CALIFORNIA STATE UNIVERSITY, LONG BEACH

UNIVERSITY ARTICULATION OFFICE

August 1, 2017

Articulation Officers
California Community Colleges and
Participating Private Colleges
California State University Campuses
University of California Campuses

Dear Articulation Officers,

California State University, Long Beach provides all public institutions of higher education with information concerning forthcoming, relevant changes to our lower-division curriculum. **The changes to courses and programs noted below will be effective with Fall 2017 semester.** Articulation agreements will not need any review unless specifically stated. All curriculum is available in our University Catalog.

To reiterate our fundamental articulation policy: CSU, Long Beach wishes to articulate as many lower division courses with California institutions as possible. We do not generally articulate between upper-division and lower-division courses. We require a standard course outline for review in all requests for articulation.

New Courses – Fall 2017: If you have any lower division courses comparable to our courses listed below (articulation wanted), please submit your current course outlines for review.

- **DANC 107. Introduction to Hip Hop Dance (3)**
  Prerequisite: GE Foundation requirements.
  Exploration of the development of hip hop dance through study of aesthetic principles and social context. Lectures, screenings, and movement sessions.
- **DANC 209. Intermediate Hip Hop (2)**
  Prerequisite: DANC 109 or consent of instructor.
  Intermediate skill and techniques in Hip Hop Dance.
  May be repeated to a maximum of 6 units in different semesters. Dance majors/minors must take for letter grade. (4 hours studio)
- **DESN 130. Perspective and Rendering for Interiors (3)**
  Perspective Rendering Interiors
  Prerequisites: None
  Fundamentals of design drawing techniques including perspective and rendering techniques for interior spaces.
  Letter grade only (A-F). (6 hour laboratory)
- **DESN 230. Visualization for Interior Architecture (3)**
  Prerequisites: DESN 130 and DESN 142 or consent of instructor.
  Introduction to visual communication methods and techniques used by interior designers to develop and convey two-dimensional and three-dimensional ideas. Exploration of digital image manipulation and graphic presentation techniques for interior design projects is combined with traditional sketching and rendering methods.

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Letter grade only (A-F). (6 hours laboratory)

- **THEA 116. Fundamentals of Collaboration (3)**
  Fundamentals of Collaboration
  Prerequisites: 3 units of Theatre Arts or consent of instructor.
  Introduction to ensemble work for the theatre. Students learn a range of techniques for collectively devising and staging original performances – as actor, director, designer and dramaturg. Students gain experience as self-generating artists who can work independently and collaboratively.
  Letter Grade Only (A-F). (2 hours lecture, 3 hours lab)
- **THEA 141A. Orientation to Production Crafts (3)**
  Production Crafts A
  Co-Requisite: THEA 140 or THEA 340.
  Introduction to the fundamentals of scenic and lighting design. Practical lab applications in the lighting and stagecraft shop using tools and materials safely as they apply to lighting and stage design.
  Letter Grade Only (A-F). (2 hours lecture, 3 hours lab)
  Not open to students with credit in THEA 142 or THEA 148
- **THEA 141B. Orientation to Production Crafts (3)**
  Production Crafts B
  Co-Requisite: THEA 140 or THEA 340.
  Introduction to the fundamentals of costume design, costume craft and stage management. Examines the functions of these roles in relation to script, director, designers, and performers.
  Letter Grade Only (A-F). (2 hours lecture, 3 hours lab)
  Not open to students with credit in THEA 146 or THEA 271.
- **EDEC 200. Introduction to Early Childhood Education (3)**
  Introduction to Early Childhood Education
  Prerequisite: Any G.E. Foundation (G.E. Category D2 Social Sciences and Citizenship)
  Exploration of programs and services, and career options for serving young children and families. Includes overview of theoretical influences, key issues in educational settings, and developmentally appropriate practice of early childhood education.
  Letter grade only (A-F).
- **BME 210. Biomedical Signals and Systems (3)**
  Prerequisites: CHEM 111B, EE 380, MATH 249, BME 201
  Physiological Signals and their properties, Linear time invariant systems (LTI), Causality, Filtering, Time and Frequency Domain Analysis, Correlation Analysis, Laplace and Fourier Analysis.
  Letter grade only (A-F), (Lecture 2 hours, Laboratory 3 hours)
- **BME 211. Biomechanics I (3)**
  Prerequisites: PHYS 151, MATH 224
  Introduction to statics, rigid bodies, analysis of structures, force in beams and moments of inertia with application to biomedical systems.
  Letter grade only (A-F). (Lecture 2 hours, Laboratory 3 hours)
- **ENGR 090. Special Topics in Engineering (1)**
  Workforce training in various fields of Engineering, including but not limited to transportation, energy and environment, computer science, cyber security, manufacturing, testing and assessment, and elecronic systems.
  Credit/no credit, May be repeated to a maximum of 8 units, with different topics in the same semester.
  (Lecture 1 hour, Technical Activities and lab 1 hour)
- **MAE 172A. Engineering Design Graphics – AutoCAD (2)**
  Prerequisites: None
  Engineering graphics and drafting principles focusing on civil engineering applications. Graphic expressions using AutoCAD, 2D drawing, standards, tolerances in civil engineering, geometric construction, Multiview, sectional view, dimensioning, and detail drawings. Projects, homework

involving architectural and civil engineering plans in AUTOCAD.
Not open for credit to student with credit in MAE 172
Letter grade only (A-F)
(Lecture-Problems 1 hour, Laboratory 3 hours)

- **MAE 172B. Engineering Design Graphics – Solidworks (2)**
  Prerequisites: None
  Graphics concept and visualization. Graphic expressions using SolidWorks, emphasis on industrial practice involving part and assembly drawings for actual products, standards, tolerances, surface finishes, and other attributes on drawings, and production drawings. Projects involving complete design of systems and subsystems.
  Not open for credit to student with credit in MAE 172
  Letter grade only (A-F)
  (Lecture-Problems 1 hour, Laboratory 3 hours)
- **MAE 172C. Engineering Design Graphics – CATIA (2)**
  Prerequisites: None
  Graphics concept and visualization. Graphic expressions using CATIA, emphasis on industrial practice involving part and assembly drawings for actual products, standards, tolerances, surface finishes, and other attributes on drawings, and production drawings. Projects involving complete design of systems and subsystems.
  Not open for credit to student with credit in MAE 172
  Letter grade only (A-F)
  (Lecture-Problems 1 hour, Laboratory 3 hours)
- **BME 100H. Introduction to Biomedical Engineering (1)**
  Introduction to major topics and concepts in Biomedical Engineering. Current and future trends and challenges in various subfields of Biomedical Engineering. Social, ethical and economical issues related to biomedical technology. Exploration of career and professional development opportunities.
  Letter grade only (A-F). Same course as BME 100. Open to students in the Engineering Honors Program. Additional assignments/projects adding depth to the course materials required for Engineering Honors students. Not open for credit to students with credit in BME 100. (Lecture 1 hour)
- **CHE 100H. Introducton to Chemical Engineering (1)**
  Chemical engineering as a profession. Nature of profession and career opportunities. Emerging frontiers of chemical engineering. Letter grade only (A-F). Same course as CHE 100. Open to students in the Engineering Honors Program. Additional assignments/projects adding depth to the course materials required for Engineering Honors students. Not open for credit to students with credit in CHE 100. (Lecture 1 hour)
- **CE 101H. Introduction to Civil Engineering and Construction Engineering Management (1)**
  Civil engineering and construction engineering management as a profession. Current trends and challenges, ethical, social and environmental issues in professional practice. Professional organizations and licensure. Communication and lifelong learning skills for professional practice. Letter grade only (A-F). Same course as CE 101. Open to students in the Engineering Honors Program. Additional assignments/projects adding depth to the course materials required for Engineering Honors students. Not open for credit to students with credit in CE 101. (Lecture-problems 1 hour)
- **CECS 105H. Introduction to Computer Engineering and Computer Science (1)**
  Introduction to the fields of computer engineering and computer science. Current and future trends and challenges in various fields of computing. Social, ethical and economic issues related to computing technology. Exploration of career and professional development opportunities. Letter grade only (A-F). Same course as CECS 105. Open to students in the Engineering Honors Program. Additional assignments/projects adding depth to the course materials required for Engineering Honors students. Not open for credit to students with credit in CECS 105. (Lecture 1 hour)

- **EE 200H. Trends in Electrical Engineering (1)**
  Electrical Engineering as a profession. Nature of professional and design activities. Advances in Electrical Engineering. Current designs, future trends and challenges in various fields of Electrical Engineering.
  Letter grade only (A-F). Same course as EE 200. Open to students in the Engineering Honors Program. Additional assignments/projects adding depth to the course materials required for Engineering Honors students. Not open for credit to students with credit in EE 200. (Lecture 1 hour)
- **MAE 101AH. Introduction to Aerospace Engineering (1)**
  Prerequisite: Freshman standing or consent of instructor and MATH 111 or MATH 113 or MATH 122 with a grade of "C" or better.
  Role of various types of engineering specialties in the development of an actual aerospace vehicle product. Current social, ethical and environmental issues in Aerospace Engineering solutions. Life-long learning skills using resources from professional societies and Internet are also emphasized.
  Letter grade only (A-F). Same course as MAE 101A. Open to students in the Engineering Honors Program. Additional assignments/projects adding depth to the course materials required for Engineering Honors students. Not open for credit to students with credit in MAE 101A. (Lecture-problems 1 hour)
- **MAE 101BH. Introduction to Mechanical Engineering (1)**
  Prerequisite: Freshman standing or consent of instructor and MATH 111 or MATH 113 or MATH 122 with a grade of "C" or better.
  Introduction to mechanical engineering as a profession. Past, present, and future trends and related professional opportunities and challenges. Introduction to mechanical engineering curriculum studies. Social, economic, cultural, legal and ethical issues related to mechanical engineering and its applications.
  Letter grade only (A-F). Same course as MAE 101B. Open to students in the Engineering Honors Program. Additional assignments/projects adding depth to the course materials required for Engineering Honors students. Not open for credit to students with credit in MAE 101B. (Lecture-problems 1 hour)
- **HSC 250. Public Health Aspects of Communicable and Non-Communicable Diseases (3)**
  Public Health Aspect of Disease
  Prerequisite: BIOL 205 or BIOL 207
  Introduction to communicable and non-communicable diseases including their epidemiology, global disease burden, pathophysiology, treatment and prevention strategies.
  Letter grade only (A-F). (3 hours lecture)
- **PHIL 101. The Meaning of Life (3)**
  Prerequisites/Corequisites: Any course from GE Foundation categories A.1. (Written English), A.2. (Oral Communication) or A.3. (Critical Thinking). An exploration of philosophical questions about the universe, life, death, God, human beings, consciousness, explanation, meaning, purpose, and value.
  Both grading options.
- **PHIL 156. Philosophy of Rock, Rap, and Beyond (3)**
  Philosophy, Rock, Rap, Beyond
  Prerequisite: Any course from GE Foundation categories A.1 (Written English), A.2 (Oral Communication) or A.3 (Critical Thinking).
  An introduction to the philosophy of art through an analysis of popular music's history and current practice.
  Both grading options
- **CHEM 224B. Organic Chemistry II Recitation (1)**
  Ochem II Recitation
  Corequisite: CHEM 220B
  Problem solving session emphasizing principles learned in second semester organic chemistry.

Credit/No Credit grading only. May be repeated to a maximum of 3 units in different semesters. (Problem solving session 1 hr.) Does not count for General Education credit.

- **MATH 249. Linear Algebra and Differential Equations (3)**
  Lin Algebra & Diff Equations
  Prerequisite: MATH 123 with a grade of "C" or better. A course in computer programming is required with a grade of "C" or better."
  Elementary linear algebra and ordinary differential equations (ODEs): first and second order linear differential equations, linear systems of ODEs, phase portraits, graphical and numerical methods for differential equations. Matrix algebra, systems of linear equations, linear independence, determinants, eigenvalues and eigenvectors, Fourier and Laplace transforms. Implementation of algorithms in Matlab.
  Letter grade only (A-F) (Lecture 2 hours, laboratory/problem session 3 hours)

Articulation Requires Review—Fall 2017: If you would like to articulate your courses with the course listed below, please submit your current course outline for review. Your course outlines must match your data in ASSIST (prefix, course number, title, and units).

- **AH 111A. Foundation Art History I (3)** – Description change. Articulation wanted, course may meet goals.

Technical and Minimal Changes—Fall 2017: No review required:

- **ART 251A. Introduction to Ceramics: Handbuilding (3)** – Prerequisite change, no review necessary.
- **ART 251B. Introduction to Ceramics: Wheel Throwing** (3) – Prerequisite change, no review necessary.
- **THEA 101. Fundamentals of Script Analysis** (3) – Title change, no review necessary.
- **THEA 112. Beginning Voice and Speech for the Actor (3)** – Title/description change, no review necessary.
- **IS 233. Introduction to Computer Systems and Applications (3)** – Title change, no review necessary.
- **BME 201. Programming for Biomedical Engineers (3)** – Repetition removal, no review necessary.
- **CE 130. Surveying and Mapping (1)** – Corequisite change, no review required.
- **CECS 271. Introduction to Numerical Methods (3)** – Description change, no review necessary.
- **ENGR 296. Introduction to Biomedical Research Methods (3)** – Prerequisite change, no review necessary.
- **MAE 172. Engineering Design Graphics (2)** – Credit statement change, no review necessary.
- **MAE 272. Introduction to Manufacturing Processes (2)** – Prerequisite change, no review necessary.
- **BME 100. Introduction to Biomedical Engineering (1)** – Multiple offering statement change, no review necessary.
- **CHE 100. Introduction to Chemical Engineering (1)** – Multiple offering statement change, no review necessary.
- **CE 101. Introduction to Civil Engineering and Construction Engineering Management (1)** – Multiple offering statement change, no review necessary.
- **CECS 105. Introduction to Computer Engineering and Computer Science (1)** – Multiple offering statement change, no review necessary.
- **EE 200. Trends in Electrical Engineering (1)** – Multiple offering statement change, no review necessary.
- **MAE 101A. Introduction to Aerospace Engineering (1)** – Multiple offering statement change, no review necessary.
- **MAE 101B. Introduction to Mechanical Engineering (1)** – Multiple offering statement change, no review necessary.
- **HHS 207. Interdisciplinary Approaches to Health Disparities (3)** – Prerequisite change, no review

necessary.

- **HHS 296. Introduction to Research Methods (3)** – Title/prerequisite changes, no review necessary.
- **CLA 296. Introduction to Research Methods (3)** – Title/prerequisite changes, no review necessary.
- **CLSC 201. Ancient Greek Literature (3)** – Title change, no review necessary.
- **CLSC 202. Latin Literature (3)** – Title change, no review necessary.
- **JOUR 104. Social Media Communication (3)** – Title change, no review necessary.
- **JOUR 120. News Writing and Ethics (3)** – Title change, no review necessary.
- **JOUR 240. Multimedia Storytelling (3)** – Title change, no review necessary.
- **NSCI 296. Introduction to Biomedical Research Methods (3)** – Prerequisite change, no articulation review necessary.

New Prefix—Fall 2017 –

- There are no courses in this category this time.

Prefix Change – Fall 2017

- There are no courses in this category this time.

Articulation agreements end—Fall 2017 - for the following courses, articulation agreements will end.

- **THEA 144. Stage Makeup (3**) – course dropped.
- **KIN 243B. Winter Mountain Expedition Field (1)** – course dropped.
- **KIN 245B. Wilderness Water Expedition Field (1)** – course dropped.

We appreciate your assistance and concern for students. If you have any questions, please contact the CSU, Long Beach Articulation Office at (562) 985-7171.

Sincerely,

Maggie

Maggie McGlothin
Director, Academic Programs and Articulation