

## Curriculum Committee Minutes

### Curriculum Committee Meeting Roll Call

Date: 4/21/2025

Time: 2:00 p.m. to 4:00 p.m.

Location: NH 215

Call to Order: 2:07 p.m.

Adjournment: 3:28 p.m.

Quorum: 13

|   |  |  |  |  |
|---|--|--|--|--|
| <input type="checkbox"/> Anthony Ababat                     | <input checked="" type="checkbox"/> Samuel Addington | <input checked="" type="checkbox"/> John Banola        | <input type="checkbox"/> Elizabeth Banuelos        | <input checked="" type="checkbox"/> Thomas Berry (Faculty Chair) |
| <input checked="" type="checkbox"/> Melita Caldwell-Betties | <input checked="" type="checkbox"/> Mary Copeland    | <input checked="" type="checkbox"/> Todd Heibel (NURS) | <input type="checkbox"/> Leticia Hector (Chair)    | <input type="checkbox"/> Kristina Heilgeist*                     |
| <input type="checkbox"/> Denise Knight                      | <input checked="" type="checkbox"/> Keith Lee        | <input type="checkbox"/> Steven C. Lee                 | <input checked="" type="checkbox"/> Jessie Lemieux | <input type="checkbox"/> Breanna Lopez                           |
| <input type="checkbox"/> Kevin Lyons                        | <input type="checkbox"/> Micah Martin                | <input checked="" type="checkbox"/> David Martin       | <input type="checkbox"/> Jesus Navarro             | <input checked="" type="checkbox"/> Maria Notarangelo            |
| <input checked="" type="checkbox"/> Matthew Robles          | <input checked="" type="checkbox"/> Jamie Salyer     | <input checked="" type="checkbox"/> Rutina Taylor      | <input checked="" type="checkbox"/> Janice Wilkins | <input checked="" type="checkbox"/> Vinnie Wu*                   |
| <input checked="" type="checkbox"/> Kay Dee Yarbrough       | <input type="checkbox"/> Student Reps. (2)           | Nori Sogomonian (DE)                                   |  |  |
| <b>Guests:</b>  | Daihim Fozouni (ENGL)                                | Dirkson Lee (ESL)                                      | Tim Colbert (ART)                                  | Carol Jones (CHEM)   |
|   | Vanessa Thomas                                       | Lucas Cuny (FTVM)                                      | Jessica Gordon (MUS)                               |  |
|   |  |  |  |  |

*Co-chair - In the event of a tie vote, discussion will be re-opened, followed by a second vote. If the tie still persists, the Curriculum Chair shall cast the deciding vote.*

*\*non-voting members*

### Agenda Items

|                            |  |
|----------------------------|--|
| <b>Approval of Minutes</b> | Approval of minutes for February 10, 2025, March 3, 2025, March 24, 2025, and April 7, 2025 – Tabled.  |
| <b>VPI Report</b>          | Tabled.  |
| <b>New Business</b>        | <p><b>A. Welcome:</b> Thomas Berry welcomed the committee to one of the final the Curriculum Committee meetings of the semester!</p> <p><b>B. Informational Items</b></p> <ol style="list-style-type: none"> <li><b>Transfer Degree updates for 2025-2026 to align with Cal-GETC and CCN:</b> Janice Wilkins informed the committee of the transfer degrees scheduled to be aligned by Fall 2025. The Chemistry degree is currently on hold, pending publication of the transfer degree by the Chancellor's Office.</li> <li><b>Reviewing Upper Division Courses for Bachelor's Degrees Programs (See PDF resource: CCC Upper Division Information):</b> Thomas notified the committee of the PDF that was attached to this week's agenda, detailing how to review upper division courses for a bachelor's degree program.</li> <li><b>Administrative update COMMST 140:</b> COMMST 140 (COMM 140) recently went through the Cal-GETC process for articulation, but there were updates needed to the course per reviewers' comments. The department has made the suggested changes and will be re-submitting for articulation. <ol style="list-style-type: none"> <li><b>Motion to Change label from COMMST 140 to COMM 140:</b><br/>1<sup>st</sup>: Jamie Salyer</li> </ol> </li> </ol> |

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*Note: Committee members are voting on all Proposals, Requisites, Advisories, and Distance Education.*

|  |  |
|--|--|
|  | <p>2<sup>nd</sup>: Todd Heibel<br/>14 Responses<br/>Aye: 100% (14 votes)<br/>Nay: 0% (0 votes)<br/>Abstain: 0% (0 votes)<br/><b>Motion Passes</b></p> <p><b>C. Action Items</b></p> <p>a. Course &amp; Program Approval Action Items</p> <p>i. Course Approvals</p> <p>ii. Program Approvals</p> |
| <b>Announcements and Public Comments</b> |  |

| <b>Course Approval Action Items</b> |  |                    |                       |                        |  |
|-------------------------------------|--|--------------------|-----------------------|------------------------|--|
| <b>Course ID:</b>                   | <b>Course Title:</b>   | <b>Originator:</b> | <b>Proposal Type:</b> | <b>Notes/Comments:</b> | <b>Voting:</b>   |
| ESL 610                             | Workforce Preparation for English Language Learners—Language and Customs of the American Workplace | D. Lee             | Modification          |                        | <b>Motion to approve to bundle ESL 610, 611, 612, and 613.</b><br>1 <sup>st</sup> : M. Copeland<br>2 <sup>nd</sup> : N. Sogomonian<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b><br><br><b>Motion to approve ESL bundle.</b><br>1 <sup>st</sup> : D. Martin<br>2 <sup>nd</sup> : N. Sogomonian<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b> |
| ESL 611                             | Workforce Preparation for English Language Learners - Applying for Employment                      | D. Lee             | Modification          |                        |  |
| ESL 612                             | Workforce Language Preparation for Entry Level Positions in the Food Service Industry              | D. Lee             | Modification          |                        |  |
| ESL 613                             | Workforce Language Preparation for Entry Level Positions in the Retail Industry                    | D. Lee             | Modification          |                        |  |

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| Course Approval Action Items |   |              |                |                 |  |
|------------------------------|---|--------------|----------------|-----------------|--|
| Course ID:                   | Course Title:                                       | Originator:  | Proposal Type: | Notes/Comments: | Voting:  |
| FTVM 213                     | Radio and Podcast Operations                        | K. Lyons     | Review         |                 | <b>Motion to approve FTVM 213.</b><br>1 <sup>st</sup> : N. Sogomonian<br>2 <sup>nd</sup> : M. Robles<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>   |
| MUS 160X4                    | Commercial Music Ensemble                           | J. Gordon    | New            |                 | <b>Motion to approve MUS 160x4.</b><br>1 <sup>st</sup> : T. Heibel<br>2 <sup>nd</sup> : J. Banola<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>  |
| NURS 140                     | Vocational to Professional Nurse                    | R. Kappattil | Modification   |                 | <b>Motion to bundle Nursing 140, 150, 151, 160, 161, 250, 251, 260, 261.</b><br>1 <sup>st</sup> : D. Martin<br>2 <sup>nd</sup> : T. Heibel<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b><br><br><b>Motion to approve Nursing classes.</b><br>1 <sup>st</sup> : R. Taylor |
| NURS 150                     | Foundations of Nursing                              | R. Kappattil | Modification   |                 |  |
| NURS 151                     | Introduction to Medical Surgical Nursing            | R. Kappattil | Modification   |                 |  |
| NURS 160                     | Nursing Care of the Childbearing Family and Newborn | R. Kappattil | Modification   |                 |  |
| NURS 161                     | Beginning Medical Surgical Nursing                  | R. Kappattil | Modification   |                 |  |
| NURS 250                     | Nursing Care of Children and their Families         | R. Kappattil | Modification   |                 |  |
| NURS 251                     | Intermediate Medical Surgical Nursing               | R. Kappattil | Modification   |                 |  |

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| Course Approval Action Items |  |                     |                |                 |  |
|------------------------------|--|---------------------|----------------|-----------------|--|
| Course ID:                   | Course Title:                              | Originator:         | Proposal Type: | Notes/Comments: | Voting:  |
| NURS 260                     | Psychiatric-Mental Health Nursing          | R. Kappattil        | Modification   |                 | 2 <sup>nd</sup> : J. Salyer<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>  |
| NURS 261                     | Complex Care and Leadership                | R. Kappattil        | Modification   |                 |  |
| STAT 300                     | Applied Statistical Research and Analysis  | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve STAT 300.</b><br>1 <sup>st</sup> : D. Martin<br>2 <sup>nd</sup> : J. Salyer<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b> |
| WRM 301                      | California Water History                   | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 301.</b><br>1 <sup>st</sup> : J. Salyer<br>2 <sup>nd</sup> : M. Robles<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>  |
| WRM 302                      | Introduction to Water Resources Management | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 302.</b><br>1 <sup>st</sup> : M. Robles<br>2 <sup>nd</sup> : J. Salyer<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>  |

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|------------------------------|---|---------------------|----------------|-----------------|---|
| Course ID:                   | Course Title:   | Originator:         | Proposal Type: | Notes/Comments: | Voting:   |
| WRM 305                      | Written Communication and Critical Thinking for Advancing Leaders in the Water Industry | M. Caldwell-Betties | New Course     |                 | <p><b>Motion to approve WRM 305.</b><br/> 1<sup>st</sup>: J. Lemieux<br/> 2<sup>nd</sup>: R. Taylor<br/> <b>Motion Rescinded.</b></p> <p><b>Motion to Table WRM 305 so ENGL department can update the course.</b><br/> 1<sup>st</sup>: M. Copeland<br/> 2<sup>nd</sup>: M. Robles<br/> 14 Responses<br/> Aye: 100% (14 votes)<br/> Nay: 0% (0 votes)<br/> Abstain: 0% (0 votes)<br/> <b>Motion Passes</b></p> |
| WRM 310                      | Applied and Professional Ethics in the Water Sector                                     | M. Caldwell-Betties | New Course     |                 | <p><b>Motion to approve WRM 310.</b><br/> 1<sup>st</sup>: M. Robles<br/> 2<sup>nd</sup>: D. Martin<br/> 14 Responses<br/> Aye: 100% (14 votes)<br/> Nay: 0% (0 votes)<br/> Abstain: 0% (0 votes)<br/> <b>Motion Passes</b></p>  |
| WRM 315                      | Technology and Public Administration  | M. Caldwell-Betties | New Course     |                 | <p><b>Motion to approve WRM 315.</b><br/> 1<sup>st</sup>: J. Salyer<br/> 2<sup>nd</sup>: M. Robles<br/> 14 Responses<br/> Aye: 100% (14 votes)<br/> Nay: 0% (0 votes)</p>   |

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| Course Approval Action Items |  |                     |                |                 |   |
|------------------------------|--|---------------------|----------------|-----------------|---|
| Course ID:                   | Course Title:                          | Originator:         | Proposal Type: | Notes/Comments: | Voting:   |
|                              |  |                     |                |                 | Abstain: 0% (0 votes)<br><b>Motion Passes</b>   |
| WRM 320                      | Strategic Planning in the Water Sector | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 320.</b><br>1 <sup>st</sup> : J. Salyer<br>2 <sup>nd</sup> : M. Robles<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>   |
| WRM 325                      | Water Resources Economics              | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 325.</b><br>1 <sup>st</sup> : J. Banola<br>2 <sup>nd</sup> : D. Martin<br><b>Motion Rescinded.</b><br><br><b>Motion to table so the ECON department can review.</b><br>1 <sup>st</sup> : M. Copeland<br>2 <sup>nd</sup> : J. Lemieux<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b> |
| WRM 330                      | Water Law                              | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 330.</b><br>1 <sup>st</sup> : M. Copeland<br>2 <sup>nd</sup> : M. Robles<br>14 Responses   |

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| Course Approval Action Items |  |                     |                |                 |  |
|------------------------------|--|---------------------|----------------|-----------------|--|
| Course ID:                   | Course Title:  | Originator:         | Proposal Type: | Notes/Comments: | Voting:  |
|                              |  |                     |                |                 | Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>   |
| WRM 335                      | Tribal Water Rights                                      | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 335.</b><br>1 <sup>st</sup> : M. Notarangelo<br>2 <sup>nd</sup> : D. Martin<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b> |
| WRM 340                      | International Environmental Policy                       | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 340.</b><br>1 <sup>st</sup> : M. Robles<br>2 <sup>nd</sup> : J. Salyer<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>      |
| WRM 401                      | Managing Public Organizations in the Water Sector        | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 401.</b><br>1 <sup>st</sup> : D. Martin<br>2 <sup>nd</sup> : J. Salyer<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>      |
| WRM 402                      | Water Resources Management and the Public Policy Process | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 402.</b>  |

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| Course Approval Action Items |  |                     |                |                 |   |
|------------------------------|--|---------------------|----------------|-----------------|---|
| Course ID:                   | Course Title:  | Originator:         | Proposal Type: | Notes/Comments: | Voting:   |
|                              |  |                     |                |                 | 1 <sup>st</sup> : M. Robles<br>2 <sup>nd</sup> : D. Martin<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>  |
| WRM 420                      | Human Resources<br>Administration in the Water<br>Sector | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve<br/>WRM 420.</b><br>1 <sup>st</sup> : R. Taylor<br>2 <sup>nd</sup> : D. Martin<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b> |
| WRM 430                      | Water Sector Leadership and<br>Diversity                 | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve<br/>WRM 430.</b><br>1 <sup>st</sup> : R. Taylor<br>2 <sup>nd</sup> : J. Salyer<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b> |
| WRM 440                      | Collective Bargaining and<br>Labor Relations             | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve<br/>WRM 440.</b><br>1 <sup>st</sup> : D. Martin<br>2 <sup>nd</sup> : R. Taylor<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)                         |

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| Course Approval Action Items           |   |                     |                |                 |  |
|--|---|---------------------|----------------|-----------------|--|
| Course ID:                             | Course Title:   | Originator:         | Proposal Type: | Notes/Comments: | Voting:  |
|  |   |                     |                |                 | Motion Passes  |
| WRM 460                                | Capital Budgeting and Debt Management Systems –<br><i>Updated to Water Resources Budgeting and Financial Management</i> | M. Caldwell-Betties | New Course     |                 | <p>Motion to change the name from Capital Budgeting and Debt Management Systems to Water Resources Budgeting and Financial Management</p> <p>1<sup>st</sup>: M. Notarangelo<br/>2<sup>nd</sup>: M. Robles<br/>14 Responses<br/>Aye: 100% (14 votes)<br/>Nay: 0% (0 votes)<br/>Abstain: 0% (0 votes)<br/><b>Motion Passes</b></p> <p><b>Motion to Approve WRM 460.</b></p> <p>1<sup>st</sup>: D. Martin<br/>2<sup>nd</sup>: J. Banola<br/>13 Responses<br/>Absent: J. Wilkins<br/>Aye: 100% (13 votes)<br/>Nay: 0% (0 votes)<br/>Abstain: 0% (0 votes)<br/><b>Motion Passes</b></p> |
| WRM 490 -<br><i>Updated to GIS 400</i> | GIS and Data Analysis in Water Resources Management   | M. Caldwell-Betties | New Course     |                 | <p><b>Motion to update to Water Resource Management</b></p> <p>1<sup>st</sup>: M. Caldwell-Betties<br/>2<sup>nd</sup>: M. Notarangelo<br/>13 Responses<br/>Absent: J. Wilkins</p>  |

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| Course Approval Action Items |               |             |                |                 |  |
|------------------------------|---------------|-------------|----------------|-----------------|--|
| Course ID:                   | Course Title: | Originator: | Proposal Type: | Notes/Comments: | Voting:  |
|                              |               |             |                |                 | <p>Aye: 100% (13 votes)<br/>Nay: 0% (0 votes)<br/>Abstain: 0% (0 votes)<br/><b>Motion Passes</b></p> <p><b>Motion to blanket approve all courses with Water Resource Management to Water Resources Management</b><br/>1<sup>st</sup>: M. Notarangelo<br/>2<sup>nd</sup>: D. Martin<br/>13 Responses<br/>Absent: J. Wilkins<br/>Aye: 100% (13 votes)<br/>Nay: 0% (0 votes)<br/>Abstain: 0% (0 votes)<br/><b>Motion Passes</b></p> <p><b>Motion to approve WRM 490.</b><br/>1<sup>st</sup>: D. Martin<br/>2<sup>nd</sup>: J. Salyer</p> <p><b>Motion amended to approve WRM 490 with a name change to GIS 400.</b></p> <p><b>Motion amended to approve name change from WRM 490 to GIS 400 and the addition of</b></p> |

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| Course Approval Action Items |   |                     |                |                 |   |
|------------------------------|---|---------------------|----------------|-----------------|---|
| Course ID:                   | Course Title:   | Originator:         | Proposal Type: | Notes/Comments: | Voting:   |
|                              |   |                     |                |                 | the textbooks to the COR.<br>13 Responses<br>Absent: J. Wilkins<br>Aye: 100% (13 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>   |
| WRM 495                      | Research Methods in Water Resources Management                    | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 495.</b><br>1 <sup>st</sup> : D. Martin<br>2 <sup>nd</sup> : M. Robles<br>13 Responses<br>Absent: J. Wilkins<br>Aye: 100% (13 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b> |
| WRM 498                      | Internship in Water Resources Management                          | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 498.</b><br>1 <sup>st</sup> : R. Taylor<br>2 <sup>nd</sup> : D. Martin<br>13 Responses<br>Absent: J. Wilkins<br>Aye: 100% (13 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b> |
| WRM 499A                     | Applied Research (Capstone) Project in Water Resources Management | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve WRM 499A.</b><br>1 <sup>st</sup> : D. Martin<br>2 <sup>nd</sup> : R. Taylor<br>13 Responses  |

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| Course Approval Action Items |  |                     |                |                 |  |
|------------------------------|--|---------------------|----------------|-----------------|--|
| Course ID:                   | Course Title:  | Originator:         | Proposal Type: | Notes/Comments: | Voting:  |
|                              |  |                     |                |                 | Absent: J. Wilkins<br>Aye: 100% (13 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>   |
| WRM 499B                     | Comprehensive Written Exam<br>in Water Resources<br>Management | M. Caldwell-Betties | New Course     |                 | <b>Motion to approve<br/>WRM 499B.</b><br>1 <sup>st</sup> : D. Martin<br>2 <sup>nd</sup> : N. Sogomonian<br>13 Responses<br>Absent: J. Wilkins<br>Aye: 100% (13 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b> |
| WST 034                      | Introduction to Water<br>Resources Management                  | M. Caldwell-Betties | Inactivation   |                 | <b>Motion to inactivate<br/>WST 034.</b><br>1 <sup>st</sup> : J. Salyer<br>2 <sup>nd</sup> : T. Heibel<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>                         |

| Program Tech Review Items   |             |                 |                 |  |
|---|-------------|-----------------|-----------------|--|
| Program Title:  | Originator: | Proposal Type:  | Notes/Comments: | Voting:  |
| Artistic Glass Blowing Certificate of Achievement<br>– <i>Updated to Artistic Glass and Design Certificate<br/>of Achievement</i> | T. Colbert  | New Certificate |                 | <b>Motion to update title<br/>to Artistic Glass and<br/>Design Certificate of<br/>Achievement</b><br>1 <sup>st</sup> : M. Robles |

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| Program Tech Review Items |              |                |                 |   |
|---------------------------|--------------|----------------|-----------------|---|
| Program Title:            | Originator:  | Proposal Type: | Notes/Comments: | Voting:   |
|                           |              |                |                 | 2 <sup>nd</sup> : N. Sogomonian<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b><br><br><b>Motion to approve the Artistic Glass and Design Certificate.</b><br>1 <sup>st</sup> : N. Sogomonian<br>2 <sup>nd</sup> : J. Lemieux<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b> |
| Nursing A.S. Degree       | R. Kappattil | Modification   |                 | <b>Motion to approve Nursing AS Degree.</b><br>1 <sup>st</sup> : M. Copeland<br>2 <sup>nd</sup> : M. Robles<br>14 Responses<br>Aye: 100% (14 votes)<br>Nay: 0% (0 votes)<br>Abstain: 0% (0 votes)<br><b>Motion Passes</b>   |

**Motion to adjourn at 3:28 p.m.:**

1<sup>st</sup>: M. Notarangelo

2<sup>nd</sup>: M. Robles

13 Responses

Absent: J. Wilkins

Aye: 100% (13 votes)

*The Curriculum Committee recommends that the pre-requisites and co-requisites approved be re-evaluated in the next 2-3 years by the appropriate departments/programs to ensure student success.*

*Note: Committee members are voting on all Proposals, Requisites, Advisories, and Distance Education.*

Nay: 0% (0 votes)

Abstain: 0% (0 votes)

**Motion Passes**

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Note: Committee members are voting on all Proposals, Requisites, Advisories, and Distance Education.*

# What Makes an Upper Division Course Differ from a Lower Division Course?

Upper division courses are defined as requiring lower division knowledge and applying that knowledge as demonstrated measures of critical thinking through writing, oral communication, or computation. Upper division coursework may also encompass research elements, workforce training, apprenticeships, internships, required practicum, or capstone projects. Upper division courses typically will have one or more lower division or upper division prerequisites that have been established using content review of the entry skills necessary to be successful as outlined in the California Code of Regulations (CCR), title 5, section 55003.

California Community College Academic Senate Baccalaureate Handbook

# Solano College adapted that definition of an Upper Division Course

Solano Community College defines upper division coursework as requiring lower division knowledge and applying that knowledge as demonstrated measures of critical thinking through writing, oral communication, or computation, and allow that upper division coursework may encompass research elements, workforce training, apprenticeships, internships, required practicum, or capstone projects. - Solano College Academic Senate

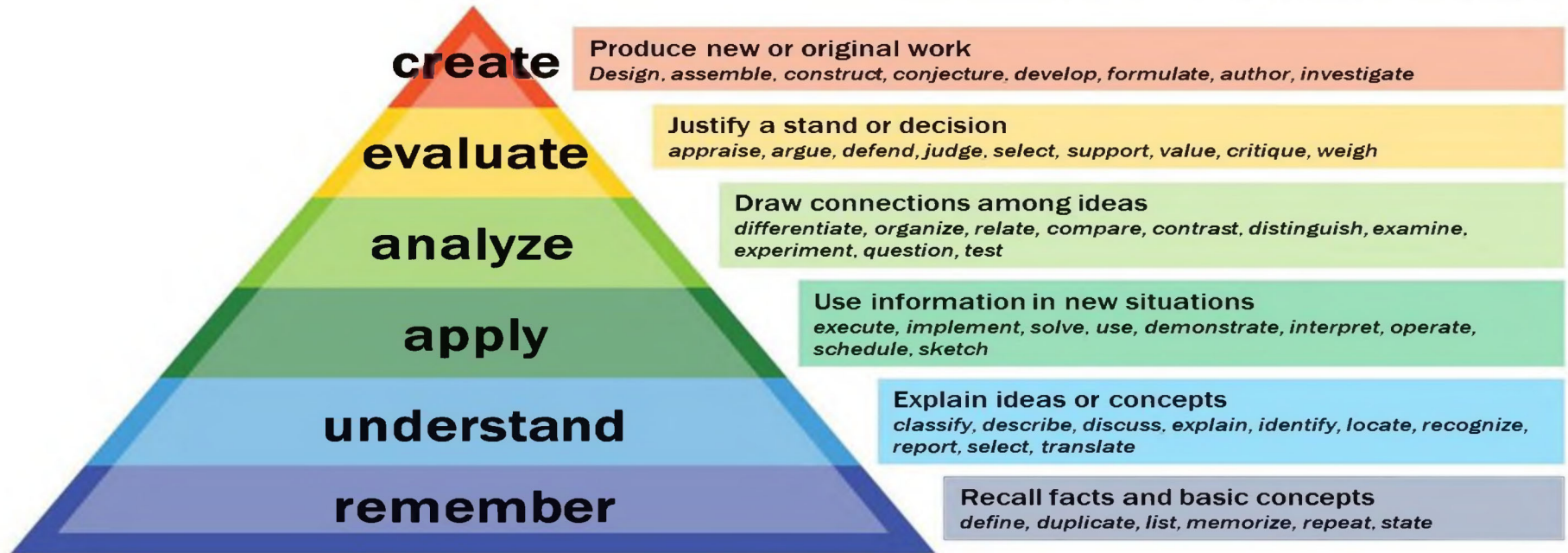


# What makes an upper division course differ from a lower division course?

1. Depth/Focus: student outcomes include the development and understanding of the theories and methods of the discipline which may include the applications and limitations of those theories.
2. Specialization: student outcomes include specific intellectual and professional abilities to enable success or progress in a particular field or professional practice.
3. Refinement: student are able to build upon the “general education” background noted above the application of these skills in more discerning or challenging contexts.
4. Preparation: prerequisites may include more general courses, student class standing, GPA requirements, or admission to a pre-professional program.
5. Capstone Courses/Projects: though not necessarily specialized or focused on in-depth study of one discipline, student outcomes may have an integrative function wherein students integrate knowledge from earlier studies.

# Bloom's Taxonomy

## Bloom's Taxonomy



# Student Learning Outcomes Require the Application of Higher Levels of Bloom's Taxonomy

## Lower Division Prerequisite Course SLO

1. Describe an overview of the process in the production pipeline for manufacturing a protein pharmaceutical.
2. Outline the business life cycle of a biotechnology company.
3. Outline the structure of the Food and Drug Administration and describe how they assure the safety, efficacy, identity, purity, and potency of a drug or biologic through the enforcement of current Good Manufacturing Practices.

## Upper Division Course SLO

1. As the result of this course students will develop the ability to utilize a Quality by Design (QbD) approach to develop a regulatory strategy for a protein pharmaceutical. In this approach students will identify the critical quality attributes (CQAs) of the product, the relationship between the product and the process used to produce it, the quality considerations of the raw materials, and knowledge of the product's clinical properties to design a strategy. Students will identify how a company's different teams - research and development, manufacturing, quality control, and regulatory affairs – team to produce a regulation system. (Bloom's Taxonomy: Create) (Webb's Depth of Knowledge: Extended Thinking)

# Student Learning Outcomes Require the Application of Higher Levels of Bloom's Taxonomy

## Lower Division Prerequisite Course SLO

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2. Outline the business life cycle of a biotechnology company.
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## Upper Division Course SLO

2. As the result of this course students will develop the ability to read and critically analyze primary documents from the International Council for Harmonisation (e.g. ICH 7, ICH 8, ICH 9, and ICH 10) and evaluate how the basic science that governs the manufacturing of protein pharmaceuticals led to the design of these regulations.

(Bloom's Taxonomy: Analyze)

(Webb's Depth of Knowledge: Extended Thinking)

| <b>Biomanufacturing Upper</b>  |  |
|--|--|
| <b>Biomanufacturing Process Sciences (Lecture/Lab) BIOT 401 (5 Units)</b> <ul style="list-style-type: none"> <li>Physical and chemical principles of biochemical engineering that enable large cell culture</li> <li>Thermodynamics and the properties of fluids; mass and heat transfer, fluid flow, and the energy relationships in fluid systems</li> <li>Biomanufacturing technologies enabling large scale upstream and downstream processes</li> </ul>   | <b>Supply Chain and Enterprise Resource Planning (Lecture) BIOT 406 (3 Units)</b> <ul style="list-style-type: none"> <li>Manage flow of materials in a supply chain</li> <li>Understand the design, planning and execution of raw material procurement and use</li> <li>Eligibility for certification test</li> </ul>  |
| <b>Design of Experiments for Biomanufacturing (Lecture/Lab) BIOT 402 (4 Units)</b> <ul style="list-style-type: none"> <li>Established methods to systematically vary process parameters to improve and optimize a biomanufacturing process</li> </ul>  | <b>Advanced Topics in Quality Assurance and Regulatory Affairs (Lecture) BIOT 407 (4 Units)</b> <ul style="list-style-type: none"> <li>Study of the harmonized quality system approaches of ICH Q8, 9, 10, and 11, including quality risk management, qualification, and validation</li> </ul>   |
| <b>Design of Biomanufacturing Facilities, Critical Utilities, Processes, and Equipment (Lecture) BIOT 403 (4 Units)</b> <ul style="list-style-type: none"> <li>An examination of how the robust design of all aspects of a biomanufacturing facility minimizes errors</li> <li>The role of Quality by Design (ICH Q8) in facility design</li> <li>Processes and equipment in biological production, recovery, and purification.</li> <li>Aseptic process design.</li> <li>Clean utility and support systems</li> </ul> | <b>Six Sigma and Lean Manufacturing (Lecture/Discussion) BIOT 408 (4 Units)</b> <ul style="list-style-type: none"> <li>Study of key six sigma concepts and tools; the DMAIC phases: design, measure, analyze, improve, and control</li> <li>Use and implementation of lean tools to reduce waste</li> <li>Completion of this course prepares students to earn a certification in six sigma.</li> </ul> |
| <b>Bioprocess Monitoring and Control (Lecture/Lab) BIOT 404 (5 Units)</b> <ul style="list-style-type: none"> <li>The measurement, monitoring, modeling, and control of biomanufacturing processes.</li> </ul>  | <b>Methods in Quality Improvements, Investigations, and Audits (Lecture) BIOT 409 (4 Units)</b> <ol style="list-style-type: none"> <li>The study of continuous quality improvement techniques, including investigational methods into process deviations</li> </ol>  |
| <b>Emerging Biomanufacturing Technologies (Seminar) BIOT 405 (3 Units)</b> <ul style="list-style-type: none"> <li>An examination of new technologies in biological production and purification operations.</li> </ul>  | <b>Emerging Trends in Biomanufacturing Quality (Seminar) BIOT 410 (3 Units)</b> <ul style="list-style-type: none"> <li>An examination of new regulatory requirements and changes to current practices in biomanufacturing quality</li> </ul>   |