<tr>
<td>Shasta</td>
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<td>Skyline</td>
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<td>Solano</td>
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<td>West Los Angeles</td>
<td>Dental Hygiene</td>
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</table>
San Diego Mesa College
Health Information Management
Baccalaureate Program

Chicago, IL
Sunday, March 20

Presented by:
Vice President of Instruction, Tim McGrath
Professor, Connie Renda
Overcoming the Hurdles

* Process to determine which program of study to offer
* Campus/District/Industry support
* Development/start-up costs
* Curriculum development
* State and Accreditation approvals
Development/Start-Up Costs

- Proposal should include costs to develop the program
- Identify number of hours needed for development
- Secure funding in advance
- Consider return on investment
- Identify how many students can be served each year
- Identify when to start the program
- Consider LMI and employment outlook data
- Identify facilities
- Identify faculty
- Identify library resources
- Identify equipment and supply needs
Overcoming the Hurdles

- Campus/District/Industry support
  - Develop a “Dream Team”
    - Include Instruction and Student Services Faculty and Administration
      - College President, Vice Chancellor of Student Services, Vice President of Instruction, Dean of Academic School, Dean of Curriculum (statewide curriculum expert), and Program Faculty (nationally-recognized in field)
  - “Collegial Collaboration” is imperative
    - Transparent communications to include all constituents early on
    - Regular meetings to discuss progress
    - Divide up the workload by areas of expertise
- Industry input throughout the process
  - Advisory board meetings
  - Program faculty involved community, AS graduates
Curriculum Development

- Identify major course sequence
  - Industry approval once identified
- Identify lower division GE pattern
  - Consider which courses make sense and recommend pattern
- Identify upper division GE courses
  - Support with evidence-based research/data
- Identify faculty to develop the course outlines
  - Work collectively as a team on the development of the courses
  - Use an integrated course outline model
  - Identify the student learning outcomes for the program and course
  - Keep a focus on equity and access
  - Keep Academic Senate and Curriculum Committee informed
- Get local curriculum approval and state curriculum approval
State and Accreditation Approvals

* Submit baccalaureate proposal to state for approval
* Develop program components
* Develop course outlines
  * Submit to State for approval
* Develop and Submit substantive change to ACCJC
* Schedule ACCJC site visit
* Receive notification of ACCJC approval
* Finalize Admission criteria and rating rubrics
* Publish information on website
* Develop CAHIIM accreditation proposal
* Submit to CAHIIM for approval

Overcoming the Hurdles
California’s Biomanufacturing Baccalaureate

Novelty and Workforce Needs

Mike Fino - Interim Dean, Math and Sciences
Mary Benard, EdD - Vice President, Instructional Services
Need for a biomanufacturing baccalaureate

• 2008: the first profitable year
• Anecdotal information from local companies
• Published reports at regional and state level for biotechnology and, specifically, manufacturing
• Broad support from industry, workforce groups, local government, state, and national organizations
Non-duplication of CSU/UC degrees

Biotechnology Product Lifecycle

- **Research**
  - Discovery
  - Preclinical studies

- **Development**
  - Clinical studies
  - Scale-up

- **Production**
  - Quality
  - Compliance

PRODUCT UNDERSTANDING
CSU/UC Biotechnology

PROCESS UNDERSTANDING
MiraCosta Biomanufacturing
Upper Division Biomanufacturing Coursework

**Biomanufacturing Science and Technology**
- Process Sciences
- Design of Experiments for Biomanufacturing
- Design of Biomanufacturing Facilities, Critical Utilities, Processes, and Equipment
- Bioprocess Monitoring and Control
- Capstone Seminar in Biomanufacturing Technologies (Capstone)

**Biomanufacturing Quality**
- Supply Chain and Enterprise Resource Planning
- Advanced Topics in Quality Assurance and Regulatory Affairs
- Six Sigma and Lean Manufacturing
- Methods in Quality Improvements, Investigations, and Audits
- Capstone Seminar in Biomanufacturing Quality

<table>
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<tr>
<th>General Electives</th>
<th>Bioethics</th>
<th>Molecular Basis for Therapeutics and Diagnostics</th>
<th>Project and Team Leadership</th>
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Targeted Occupations

**Manufacturing**
- Technician/Associate/Specialist/Operator
  - (Bio)manufacturing
  - Bioprocess
  - Biological
  - Upstream
  - Downstream

**Quality**
- Technician/Associate/Specialist/Coordinator/Inspector/Analyst
  - Quality
  - Quality Assurance
  - Quality Control
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