



# CALIFORNIA STATE UNIVERSITY, LONG BEACH

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## UNIVERSITY ARTICULATION OFFICE

March 13, 2015

### 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 in the attachments will be effective with the Fall 2015 semester.** Articulation agreements will not need any review unless specifically stated. The attachments are divided by colleges, i.e., COTA College of the Arts, COE College of Engineering, CHHS College of Health and Human Services, CLA College of Liberal Arts, and CNSM College of Natural Sciences and Mathematics.

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 2015:** If you have any lower division courses in lieu of or comparable to our courses that are listed below (articulation wanted), please submit your current course outlines for review.

- Art 227. History of Animation (3)  
Prerequisites: Completion of GE A1 requirement; sophomore standing  
Historical, theoretical and aesthetic developments of animation since its beginnings across cultures and within global contexts with consideration of cultural, social, political and technological influences.
- DANC 200. Ballet History in Western Culture (3)  
Prerequisites: Any GE Foundation Course.  
Historical survey of the cultural development of ballet from the Renaissance to the early 20th century in Europe and Russia, and until 1950 in the United States. (3 hours lecture)
- FEA 227. History of Animation (3)  
Prerequisite(s): Completion of GE A1 (Written Communication) requirement; sophomore standing  
Historical, theoretical and aesthetic developments of animation since its beginnings across cultures and within global contexts with consideration of cultural, social, political and technological influences.
- LST 111. Critical thinking and Public Education (3)  
Prerequisite: ENGL 100 or GE Composition (Area A1)  
Introduction to critical thinking; analysis of historical, contemporary and global views of public education. Development of seminar skills: preparation of analytical essays and oral presentations, examination of models and techniques of reasoning applied to issues in education
- CECS 229. Discrete Structures with Computing Applications II (3)

Prerequisites: MATH 123 and CECS 228 both with a Grade of "C" or better

This is the second course in a two-course sequence in computing applications of discrete structures. Topics include applications of computer arithmetic and matrices in computer systems. Programming assignments in Python will be provided

- EE186. Introduction to Programming and Applications for Electrical Engineers (3)

Prerequisite/Corequisite: ENGL100 or equivalent

Introduction to programming using the C language, with emphasis on electrical engineering applications. Variables, conditional control flow loops, functions and program structure, pointers and arrays, input/output processing. Introduction to embedded system applications and development platforms.

- KIN 201. Introduction to Kinesiology (3)

Prerequisites: None.

Survey of the discipline of kinesiology. Analysis of the knowledge base of the discipline and careers in physical activity professions. Focus is on the integrative nature of the discipline.

- GEOG 101. The Global Environment (3)

Prerequisites: One Foundation course

Introduction to the Earth's principal human-environmental relationships and biogeographic processes with a focus on how human actions impact the geography of living things from the local to the global scale

- SOC 270. Introduction to Research Methods (3)

Prerequisite: SOC 100 or SOC 142, SOC 250 or consent of the instructor.

Introduction to conducting original sociological research with a focus on techniques used to collect and analyze quantitative and qualitative data. Students learn how to apply these methods given research ideas and practice implementing various methods.

**Articulation Requires Review—Fall 2015:** If you have any articulation agreements (or would like to articulate your courses) with the courses listed below, please submit your current course outlines for review. Your course outlines must match your data in ASSIST (prefix, course number, title, and units).

- There are no courses in this category this time.

**Technical and Minimal Changes—Fall 2015:** No review required:

- AH 111A. Foundation Art History I - Minimal change. No articulation review necessary
- AH 111B. Foundation Art History II - Minimal change. No articulation review necessary
- AH 112. Foundation Art History: Latin American Arts and Architecture - Minimal change. No articulation review necessary
- AH 113A. Survey Asian Art: Early Sacred Cultures - Minimal change. No articulation review necessary
- AH 113B. Survey Asian Art: Later Traditions - Minimal change. No articulation review necessary
- AH 114. Foundation Art History: Arts of Africa, Oceania, and Indigenous North America - Minimal change. No articulation review necessary
- AH 116. Foundation Art History: Arts of Islamic Regions - Minimal change. No articulation review necessary
- Art 241. Introduction to Photography – Minimal change. No articulation review necessary.
- DANC 131 Introduction to Music for Dance - Minimal change. No articulation review necessary
- DANC 262 Pilates I - Minimal change. No articulation review necessary
- DESN 142 Beginning Space Planning - Minimal change. No articulation review necessary
- FEA 205 Film History - Minimal change. No articulation review necessary
- FEA 206 History of Broadcasting - Minimal change. No articulation review necessary
- FEA 299 Media Aesthetics - Minimal change. No articulation review necessary
- THEA 111 Theatre Arts Showcase - Minimal change. No articulation review necessary
- THEA 112 Beginning Voice and Speech for the Actor - Minimal change. No articulation review necessary
- THEA 142 Elementary Stagecraft - Minimal change. No articulation review necessary
- THEA 146 Costume Crafts - Minimal change. No articulation review necessary
- THEA 148 Stage Lighting - Minimal change. No articulation review necessary
- EE 202 Computer Methods Engineering - Minimal change. No articulation review necessary
- CRJU 110 Introduction to Justice Research, Writing, and Reasoning - Minimal change. No articulation review necessary
- KIN 218. Introduction to the Fitness Industry – Title change. No articulation review necessary
- ASAM 200. Asian American Interethnic Relations - Minimal change. No articulation review necessary
- ASAM 260 Introduction to Asian American Literature - Minimal change. No articulation review necessary
- CHLS 105. Identity and Assimilation in Chicano/Latino Life – Title change. No articulation review necessary

- necessary.
- PSY 220. Research Methods - Minimal change. No articulation review necessary
- BIOL 205. Human Biology - Minimal change. No articulation review necessary
- BIOL 207. Human Physiology - Minimal change. No articulation review necessary
- BIOL 208 Human Anatomy - Minimal change. No articulation review necessary
- BIOL 211. Introduction to Evolution and Diversity - Minimal change. No articulation review necessary
- BIOL 212. Introduction to Cell and Molecular Biology - Minimal change. No articulation review necessary
- BIOL 213. Introduction to Ecology and Physiology - Minimal change. No articulation review necessary
- Math 115 Calculus for Business – Units decreasing. No articulation review necessary

**New Prefix—Fall 2015 –**

- UDCP: Urban Dual Credential Program – courses are all upper division at this time.

**Articulation agreements end—Fall 2015** - for the following courses, articulation agreements will end.

- CECS 262 C for Embedded Programming - Title changed to Introduction to Embedded System Programming – Articulation ends per department.
- CRJU 220 Terrorism and the Criminal Justice System – course dropped
- SOC 260. Introduction to Data Analysis - 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,

Cathy Beane  
Director, Academic Programs and Articulation

CALIFORNIA STATE UNIVERSITY, LONG BEACH

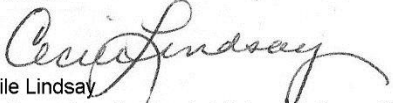
Office of the Vice Provost for Academic Affairs and  
Dean of Graduate Studies

December 19, 2014

**CERTIFICATION 15 - 01**

The following changes to the curriculum have completed the University review processes. New and changed courses will become effective Fall 2015 unless otherwise noted on the curriculum form. Changed program requirements will become effective Fall 2015.

Certified:

  
Cecile Lindsay  
Vice Provost for Academic Affairs and Dean of Graduate Studies

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**COLLEGE OF THE ARTS**

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: AH 111A. Foundation Art History I (3) unit at C – 1

**Items Changing:**

Prerequisite(s)/Corequisite(s): Completion/current enrollment in GE A1 (Written Communication) requirement.

**ARTICULATION** – Minimal change, no articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: AH 111B. Foundation Art History II (3) units at C - 1

**Items Changing:**

Prerequisite(s)/Corequisite(s): Completion/current enrollment in GE A1 (Written Communication) requirement.

**ARTICULATION** – Minimal change, no articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: AH 112. Foundation Art History: Latin American Arts and Architecture (3) units at C – 1

**Items Changing** Prerequisite(s)/Corequisite(s): Completion/current enrollment in GE A1 (Written Communication) requirement.

**ARTICULATION** – Minimal change, no articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: AH 113A. Survey Asian Art: Early Sacred Cultures (3) units at C - 1

**Items Changing:**

Prerequisite(s)/Corequisite(s): Completion/current enrollment in GE A1 (Written Communication) requirement.

**ARTICULATION** – Minimal change, no articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: AH 113B. Survey Asian Art: Later Traditions (3) units at C – 1

**Items Changing**

Prerequisite(s)/Corequisite(s): Completion/current enrollment in GE A1 (Written Communication) requirement.

**ARTICULATION** – Minimal change, no articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

**Current Course Information:** AH 114. Foundation Art History: Arts of Africa, Oceania, and Indigenous North America (3) units at C – 1

**Items Changing**

Prerequisite(s)/Corequisite(s): Completion/current enrollment in GE A1 (Written Communication) requirement.

**ARTICULATION** – Minimal change, no articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: AH 116. Foundation Art History: Arts of Islamic Regions (3) units at C - 1

**Items Changing**

Prerequisite(s)/Corequisite(s): Completion/current enrollment in GE A1 (Written Communication) requirement.

**ARTICULATION** – Minimal change, no articulation review necessary.

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**COURSE – NEW – LOWER-DIVISION/**

Art 227. History of Animation (3)

History of Animation

Prerequisites: Completion of GE A1 requirement; sophomore standing

Historical, theoretical and aesthetic developments of animation since its beginnings across cultures and within global contexts with consideration of cultural, social, political and technological influences.

Letter grade only (A-F). Same course as FEA 227. Not open for credit to students with credit in FEA 227.

3 units at C 2

**ARTICULATION** – Articulation wanted, transfer course may meet goals.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: Art 241. Introduction to Photography (3) units at C – 7

**Items Changing**

Prerequisite(s): One G.E. Foundation Course

Course Description: Introductory course satisfying a choice between requirements in the BA Studio Art

1250 BELLFLOWER BOULEVARD . LONG BEACH, CALIFORNIA 90840-2007 . 562/985-7171/1746/8221 . FAX 562/985-

(Students choose from a group of courses). Also satisfies requirements or choices in some BFA degrees. Fundamentals of digital photography: cameras, digital darkroom techniques, photographic vision, critical issues.

Letter grade only (A-F). Course fee and digital camera (DSLR) may be required. Information on fees related to this course can be found here. (6 hrs. lab.)

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**PROGRAM – CHANGE** Bachelor of Arts in Art Option in Studio Art (120 units)

**CURRENT CATALOG TEXT –**

Requirements Lower Division:

Take the following courses:

ART 101 Artists in Their Own Words (3)  
Prerequisite: None  
AH 111A Foundation Art History I (3)  
Prerequisites: One GE Foundation course  
AH 111B Foundation Art History II (3)  
Prerequisites: One GE Foundation course

Take 3 units of the following:  
100-level AH (3)

Take one of the following courses:  
ART 101 Artists in Their Own Words (3)  
Prerequisite: None  
DESN 300 Designers in Their Own Words (3)  
Prerequisites: AH 111A and AH 111B or consent of instructor.

Take all the following courses:  
ART 130 Foundation Two-Dimensional (3)  
Prerequisite: None  
ART 131 Foundation Three Dimensional (3)  
Prerequisite: None  
ART 181 Foundation Drawing (3)  
Prerequisite: None  
ART 184 Foundation Life Drawing (3)  
Prerequisite: ART 181

Take one of the following courses:  
ART 221 Shop Orientation (1)  
Prerequisite: None  
ART 254 Introduction to Wood (3)  
Prerequisites: ART 130, ART 131, AH 111A or AH 111B, or consent of instructor.

Take one of the following courses:  
ART 132 Foundation Color Theory (3)  
Prerequisite/Corequisite: ART 130  
ART 287 Introduction to Painting (3)  
Prerequisites: ART 130, ART 181

Take one course from the following:  
ART 132, ART 149, ART 223, ART 241, ART 270, ART 271, ART 287  
Take one course from the following:  
ART 251A, ART 251B, ART 254, ART 257, ART 261, ART 263, ART 265  
Take one course from the following:  
ART 132, ART 149, ART 223, ART 241, ART 251A, ART 251B, ART 254, ART 257, ART 261, ART 263, ART 265, ART 270, ART 271, ART 287

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**CHANGING INFORMATION:** New Catalog Text:

Requirements Lower Division:

Take the following courses:  
ART 101 Artists in Their Own Words (3)

Prerequisite: None  
AH 111A Foundation Art History I (3)  
Prerequisite/Corequisite: Completion/current enrollment in GE A1 requirement.  
AH 111B Foundation Art History II (3)  
Prerequisite/Corequisite: Completion/current enrollment in GE A1 requirement.

Take 3 units of the following:  
100-level AH (3)

Take one of the following courses:  
ART 101 Artists in Their Own Words (3)  
Prerequisite: None  
DESN 300 Designers in Their Own Words (3)  
Prerequisites: AH 111A and AH 111B or consent of instructor.

Take all the following courses:  
ART 130 Foundation Two-Dimensional (3)  
Prerequisite: None  
ART 131 Foundation Three Dimensional (3)  
Prerequisite: None  
ART 181 Foundation Drawing (3) Prerequisite: None  
ART 184 Foundation Life Drawing (3)  
Prerequisite: ART 181

Take one of the following courses:  
ART 221 Shop Orientation (1)  
Prerequisite: None  
ART 254 Introduction to Wood (3)  
Prerequisites: ART 130, ART 131, AH 111A or AH 111B, or consent of instructor.

Take one of the following courses:  
ART 132 Foundation Color Theory (3)  
Prerequisite/Corequisite: ART 130  
ART 287 Introduction to Painting (3)  
Prerequisites: ART 130, ART 181

Take one course from the following:  
ART 132, ART 149, ART 223, ART 241, ART 270, ART 271, ART 287, ART 291

Take one course from the following:  
ART 251A, ART 251B, ART 254, ART 257, ART 261, ART 263, ART 265

Take one course from the following:  
ART 132, ART 149, ART 223, ART 241, ART 251A, ART 251B, ART 254, ART 257, ART 261, ART 263, ART 265, ART 270, ART 271, ART 287, ART 291

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List changes:

Addition of Art 291 as an option in 2 places.

1. Take one course from the following: ART 132, ART 149, ART 223, ART 241, ART 270, ART 271, ART 287, ART 291.
2. Take one course from the following: ART 132, ART 149, ART 223, ART 241, ART 251A, ART 251B, ART 254, ART 257, ART 261, ART 263, ART 265, ART 270, ART 271, ART 287, ART 291

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**PROGRAM – CHANGE** Bachelor of Fine Arts Option in 3D Media (Fiber, Metal, or Wood) (132 units)

**CURRENT CATALOG TEXT –**

Option in 3-D Media (Fiber, Metal or Wood) (132 units) Students who fall below a GPA of 3.0 in upper division courses in their area for two consecutive semesters will be removed from this B.F.A.

Requirements  
Lower Division:

Take all of the following courses:

AH 111A Foundation Art History I (3)  
Prerequisites: One GE Foundation course  
AH 111B Foundation Art History II (3)  
Prerequisites: One GE Foundation course  
ART 130 Foundation Two Dimensional (3)  
Prerequisite: None  
ART 131 Foundation Three Dimensional (3)  
Prerequisite: None  
ART 181 Foundation Drawing (3)  
Prerequisite: None  
ART 263 Introduction to Sculpture/4D (3)  
Prerequisites: ART 131 or consent of instructor  
ART 287 Introduction to Painting (3)  
Prerequisites: ART 130, ART 181

For Fiber and Metals Specialization, take the following course:

ART 221 Shop Orientation (1)  
Prerequisite: None

For Wood Specialization Take:

ART 254 Introduction to Wood (3)  
Prerequisites: ART 130, ART 131; AH 111A or AH 111B; or consent of instructor

Take 3 units of the following:  
100-level AH

Take one of the following courses:

ART 251A Introduction to Beginning Ceramics: Hand building (3)  
Prerequisites/Corequisites: ART 131  
ART 251B Introduction to Beginning Ceramics: Wheel Throwing (3)  
Prerequisites/Corequisites: ART 131  
ART 254 Introduction to Wood (3)  
Prerequisites: ART 130, ART 131, AH 111A or AH 111B; or consent of instructor.  
ART 257 Introduction to Metals (3)  
Prerequisites: ART 130, ART 131; AH 111A or AH 111B  
ART 265 Introduction to Fiber (3)  
Prerequisites: ART 130, ART 131

Take one of the following courses:

ART 184 Foundation Life Drawing (3)  
Prerequisites: ART 181  
ART 261 Introduction to Life Sculpture (3)  
Prerequisite/Corequisite: ART 131 or ART 181; AH 111A or AH 111B, or consent of instructor.

Upper Division:

Take one of the following specializations:

Fiber

Take all of the following courses:

ART 316 Fiber: Pattern Design and Printing (3)  
Prerequisites: ART 130, ART 131, ART 287; AH 111A, AH 111B.  
ART 317 Fiber: Textile Dyeing (3)  
Prerequisites: ART 130, ART 131, ART 287; AH 111A, AH 111B.  
ART 328A Fiber and Mixed Media: Sculptural Forms (3)  
Prerequisites: ART 130, ART 131, AH 111A, AH 111B  
ART 388 Advanced Studies in Color (3)  
Prerequisites/Corequisites: ART 130, ART 287; AH 111A, AH 111B.  
ART 428A Fiber: Weaving, Dyeing, Woven Structures (3)  
Prerequisites: ART 130, ART 131; AH 111A, AH 111B.  
ART 430. Artist Books and Paper (3)  
Prerequisites: ART 130, ART 131; AH 111A, AH 111B  
ART 432 Fiber and Mixed Media: Advanced (3)  
Prerequisites: ART 130, ART 131, ART 181; ART 132 or ART 287; ART 317 or ART 328A; ART 428A or ART 430.  
ART 491B 3-D Media: Senior Project (1)  
Prerequisite: 3-D Media major or consent of instructor  
ART 499N Special Studies in Fiber and Mixed Media (3)

Prerequisite: 3-D Media major or consent of instructor

Take one of the following courses:  
ART 328B, ART 428B.

Take 9 units of AH

Take 6 units ART outside the specialization.

#### Metal

Take all of the following courses:  
ART 357A Metals and Jewelry (3)  
Prerequisites: ART 130, ART 131; AH 111A, AH 111B or consent of instructor  
ART 357B Metal and Jewelry Design (3)  
Prerequisite: ART 130, ART 131; AH 111A or AH 111B; or consent of instructor  
ART 358A Metalsmithing (3)  
Prerequisite: ART 357A  
ART 358B Intermediate Metalsmithing (3)  
Prerequisite: ART 357A  
ART 458A Adv Metalsmithing/Jewelry & Enameling (3)  
Prerequisites: ART 357B, ART 358B or consent of instructor  
ART 458B Adv Metalsmithing/Jewelry & Enameling (3)  
Prerequisites: ART 357B, ART 358B or consent of instructor  
ART 491B 3-D Media: Senior Project (1)  
Prerequisite: 3-D Media major or consent of instructor

Take 9 units from the following courses:  
ART 355, ART 356, ART 359A, ART 359B, or ART 499J

Take 9 units AH

Take 6 units ART outside the specialization

#### Wood

Take all of the following courses:  
ART 354A Intermediate Wood A (3)  
Prerequisites: ART 130, ART 131, ART 181; ART 221 or ART 254; AH 111A or AH 111B.  
ART 354B Intermediate Wood B (3)  
Prerequisites: ART 354A or consent of instructor  
ART 381 Intermediate Drawing (3)  
Prerequisites: ART 130, ART 181, ART 184; AH 111A, AH 111B  
ART 454A Advanced Wood (3)  
Prerequisites: ART 354A and ART 354B  
ART 454B Advanced Wood (3)  
Prerequisites: ART 354A and ART 354B  
ART 491B 3-D Media: Senior Project (1)  
Prerequisite: 3-D Media major or consent of instructor

Take the following course for 9 units:  
ART 499B Special Studies in Wood (9)  
Prerequisite: ART 354B or consent of instructor

Take 9 units of AH

Take 6 units of ART outside the specialization

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#### **CHANGING INFORMATION**

New Catalog Text

#### Requirements

Lower Division:

Take all of the following courses:  
AH 111A Foundation Art History I (3)

Prerequisite/Corequisite: Completion/current enrollment in GE A1 (Written Communication) requirement.  
 AH 111B Foundation Art History II (3)  
 Prerequisite/Corequisite: Completion/current enrollment in GE A1 (Written Communication) requirement.  
 ART 130 Foundation Two Dimensional (3)  
 Prerequisite: None  
 ART 131 Foundation Three Dimensional (3) Prerequisite: None  
 ART 181 Foundation Drawing (3)  
 Prerequisite: None  
 ART 263 Introduction to Sculpture/4D (3)  
 Prerequisites: ART 131 or consent of instructor  
 ART 287 Introduction to Painting (3)  
 Prerequisites: ART 130, ART 181

## Wood

Take all of the following courses:

- ART 353 Drafting for Object Makers (3)  
 Prerequisites: ART 130, ART 131, ART 181; ART 221 or ART 254; AH 111B or consent of instructor.
- ART 354A Intermediate Wood A (3)  
 Prerequisites: ART 130, ART 131, ART 181; ART 221 or ART 254; AH 111A or AH 111B.
- ART 354B Intermediate Wood B (3)  
 Prerequisites: ART 354A or consent of instructor
- ART 381 Intermediate Drawing (3)  
 Prerequisites: ART 130, ART 181, ART 184; AH 111A, AH 111B
- ART 454A Advanced Wood (3)  
 Prerequisites: ART 354A and ART 354B
- ART 454B Advanced Wood (3)  
 Prerequisites: ART 354A and ART 354B
- ART 491B 3-D Media: Senior Project (1)  
 Prerequisite: 3-D Media major or consent of instructor

Take the following course for 9 units:

- ART 499B Special Studies in Wood (9)  
 Prerequisite: ART 354B or consent of instructor

Take 9 units of AH

Take 6 units of ART outside the specialization

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List changes:

1. Changing pre-reqs for AH 111A and AH 111B
2. Addition of Art 353 Drafting for Object Makers (3) (new course)

Revised Roadmap Attached

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**PROGRAM – CHANGE** Bachelor of Fine Arts Option in Art Photography (132 units)

### **CURRENT CATALOG TEXT –**

Option in Art Photography (132 units)

B.F.A. students who fall below a GPA of 3.0 in upper division courses in Photography for two consecutive semesters will be removed from this BFA program.

### Requirements

#### Lower Division:

Take all the following courses

- AH 111A Foundation Art History I (3)  
 Prerequisites: One GE Foundation course
- AH 111B Foundation Art History II (3)  
 Prerequisites: One GE Foundation course

Take 3 units of the following:

100-level AH

Take 3 units of the following:

ART 101 Artists in Their Own Words (3)  
Prerequisite: None

Take all the following courses:

ART 130 Foundation Two Dimensional (3)

Prerequisite: None

ART 131 Foundation Three Dimensional (3)

Prerequisite: None

ART 149 Introduction to Computer Art (3)

Prerequisites: ART 130

ART 181 Foundation Drawing (3)

Prerequisite: None

ART 241 Introduction to Photography (3)

Prerequisite: None

Upper Division:

Take all the following courses:

AH 400 19th Century Photography (3)

Prerequisites: AH 111B or consent of instructor

ART 340 Intermediate Photography (3)

Prerequisites: ART 130, ART 181, ART 241; AH 111A, AH 111B

ART 342A Color Photography (3)

Prerequisite/Corequisite: ART 340.

ART 406A Digital Imagery for the Arts (3)

Prerequisites: ART 149, ART 340, or consent of instructor

ART 406B Advanced Digital Imagery for the Arts (3)

Prerequisites: ART 406A.

ART 414 Documentary Photography (3)

Prerequisites: ART 340, ART 444, or consent of instructor

ART 444 Advanced Black and White Photography (3)

Prerequisite: ART 340

ART 447A Photography Studio Specialties (3)

Prerequisites: ART 340

ART 449 Experimental Practices in Photography (3)

Prerequisites: ART 340

ART 473 Seminar in Photo-Based Art (3)

Prerequisite: for ART 473: ART 406A, or ART 444, or consent of instructor.

ART 491C Senior Project (1)

Prerequisite: None

ART 499V Special Studies in Art Photography (3)

Prerequisites: ART 406A, or ART 444, or consent of instructor

Take 3 units from the following courses:

ART 436A, ART 447B, ART 475, ART 450A

Take 3 units from the following courses:

AH 438, AH 439, AH 441

Take 3 units upper-division AH

Take 6 units ART outside specialization (lower or upper division)

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### **CHANGING INFORMATION:**

New Catalog Text:

Option in Art Photography (132 units)

B.F.A. students who fall below a GPA of 3.0 in upper division courses in Photography for two consecutive semesters will be removed from this BFA program.

Requirements

Lower Division:

Take all the following courses:

AH 111A Foundation Art History I (3)

Prerequisite/Corequisite: Completion/current enrollment in GE A1 (Written Communication) requirement.  
AH 111B Foundation Art History II (3)  
Prerequisite/Corequisite: Completion/current enrollment in GE A1 (Written Communication) requirement.

Take 3 units of the following:  
100-level AH

Take 3 units of the following:  
ART 101 Artists in Their Own Words (3)  
Prerequisite: None

Take all the following courses:  
ART 130 Foundation Two Dimensional (3)  
Prerequisite: None  
ART 131 Foundation Three Dimensional (3)  
Prerequisite: None  
ART 149 Introduction to Computer Art (3)  
Prerequisites: ART 130  
ART 181 Foundation Drawing (3)  
Prerequisite: None  
ART 241 Introduction to Photography (3)  
Prerequisite(s): One G.E. Foundation Course

Upper Division:  
Take all the following courses:  
AH 400 19th Century Photography (3)  
Prerequisites: AH 111B or consent of instructor  
ART 340 Intermediate Photography (3)  
Prerequisites: ART 130, 181, 241 and AH 111A , or 111B.  
ART 342A Color Photography (3)  
Prerequisites: ART 130, ART 181, ART 241, and AH 111A or AH 111B.  
ART 406A Digital Imagery for the Arts (3)  
Prerequisites: ART 149, ART 340, or consent of instructor  
ART 414 Documentary Photography (3)  
Prerequisites: ART 340, ART 444, or consent of instructor  
ART 444 Advanced Black and White Photography (3)  
Prerequisite: ART 340  
ART 447A Photography Studio Specialties (3)  
Prerequisites: ART 340  
ART 447B Advanced Studio Lighting (3)  
Prerequisites: ART 241, ART 340, and ART 447A  
ART 448 The Moving Image (3)  
Prerequisites: ART 406A or consent of instructor  
ART 449 Experimental Practices in Photography (3)  
Prerequisites: ART 340  
ART 473 Seminar in Photo-Based Art (3)  
Prerequisite: for ART 473: ART 406A, or ART 444, or consent of instructor.  
ART 491C Senior Project (1)  
Prerequisite: None  
ART 499V Special Studies in Art Photography (3)  
Prerequisites: ART 406A, or ART 444, or consent of instructor

Take 3 units from the following courses:  
AH 438, AH 439, AH 441

Take 3 units upper-division AH

Take 6 units ART outside specialization (lower or upper division)

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List changes:

1. Removal of Art 406B
2. addition of Art 447B
3. addition of new course Art 448
4. remove "Take 3 units from the following courses: Art 436A, ART 447B, ART 475, Art 450A.
5. Changing the pre-reqs of AH 111A, and AH 111B, Art 241, 340 and 342A

## **PROGRAM – CHANGE**

Program Name: Bachelor of Fine Arts Option in Illustration (132 units)

### **CURRENT CATALOG TEXT – INCLUDE ONLY THE INFORMATION THAT IS CHANGING**

(The most recent catalog text can be found at [www.csulb.edu/catalog/](http://www.csulb.edu/catalog/). Please copy and paste this link into your web browser and navigate to the proper program.)

#### **Bachelor of Fine Arts - Option in Illustration (132 units)**

The Bachelor of Fine Arts degree is offered for the student eventually seeking a Master of Fine Arts degree, the position of a professional artist or designer, and for teaching studio art within a selected specialization. The B.F.A. degree program is demanding, requiring high quality performance in order to develop the professional competence of talented students toward successful entrance into the professional art field. To remain a B.F.A. candidate, a successful student must maintain a specified minimum GPA in their discipline. See Program Options for specific GPA requirements.

#### **Option in Illustration (132 units)**

Students who fall below a GPA of 3.0 in upper division courses in Illustration/Animation for two consecutive semesters will be removed from this B.F.A. program.

#### **Requirements**

##### **Lower Division:**

Take all the following courses:

AH 111A Foundation Art History I (3)

Prerequisites: One GE Foundation course

AH 111B Foundation Art History II (3)

Prerequisites: One GE Foundation course

ART 130 Foundation Two Dimensional (3)

Prerequisite: None

ART 131 Foundation Three Dimensional (3)

Prerequisite: None

ART 181 Foundation Drawing (3)

Prerequisite: None

ART 184 Foundation Life Drawing (3)

Prerequisites: ART 181

ART 271 Introduction to Rendering (3)

Prerequisite: ART 130, ART 181.

ART 287 Introduction to Painting (3)

Prerequisites: ART 130, ART 181

Take (3) units of the following:

100-level AH

For Illustration Track also take:

ART 223 Introduction to Typography (3)

Prerequisites: For Art majors: ART 130, ART 181. For Design majors: DESN 120A and DESN 132A

For Animation Track also take:

ART 291 Introduction to Animation (3)

Prerequisites: ART 130, ART 181

##### **Upper Division:**

Take all of the following:

ART 371A Illustration (3)

Prerequisites/Corequisites: ART 130, ART 131, ART 181, ART 184, ART 287; AH 111A, AH 111B.

ART 372 Anatomy for Artists (3)

Prerequisites: ART 130, ART 131, ART 181, ART 184; AH 111A, AH 111B.

ART 491E Illustration/Animation Senior Project (1)

Prerequisites: Senior Illustration/Animation Major

ART 311 Writing about Art (3)

Prerequisites: Art Major or consent of instructor. GE Foundation completed, upper division standing. You must have scored 11 or higher on the GVAR Placement Examination or completed the necessary portfolio course that is a prerequisite for a GVAR Writing Intensive Capstone.

Take 6 units AH

## Animation Track

Take all the following courses:

ART 390 Drawing: Figures in Context (3)

Prerequisites: ART 371A or consent of instructor

ART 391 Animation 1 (3)

Prerequisites: ART 130, ART 181. For Animation Track Majors: ART 291. Prerequisites/Corequisites: ART 131, ART 184, ART 287, ART 371A; AH 111A, AH 111B.

ART 472 Storyboarding for Film and Television (3)

Prerequisites: ART 130, ART 181, ART 184, ART 271 or consent of instructor

ART 499E Special Studies in Animation (3)

Prerequisite: Illustration /Animation Major or consent of instructor

Take 3 units from the following courses:

ART 392 Animation 2 (3)

Prerequisite: ART 391, Prerequisite/Corequisite: ART 371A.

ART 476 Experimental Animation 1 (3)

Prerequisites: ART 130, ART 131, ART 181, ART 184

Take 3 units from the following courses:

ART 393 Character Design (3)

Prerequisites/corequisites: ART 371A or consent of instructor

ART 418 Visual Development (3)

Prerequisites: ART 371B or ART 391 or consent of instructor

Take 6 units from the following courses:

ART 392, ART 393, ART 426, ART 476, ART 482

Take 9 units from the following courses:

ART 371B, ART 373, ART 382, ART 383, ART 384, ART 385, ART 416, ART 417, ART 418, ART 427, ART 478, ART 499E

## Illustration Track

Take all the following courses:

ART 371B Illustration (3)

Prerequisite: ART 371A. Prerequisites/Corequisites: ART 223, 271

ART 382 Production for Fine Arts (3)

Prerequisites: ART 223 or consent of instructor

ART 383 Life Painting (3)

Prerequisites: ART 130, ART 181, ART 184, ART 287; AH 111A, AH 111B

ART 471A Advanced Illustration (3)

Prerequisite: ART 371B

ART 471B Advanced Illustration (3)

Prerequisite: ART 471A

ART 482 Sequential Imagery (3)

Prerequisite: For Illustration Track majors: ART 223, ART 371B. For Animation Track majors: ART 371A.

Take one of the following courses:

ART 374A Biomedical Rendering (3)

Prerequisites: ART 130, ART 184, ART 287; AH 111A, AH 111B; or consent of instructor

ART 499F Special Studies in Illustration (3)

Prerequisite: Illustration major or consent of instructor

Take 9 units from the following courses:

ART 321, ART 373, ART 385, ART 391, ART 418, ART 472, ART 476, ART 483

Take 3 units ART outside the specialization

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## CHANGING INFORMATION

New Catalog Text:

Bachelor of Fine Arts - Option in Illustration/Animation (132 units)

The Bachelor of Fine Arts degree is offered for the student eventually seeking a Master of Fine Arts degree, the position of a professional artist or designer, and for teaching studio art within a selected specialization.

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The B.F.A. degree program is demanding, requiring high quality performance in order to develop the professional competence of talented students toward successful entrance into the professional art field. To remain a B.F.A. candidate, a successful student must maintain a specified minimum GPA in their discipline. See Program Options for specific GPA requirements.

Option in Illustration/Animation (132 units)

Students who fall below a GPA of 3.0 in upper division courses in Illustration/Animation for two consecutive semesters will be removed from this B.F.A. program.

Requirements

Lower Division:

Take all the following courses:

AH 111A Foundation Art History I (3)

Prerequisite/Corequisite: Completion/current enrollment in GE A1 requirement.

AH 111B Foundation Art History II (3)

Prerequisite/Corequisite: Completion/current enrollment in GE A1 requirement.

ART 130 Foundation Two Dimensional (3)

Prerequisite: None

ART 131 Foundation Three Dimensional (3)

Prerequisite: None

ART 181 Foundation Drawing (3)

Prerequisite: None

ART 184 Foundation Life Drawing (3)

Prerequisites: ART 181

ART 271 Introduction to Rendering (3)

Prerequisite: ART 130, ART 181.

ART 287 Introduction to Painting (3)

Prerequisites: ART 130, ART 181

Take (3) units of the following:

100-level AH

For Illustration Track also take:

ART 223 Introduction to Typography (3)

Prerequisites: For Art majors: ART 130, ART 181. For Design majors: DESN 120A and DESN 132A

For Animation Track also take:

ART 291 Introduction to Animation (3)

Prerequisites: ART 130, ART 181

Upper Division:

Take all of the following:

ART 371A Illustration (3)

Prerequisites/Corequisites: ART 130, ART 131, ART 181, ART 184, ART 287; AH 111A, AH 111B.

ART 372 Anatomy for Artists (3)

Prerequisites: ART 130, ART 131, ART 181, ART 184; AH 111A, AH 111B.

ART 491E Illustration/Animation Senior Project (1)

Prerequisites: Senior Illustration/Animation Major. Pre/co-requisites: For Illustration Track Majors:

ART 471B. For Animation Track Majors: ART 499E.

ART 311 Writing about Art (3)

Prerequisites: Art Major or consent of instructor. GE Foundation completed, upper division standing. You must have scored 11 or higher on the GVAR Placement Examination or completed the necessary portfolio course that is a prerequisite for a GVAR Writing Intensive Capstone.

Take 6 units AH

Animation Track

Take all the following courses:

ART 390 Drawing: Figures in Context (3)

Prerequisites: ART 371A or consent of instructor

ART 391 Animation 1 (3)

Prerequisites: ART 130, ART 181, ART 291 or consent of instructor. Prerequisites/Corequisites: ART 131, ART 184, ART 287; AH 111A, AH 111B.

ART 472 Storyboarding for Film and Television (3)

Prerequisites: ART 130, ART 181, ART 184, ART 271 or consent of instructor

ART 499E Special Studies in Animation (3)

Prerequisite: Illustration /Animation Major or consent of instructor

Take 3 units from the following courses:

ART 392 Animation 2 (3)

Prerequisite: ART 391.

ART 476 Experimental Animation 1 (3)

Prerequisites: ART 130, ART 131, ART 181, ART 184

Take 3 units from the following courses:

ART 393 Character Design (3)

Prerequisites/corequisites: ART 371A or consent of instructor

ART 418 Visual Development (3)

Prerequisites: ART 371B or ART 391 or consent of instructor

Take 6 units from the following courses:

ART 392, ART 393, ART 426, ART 476, ART 482

Take 9 units from the following courses:

ART 371B, ART 373, ART 382, ART 383, ART 384, ART 385, ART 416, ART 417, ART 418, ART 427, ART 478, ART 499E

#### Illustration Track

Take all the following courses:

ART 371B Illustration (3)

Prerequisite: ART 371A. Prerequisites/Corequisites: ART 223 or 291 and ART 271

ART 382 Production for Fine Arts (3)

Prerequisites: ART 223 or consent of instructor

ART 383 Life Painting (3)

Prerequisites: ART 130, ART 181, ART 184, ART 287; AH 111A, AH 111B

ART 471A Advanced Illustration (3)

Prerequisite: ART 371B

ART 471B Advanced Illustration (3)

Prerequisite: ART 471A

ART 482 Sequential Imagery (3)

Prerequisite: For Illustration Track majors: ART 223, ART 371B. For Animation Track majors: ART 371A.

Take one of the following courses:

ART 374A Biomedical Rendering (3)

Prerequisites: ART 130, ART 184, ART 287; AH 111A, AH 111B; or consent of instructor

ART 499F Special Studies in Illustration (3)

Prerequisite: Illustration major or consent of instructor

Take 9 units from the following courses:

ART 321, ART 373, ART 385, ART 391, ART 418, ART 472, ART 476, ART 483

Take 3 units ART outside the specialization.

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List changes:

1. Option name change to Illustration/Animation – approved by Cecile Lindsay.
2. Changing the pre-reqs of AH 111A, AH 111B, Art 371B, ART 391, ART 392, and ART 491E

No revised Roadmap Necessary

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#### **PROGRAM – CHANGE** Bachelor of Fine Arts Option in Sculpture (132 units)

##### **CURRENT CATALOG TEXT –**

Option in Sculpture (132 units)

Students who fall below a GPA of 3.0 in upper division courses in Sculpture for two consecutive semesters will be removed from this B.F.A. program.

##### Requirements

Take all of the following courses:

AH 111A Foundation Art History I (3)

Prerequisites: One GE Foundation course

AH 111B Foundation Art History II (3)  
Prerequisites: One GE Foundation course  
ART 101 Artists in Their Own Words (3)  
Prerequisite: None  
ART 130 Foundation Two Dimensional (3)  
Prerequisite: None  
ART 131 Foundation Three Dimensional (3)  
Prerequisite: None  
ART 221 Shop Orientation (1)  
Prerequisite: None  
ART 261 Introduction to Life Sculpture (3)  
Prerequisite/Corequisite: ART 131 or ART 181; AH 111A or AH 111B, or consent of instructor.  
ART 263 Introduction to Sculpture/4D (3)  
Prerequisites: ART 131 or consent of instructor.

Take 3 units of the following:  
100-level AH

Take one of the following courses:  
ART 149 Foundation Computer Art (3)  
Prerequisites: ART 130  
ART 241 Introduction to Photography (3)  
Prerequisites: None

Take one of the following courses:  
ART 181 Foundation Drawing (3)  
Prerequisite: None  
ART 184 Foundation Life Drawing (3)  
Prerequisites: ART 181

Take 6 units from the following courses:  
ART 132, ART 149, ART 181, ART 184, ART 223, ART 241, ART 251A, ART 251B, ART 265, ART 270,  
ART 271, ART 287

Upper Division:

Take 3 units from the following courses:  
ART 311 Writing about Art (3)  
Prerequisites: Art Major or consent of instructor. GE Foundation completed, upper division standing. You must have scored 11 or higher on the GVAR Placement Examination or completed the necessary portfolio course that is a prerequisite for a GVAR Writing Intensive Capstone.  
ART 333 Global Art Scenes (3)  
Prerequisites: Completion of GE Foundation and Upper Division standing  
Take all of the following courses:

ART 360A Sculpture/4D: Intermediate (3)  
Prerequisites: ART 130, ART 131, ART 263; AH 111A or AH 111B, or consent of instructor.  
ART 360B Sculpture/4D: Intermediate (3)  
Prerequisites: ART 360A or consent of instructor  
ART 363A Sculpture/4D: Fabrication Lab A (3)  
Prerequisites/Corequisites: ART 131; AH 111A or AH 111B, or consent of instructor.  
ART 474 Seminar in Sculpture and Time-Based Art (3)  
Prerequisites: ART 261 or ART 263, or consent of instructor.  
ART 491F Sculpture/4D Senior Project (1)  
Prerequisites: Senior Sculpture major; consent of instructor

Take 6 units from the following courses:  
AH 438, AH 439, AH 441

Take 6 units from the following courses:  
ART 354A, ART 361, ART 363B, ART 363C, ART 364, ART 367A, ART 367B, ART 436A, ART 436B, ART 450A, ART 450B, ART 460A, ART 460B, ART 461, ART 499O.

Take 3 units of any upper division ART course.

Track A

Take all of the following Sculpture/4D courses:

ART 367A Sculpture/4D: Mold Making Lab (3)  
Prerequisites: ART 130, ART 131; AH 111A or AH 111B.  
ART 367B Sculpture/4D: Foundry Lab (3)  
Prerequisites: ART 130, ART 131; AH 111A or AH 111B, or consent of instructor.  
ART 363B Sculpture/4D: Fabrication Lab B (3)  
Prerequisite: ART 363A or consent of instructor.

#### Track B

Take all of the following Sculpture/4D courses:

ART 364 Sculpture/4D: Electronics, Mechanics, Kinetics (3)  
Prerequisites: AH 111A, AH 111B; ART 130, ART 131; ART 261 or ART 263; or consent of instructor.  
ART 436A Video Art (3)  
Prerequisites: None  
ART 450A Sculpture/4D: Intermedia/New Genres (3)  
Prerequisites: ART 241 or ART 263, or consent of instructor.

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#### CHANGING INFORMATION

New Catalog Text:  
Option in Sculpture (132 units)  
Students who fall below a GPA of 3.0 in upper division courses in Sculpture for two consecutive semesters will be removed from this B.F.A. program.

#### Requirements

Take all of the following courses:

- AH 111A Foundation Art History I (3)  
Prerequisite/Corequisite: Completion/current enrollment in GE A1 (Written Communication) requirement.
- AH 111B Foundation Art History II (3)  
Prerequisite/Corequisite: Completion/current enrollment in GE A1 (Written Communication) requirement.
- ART 101 Artists in Their Own Words (3)  
Prerequisite: None
- ART 130 Foundation Two Dimensional (3)  
Prerequisite: None
- ART 131 Foundation Three Dimensional (3)  
Prerequisite: None
- ART 221 Shop Orientation (1)  
Prerequisite: None
- ART 261 Introduction to Life Sculpture (3)  
Prerequisite/Corequisite: ART 131 or ART 181; AH 111A or AH 111B, or consent of instructor.
- ART 263 Introduction to Sculpture/4D (3)  
Prerequisites: ART 131 or consent of instructor.

Take 3 units of the following:

- 100-level AH

Take one of the following courses:

- ART 149 Foundation Computer Art (3)  
Prerequisites: ART 130
- ART 241 Introduction to Photography (3)  
Prerequisites: ART 130, 181

Take one of the following courses:

- ART 181 Foundation Drawing (3)  
Prerequisite: None
- ART 184 Foundation Life Drawing (3)  
Prerequisites: ART 181

Take 6 units from the following courses:

- ART 132, ART 149, ART 181, ART 184, ART 223, ART 241, ART 251A, ART 251B, ART 265, ART 270, ART 271, ART 287

#### Upper Division:

Take 3 units from the following courses:

- ART 311 Writing about Art (3)  
Prerequisites: Art Major or consent of instructor. GE Foundation completed, upper division standing. You

must have scored 11 or higher on the GWAR Placement Examination or completed the necessary portfolio course that is a prerequisite for a GWAR Writing Intensive Capstone.

ART 333 Global Art Scenes (3)

Prerequisites: Completion of GE Foundation and Upper Division standing

Take all of the following courses:

- ART 360A Sculpture/4D: Intermediate (3)

Prerequisites: ART 130, ART 131, ART 263; AH 111A or AH 111B, or consent of instructor.

- ART 360B Sculpture/4D: Intermediate (3)

Prerequisites: ART 360A or consent of instructor

- ART 363A Sculpture/4D: Fabrication Lab A (3)

Prerequisites/Corequisites: ART 131; AH 111A or 111B, or consent of instructor.

- ART 474 Seminar in Sculpture and Time-Based Art (3)

Prerequisites: ART 261 or 263, or consent of instructor.

- ART 491F Sculpture/4D Senior Project (1)

Prerequisites: Senior Sculpture major; consent of instructor

Take 6 units from the following courses:

- AH 438, AH 439, AH 441

Take 6 units from the following courses:

ART 354A, ART 361, ART 363B, ART 363C, ART 364, ART 367A, ART 367B, ART 436A, ART 436B, ART 450A, ART 450B, ART 460A, ART 460B, ART 461, ART 499O.

Take 3 units of any upper division ART course.

#### Track A

Take 3 of the following Sculpture/4D courses:

- ART 363B Sculpture/4D: Fabrication Lab B (3)

Prerequisite: ART 131; AH 111A or AH 111B, or consent of instructor.

- ART 363C Digital Fabrication Lab (3)

Prerequisite: ART 131; AH 111A or AH 111B, or consent of instructor.

- ART 367A Sculpture/4D: Mold Making Lab (3)

Prerequisites: ART 130, ART 131; AH 111A or AH 111B.

- ART 367B Sculpture/4D: Foundry Lab (3)

Prerequisites: ART 130, ART 131; AH 111A or AH 111B, or consent of instructor.

#### Track B

Take 3 of the following Sculpture/4D courses;

- ART 363C Digital Fabrication Lab (3)

Prerequisite: ART 131; AH 111A or AH 111B, or consent of instructor.

- ART 364 Sculpture/4D: Electronics, Mechanics, Kinetics (3)

Prerequisites: AH 111A, AH 111B; ART 130, ART 131; ART 261 or ART 263; or consent of instructor.

- ART 436A Video Art (3)

Prerequisites: None

- ART 450A Sculpture/4D: Intermedia/New Genres (3)

Prerequisites: ART 241 or 263, or consent of instructor.

\*\*\*\*\*  
List changes:

1. Change 'take all' to 'take 3 of the following'
2. addition of Art 363C as a choice for Track A and Track B
3. Art 363C title change and pre-req /co-req change
4. Art 363B pre-req /co-req change
5. Changing the pre/co reqs of AH 111A and AH 111B

Revised Roadmap Attached  
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#### **COURSE – NEW – LOWER DIVISION**

DANC 200. Ballet History in Western Culture (3)

Prerequisites: Any GE Foundation Course.

Historical survey of the cultural development of ballet from the Renaissance to the early 20th century in

Europe and Russia, and until 1950 in the United States. (3 hours lecture)  
Letter grade only (A-F).

3 units @ C-2

Articulation wanted, transfer course may meet goals.

=====

#### **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: DANC 131 Introduction to Music for Dance 2 @ C-7

##### **Items Changing**

(Prerequisite(s): Dance Major or Minor

ARTICULATION – Minimal change, no articulation review necessary.

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#### **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: DANC 262 Pilates I 1 @ C-5, 2 @ C-7

##### **Items Changing**

Prerequisite(s): Dance Major or Minor, DANC 260; or consent of instructor

ARTICULATION – Minimal change, no articulation review necessary.

=====

#### **PROGRAM – CHANGE: BACHELOR OF ARTS IN DANCE**

##### **CURRENT CATALOG TEXT –**

Take one of the following courses:

DANC 470 Dance Pedagogy (3)

Prerequisites: Upper division standing, or consent of instructor.

DANC 475 Dance for Children (3)

Prerequisites: Upper division standing, or consent of instructor.

\*\*\*\*\*

##### **CHANGING INFORMATION:**

New Catalog Text:

Take one of the following courses:

DANC 470A Dance Pedagogy (3)

Prerequisites: Upper division standing, or consent of instructor.

DANC 470B Ballet Pedagogy (3)

Prerequisites: Upper division standing, or consent of instructor.

DANC 475 Dance for Children (3)

Prerequisites: Upper division standing, or consent of instructor.

\*\*\*\*\*

List changes: (all changes must be delineated in the text box below):

Change DANC 470 to DANC 470A.

Add new course DANC 470B Ballet Pedagogy (3) Prerequisites: Upper division standing, or consent of instructor.

No revised Roadmap Necessary

=====

#### **PROGRAM – CHANGE BACHELOR OF ARTS IN DANCE OPTION IN DANCE SCIENCE**

##### **CURRENT CATALOG TEXT –**

Theory (40 units):

Take all the following courses:

- DANC 100 Orientation to Dance (1)

Prerequisite: Dance Major or Minor. Corequisite: DANC 152 or DANC 154.

- DANC 131 Introduction to Music (2)

Prerequisites: None

- DANC 161 Body Placement (2)

Prerequisites: Open to Dance Majors and Minors.

- DANC 260 Functional Anatomy for the Dancer (3)

Prerequisites: DANC 161 or consent of the instructor.

- DANC 261 Anatomy with Clay Laboratory (1)

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Prerequisites: DANC 161 or consent of the instructor. Corequisites: DANC 260 or consent of the instructor.

- DANC 262 Pilates I (3)

Prerequisites: DANC 260 or BIOL 208.

- DANC 362 Pilates II (2)

Prerequisites: DANC 262 or consent of instructor.

- DANC 442 Dance and Social Identity in the U.S. (3)

Prerequisites: None

- DANC 470 Dance Pedagogy (3)

Prerequisites: Upper division standing, or consent of instructor.

- BIOL 207 Human Physiology (4)

Prerequisites: GE Foundation requirements.

- BIOL 208 Human Anatomy (4)

Prerequisites: GE Foundation requirements.

- KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour lab with grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- PSY 100 General Psychology (3)

Prerequisite/Corequisite: GE A1 requirement.

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### **CHANGING INFORMATION:**

New Catalog Text:

Theory (40 units):

Take all the following courses:

- DANC 100 Orientation to Dance (1)

Prerequisite: Dance Major or Minor. Corequisite: DANC 152 or DANC 154.

- DANC 131 Introduction to Music (2)

Prerequisites: None

- DANC 161 Body Placement (2) Prerequisites: Open to Dance Majors and Minors.

- DANC 260 Functional Anatomy for the Dancer (3)

Prerequisites: DANC 161 or consent of the instructor.

- DANC 261 Anatomy with Clay Laboratory (1)

Prerequisites: DANC 161 or consent of the instructor. Corequisites: DANC 260 or consent of the instructor.

- DANC 262 Pilates I (3)

Prerequisites: DANC 260 or BIOL 208.

- DANC 362 Pilates II (2)

Prerequisites: DANC 262 or consent of instructor.

- DANC 442 Dance and Social Identity in the U.S. (3)

Prerequisites: None

- BIOL 207 Human Physiology (4)

Prerequisites: GE Foundation requirements.

- BIOL 208 Human Anatomy (4)

Prerequisites: GE Foundation requirements.

- KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour lab with grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- PSY 100 General Psychology (3)

Prerequisite/Corequisite: GE A1 requirement.

Select one of the following courses:

- DANC 470A Dance Pedagogy (3)

Prerequisites: Upper division standing, or consent of instructor.

- DANC 470B Ballet Pedagogy (3)

Prerequisites: Upper division standing, or consent of instructor.

\*\*\*\*\*

List changes: (all changes must be delineated in the text box below):

Remove DANC 470 Dance Pedagogy.

Add DANC 470A Dance Pedagogy and DANC 470B Ballet Pedagogy as a selection of the Theory prerequisites units.

No revised Roadmap Necessary

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## **PROGRAM – CHANGE BACHELOR OF FINE ARTS IN DANCE**

### **CURRENT CATALOG TEXT –**

Theory (29 units):

Take all the following courses:

- DANC 100 Orientation to Dance (1)

Prerequisite: Dance Major or Minor. Corequisite: DANC 152 or DANC 154.

- DANC 131 Introduction to Music (2)

Prerequisites: None

- DANC 161 Body Placement (2)

Prerequisites: Open to Dance Majors and Minors.

- DANC 260 Functional Anatomy for the Dancer (3)

Prerequisites: DANC 161 or consent of the instructor.

- DANC 261 Anatomy with Clay Laboratory (1)

Prerequisites: DANC 161 or consent of the instructor. Corequisites: DANC 260 or consent of the instructor.

- DANC 262 Pilates I (3)

Prerequisites: DANC 260 or BIOL 208.

- DANC 342 Global Cultures and Dance Traditions (3)

Prerequisites: None

- DANC 442 Dance and Social Identity in the U.S. (3)

Prerequisites: None

- DANC 445 Movement Analysis (3)

Prerequisites: Open to Dance Majors and Minors only.

- DANC 470 Dance Pedagogy (3)

Prerequisites: Upper division standing, or consent of instructor.

- DANC 498 Senior Seminar in Dance (2)

Prerequisites: Senior standing in the BFA program or consent of instructor.

Select one of the following courses:

- DANC 491A Design for Dance Lighting (3)

Prerequisites: Upper division standing or consent of instructor.

- DANC 491B Design for Dance Costuming (3)

Prerequisites: Upper division standing or consent of instructor.

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### **CHANGING INFORMATION**

New Catalog Text:

Theory (29 units):

Take all the following courses:

- DANC 100 Orientation to Dance (1)

Prerequisite: Dance Major or Minor. Corequisite: DANC 152 or DANC 154.

- DANC 131 Introduction to Music (2)

Prerequisites: None

- DANC 161 Body Placement (2)

Prerequisites: Open to Dance Majors and Minors.

- DANC 260 Functional Anatomy for the Dancer (3)

Prerequisites: DANC 161 or consent of the instructor.

- DANC 261 Anatomy with Clay Laboratory (1)

Prerequisites: DANC 161 or consent of the instructor. Corequisites: DANC 260 or consent of the instructor.

- DANC 262 Pilates I (3)

Prerequisites: DANC 260 or BIOL 208.

- DANC 342 Global Cultures and Dance Traditions (3)

Prerequisites: None

- DANC 442 Dance and Social Identity in the U.S. (3)

Prerequisites: None

- DANC 445 Movement Analysis (3)

Prerequisites: Open to Dance Majors and Minors only.

- DANC 498 Senior Seminar in Dance (2)

Prerequisites: Senior standing in the BFA program or consent of instructor.

Select one of the following courses:

DANC 470A Dance Pedagogy (3)

Prerequisites: Upper division standing, or consent of instructor.

DANC 470B Ballet Pedagogy (3)

Prerequisites: Upper division standing, or consent of instructor.

Select one of the following courses:

- DANC 491A Design for Dance Lighting

(3) Prerequisites: Upper division standing or consent of instructor.

- DANC 491B Design for Dance Costuming (3)

Prerequisites: Upper division standing or consent of instructor.

\*\*\*\*\*

List changes:

Remove DANC 470 Dance Pedagogy (3) Prerequisites: Upper division standing, or consent of instructor.

Add: Select one of the following courses:

DANC 470A Dance Pedagogy (3)

Prerequisites: Upper division standing, or consent of instructor.

DANC 470B Ballet Pedagogy (3)

Prerequisites: Upper division standing, or consent of instructor.

No revised Roadmap Necessary

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## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: DESN 142 Beginning Space Planning 3 Units @ C-7

Items Changing–

Prerequisite(s): DESN 120A, DESN 132A, DESN 141 and BFA Interior Design Major status; BA in Design with consent of instructor.

ARTICULATION – Minimal change, no articulation review necessary.

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## **COURSE – NEW – LOWER DIVISION**

FEA 227. History of Animation (3)

Prerequisite(s): Completion of GE A1 (Written Communication) requirement; sophomore standing

Historical, theoretical and aesthetic developments of animation since its beginnings across cultures and within global contexts with consideration of cultural, social, political and technological influences. Same course as ART 227. Not open for credit to students with credit in ART 227.

Letter grade only (A-F).

3 units @ C-2

No articulation, transfer course does not meet goals.

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## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: FEA 205 Film History 3 @ C-2

Items Changing

Prerequisite(s): FEA Pre-major, major or minor status.

ARTICULATION – Minimal change. No articulation review necessary.

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## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: FEA 206 History of Broadcasting 3 @ C-2

Items Changing

Prerequisite(s): FEA Pre-major, major or minor status.

ARTICULATION – Minimal change. No articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: FEA 299 Media Aesthetics 3 @ C-1

Items Changing

Prerequisite(s): FEA Pre-major, major or minor status.

ARTICULATION – Minimal change. No articulation review necessary.

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**PROGRAM – CHANGE** Bachelor of Arts Film and Electronic Arts Option in Narrative Production (120 units)

**CURRENT CATALOG TEXT –**

A. Production and Directing

Take one international cinema course from the following:

- FEA 392A, FEA 392B, FEA 392C, FEA 392D, FEA 346/HIST 346/RGR 346, FEA 454/ITAL 454, FEA 456/FREN 456, FEA 457/GERM 480, FEA 458/RUSS 428, FEA 460/SPAN 428.

B. Cinematography

Take one international cinema course from the following:

- FEA 392A, FEA 392B, FEA 392C, FEA 392D, FEA 346/HIST 346/RGR 346, FEA 454/ITAL 454, FEA 456/FREN 456, FEA 457/GERM 480, FEA 458/RUSS 428, FEA 460/SPAN 428.

Take one of the following courses:

- FEA 320 Sound Design (3)

Prerequisite: Major status, FEA 307.

- FEA 327 Production Management I (3)

Prerequisites: Major status, FEA 299 with "C" or better or consent of instructor.

- FEA 416 Advanced Media Editing (3)

Prerequisite: FEA 415.

Take three additional units of FEA elective

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**CHANGING INFORMATION**

New Catalog Text:

A. Production and Directing

Take one international cinema course from the following:

FEA 392A, FEA 392B, FEA 392C, FEA 392D, FEA 346/HIST 346/RGR 346, FEA 454/ITAL 454, FEA 456/FREN 456, FEA 457/GERM 480, FEA 458/RUSS 428, FEA 460/SPAN 428, FEA 462.

B. Cinematography

Take one international cinema course from the following: FEA 392A, FEA 392B, FEA 392C, FEA 392D, FEA 346/HIST 346/RGR 346, FEA 454/ITAL 454, FEA 456/FREN 456, FEA 457/GERM 480, FEA 458/RUSS 428, FEA 460/SPAN 428, FEA 462.

Take two of the following courses:

FEA 320 Sound Design (3)

Prerequisites: Major status, FEA 307.

FEA 327 Production Management I (3)

Prerequisites: Major status, FEA 299 with "C" or better or consent of instructor.  
FEA 330 Introduction to Production Design for Motion Pictures (3)  
Prerequisites: None  
FEA 416 Advanced Media Editing (3)  
Prerequisite: FEA 415.  
FEA 427 Production Management II (3)  
Prerequisite: FEA 327

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List changes:

A. Production and Directing

Take one international cinema course from the following: Add FEA 462

B. Cinematography Take one international cinema course from the following:

Add FEA 462

Take one of the following courses:

Delete one and add two;

Add FEA 330 and 427.

Remove: Take three additional units of FEA elective.

No revised Roadmap Necessary

=====

**PROGRAM – CHANGE** Bachelor of Arts Film and Electronic Arts  
Option in Theory and Practice of Cinema (120 units)

**CURRENT CATALOG TEXT –**

3. Culture and Media

Take three of the following:

• FEA 310, FEA 315, FEA 317, FEA 318, FEA 380, FEA 394, FEA 412, FEA 450, FEA 486

4. International Cinema

Take three of the following:

FEA 392A, FEA 392B, FEA 392C, FEA 392D, FEA 460/SPAN 428; only one of the following may be used to meet this requirement: FEA 346/HIST 346/RGR 346, FEA 454/ITAL 454, FEA 456/FREN 456, FEA 457/GERM 480, FEA 458/RUSS 428.

Later in requirements:

5. Tracks of Specialization

B. Documentary Production

C. Screenwriting

Take the following courses:

• FEA 318 Theory of Fiction and Film (3)

Prerequisites: GE Foundation requirement, one or more Explorations courses, and upper-division standing.

• FEA 404 (Fall) Advanced Scriptwriting for Film and Electronic Media (3)

Prerequisites: FEA 303 or FEA 304 with a "C" or better or ENGL 405 or ENGL 407 with a "C" or better, or consent of instructor.

• FEA 404 (Spring) Advanced Scriptwriting for Film and Electronic Media (3)

Prerequisites: FEA 303 or FEA 304 with a "C" or better or ENGL 405 or ENGL 407 with a "C" or better, or consent of instructor.

Take one of the following courses:

• FEA 405 Comedy Writing (3)

Prerequisites: FEA 303 or FEA 304 with a "C" or better or ENGL 405 or ENGL 407 with a "C" or better or consent of instructor.

• FEA 408 Writing the Screen Adaptation (3)

Prerequisites: FEA 303 or FEA 304 with a "C" or better or ENGL 405 or ENGL 407 with a "C" or better or consent of instructor.

Take three additional units of FEA elective

F. Broadcast Production

Take one course from the following:

• FEA 307, FEA 322, FEA 327, FEA 339, FEA 375

5. Tracks of Specialization

Select one of the following 15-unit tracks. Courses in any track may be applied as electives in other tracks. See an advisor to determine the most relevant electives for your track.

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## CHANGING INFORMATION

New Catalog Text:

### 3. Culture and Media

Take three of the following:

- FEA 310, FEA 315, FEA 316, FEA 317, FEA 318, FEA 380, FEA 394, FEA 412, FEA 450, FEA 486

### 4. International Cinema

Take three of the following:

FEA 392A, FEA 392B, FEA 392C, FEA 392D, FEA 460/SPAN 428, 462; only one of the following may be used to meet this requirement: FEA 346/HIST 346/RGR 346, FEA 454/ITAL 454, FEA 456/FREN 456, FEA 457/GERM 480, FEA 458/RUSS 428.

### 5. Tracks of Specialization

Select one of the following 15-unit tracks. Courses in any track may be applied as electives in other tracks. See an advisor to determine the most relevant electives for your track.

#### B. Creative Nonfiction Production

##### C. Screenwriting

Take the following courses:

FEA 304. Writing the Short Script (3)

Prerequisites: Major status, FEA 303 or consent of instructor.

FEA 318 Theory of Fiction and Film (3)

Prerequisites: GE Foundation requirement, one or more Explorations courses, and upper-division standing.

FEA 404 (Fall) Advanced Scriptwriting for Film and Electronic Media (3)

Prerequisites: FEA 304 or consent of instructor.

FEA 404 (Spring) Advanced Scriptwriting for Film and Electronic Media (3)

Prerequisites: FEA 304 or consent of instructor.

Take one of the following courses:

FEA 365 Introduction to Game Writing and Design (3)

Prerequisites: FEA 303 or consent of instructor.

FEA 405 Comedy Writing (3)

Prerequisites: FEA 303 or consent of instructor.

FEA 408 Writing the Screen Adaptation (3)

Prerequisites: FEA 303 or consent of instructor.

#### F. Broadcast Production

Take one course from the following:

FEA 307, FEA 322, FEA 327, FEA 339, FEA 375, FEA 448

#### H. Digital Arts

Take the following courses:

FEA 315 Theory of New Media (3)

Prerequisites: FEA 205 and 206, or consent of instructor.

FEA 337 Digital Arts Production (3)

Prerequisites: Major status or consent of instructor.

FEA 430 Introduction to Game Writing and Design (3)

Prerequisites: FEA 303 or consent of instructor.

FEA 437 3D Computer Animation (3)

Prerequisites: FEA majors only. FEA 337 or consent of instructor.

Take 3 additional units of FEA elective.

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List changes:

### 3. Culture and Media

Take three of the following: Add FEA 316

4. International Cinema Take three of the following: Add FEA 462

### 5. Tracks of Specialization

B. Creative Nonfiction Production: Change name of track

C. Screenwriting

Take the following courses: Add FEA 304

Take one of the following courses: Add FEA 365

Delete: Take three additional units of FEA elective.

F. Broadcast Production

Take one course from the following: Add FEA 448

5. Tracks of Specialization Select one of the following 15-unit tracks. Courses in any track may be applied as electives in other tracks. See an advisor to determine the most relevant electives for your track.

Add: H. Digital Arts

Take the following courses:

FEA 315 Theory of New Media (3)

Prerequisites: FEA 205 and 206, or consent of instructor.

FEA 337 Digital Arts Production (3)

Prerequisites: Major status or consent of instructor.

FEA 430 Introduction to Game Writing and Design (3)

Prerequisites: FEA 303 or consent of instructor.

FEA 437 3D Computer Animation (3)

Prerequisites: FEA majors only. FEA 337 or consent of instructor.

Take 3 additional units of FEA elective.

No revised Roadmap Necessary

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**PROGRAM – CHANGE** Minor in Film and Electronic Arts (21 units)

**CURRENT CATALOG TEXT –**

Requirements

3. Complete 9 units of electives from the following:

FEA 302, FEA 303, FEA 304, FEA 307, FEA 312, FEA 314, FEA 316, FEA 318, FEA 320, FEA 322, FEA 327, FEA 337, FEA 338, FEA 346, FEA 360, FEA 375, FEA 380, FEA 392, FEA 394, FEA 412, FEA 427, FEA 437, FEA 486.

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**CHANGING INFORMATION**

New Catalog Text:

Requirements

3. Complete 9 units of electives from the following:

FEA 302, FEA 303, FEA 304, FEA 307, FEA 314, FEA 316, FEA 318, FEA 320, FEA 322, FEA 327, FEA 330, FEA 337, FEA 338, FEA 346, FEA 360, FEA 375, FEA 380, FEA 392, FEA 408, FEA 427, FEA 437, FEA 460, FEA 462, FEA 486.

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List changes: Requirements

3. Complete 9 units of electives from the following:

Add FEA 322, FEA 330, FEA 408, FEA 460, FEA 462.

Delete: FEA 312, FEA 394, FEA 412.

No revised Roadmap Necessary

=====

**PROGRAM – CHANGE** Bachelor of Music

Option in Performance

Jazz Studies

**CURRENT CATALOG TEXT –**

Take 4 units of the following courses:

• MUS 100/ MUS 300L, M, N, O or MUS 200/ MUS 400H

Take all of the following courses:

• MUS 272A Jazz Theory I (2)

Prerequisite: MUS 142B or consent of instructor.

• MUS 272B Jazz Theory II (2)

Prerequisite: MUS 272A or consent of instructor.

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7170

- MUS 371A Improvisation Techniques I (2)  
Prerequisites: MUS 272B or consent of instructor.
- MUS 371B Improvisation Techniques II (2)  
Prerequisites: MUS 371A or consent of instructor.
- MUS 393 Jazz, An American Music (3)  
Prerequisite: GE Foundation requirement and upper division standing.
- MUS 416 Jazz Pedagogy (2)  
Prerequisite: MUS 371B or consent of instructor.
- MUS 474A Jazz Arranging I (2)  
Prerequisite: MUS 272B or consent of instructor.

Take 3 units by advisement from the following:

- MUS 370, MUS 411A, MUS 417, MUS 442, MUS 455, MUS 456, MUS 457, MUS 474B or MUS 497D

Completion of Bob Cole Conservatory Jazz Piano Proficiency Examination (equivalent to MUS 221B)

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## CHANGING INFORMATION

New Catalog Text:

Take 4 units of the following courses:

- MUS 100/ MUS 300L, M, N, O or MUS 200/ MUS 400H

Take all of the following courses:

- MUS 272A Jazz Theory I (2)  
Prerequisite: MUS 142B or consent of instructor.
- MUS 272B Jazz Theory II (2)  
Prerequisite: MUS 272A or consent of instructor.
- MUS 371A Improvisation Techniques I (2)  
Prerequisites: 272B or consent of instructor.
- MUS 371B Improvisation Techniques II (2)  
Prerequisites: MUS 371A or consent of instructor.
- MUS 393 Jazz, An American Music (3)  
Prerequisite: GE Foundation requirement and upper division standing.
- MUS 416 Jazz Pedagogy (2)  
Prerequisite: MUS 371B or consent of instructor.
- MUS 474A Jazz Arranging I (2)  
Prerequisite: MUS 272B or consent of instructor.

Take 3 units by advisement from the following:

- MUS 370, MUS 411A, MUS 414, MUS 417, MUS 442, MUS 455, MUS 456, MUS 457, MUS 474B or MUS 497D

Completion of Bob Cole Conservatory Jazz Piano Proficiency Examination (equivalent to MUS 221B)

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List changes: (all changes must be delineated in the text box below):

1. Add MUS 414 under "units by advisement."

No revised Roadmap Necessary

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## PROGRAM – CHANGE Music Minor

### CURRENT CATALOG TEXT –

A minimum of 18 units, 9 must be upper division (300- and 400-level courses), taken from each of the following areas:

Music Theory – 2 units minimum selected from:

- MUS 140, MUS 141A/B, MUS 142A/B, MUS 240, MUS 241, MUS 341, and/or MUS 342;

Music History – 3 units minimum selected from:

- MUS 160, MUS 190, MUS 290, MUS 360, MUS 374, and/or MUS 490;

Applied Music – 2 units minimum selected from:

- MUS 119, MUS 120A/B, MUS 122A/B;

Performance Ensembles – 4 units minimum selected from:

- MUS 100/300, MUS 200/400;

Music electives by advisement.

.....  
**CHANGING INFORMATION**

New Catalog Text:

A minimum of 18 units, 6 must be upper division (300- and 400-level courses), taken from each of the following areas:

Music Theory – 2 units minimum selected from:

- MUS 140, MUS 141A/B, MUS 142A/B, MUS 240, MUS 241, MUS 341, and/or MUS 342;

Music History – 3 units minimum selected from:

- MUS 160, MUS 190, MUS 290, MUS 360, MUS 374, and/or MUS 490;

Applied Music – 2 units minimum selected from:

- MUS 120A/B, MUS 122A/B, MUS 125F;

Performance Ensembles – 4 units minimum selected from:

- MUS 100/ MUS 300, MUS 200/ MUS 400;

Music Electives by advisement.

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List changes: (all changes must be delineated in the text box below):

1. Reduce Upper divisions units from 9 to 6 as per University
2. Remove MUS 119
3. Add MUS 125F
4. Add Elective Options: MUS 393, MUS 363, MUS 364, MUS 417, MUS 468

No revised Roadmap Necessary

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**COURSE – NEW – LOWER DIVISION**

THEA 212 How the World Talks (3)

How the World Talks

Online practical study, exploring all the speech skills in human language (from the sounds of beat boxing to clicks) and exploring the spectrum of formal to informal speech choices in order to become more articulate and confident speakers in any context

Letter grade only (A-F)

3 units @C3

=====

**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: THEA 111 Theatre Arts Showcase (1) 1@C1

**Items Changing**

Contact Hours: (3 hours activity)

Classification: 1@C20

ARTICULATION – Minimal change, no articulation review necessary.

=====

**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: THEA 112 Beginning Voice and Speech for the Actor (3) 3@C12

**Items Changing**

Contact Hours: (2 hours lecture, 2 hours activity)

Classification: 2@C3 & 1@C12

ARTICULATION – Minimal change, no articulation review necessary.

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## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: THEA 142 Elementary Stagecraft 3 @ C-12

### **Items Changing**

Corequisite(s): THEA 140 or THEA 340

Course Description: Basic physical equipment of the theatre, elementary scenic design, construction, rigging, painting and drafting. (2 hours lecture, 2 hours lab).

Classification: 2@ C-2 & 1@ C-12

ARTICULATION – Minimal change, no articulation review necessary.

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## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: THEA 146 Costume Crafts 3 @ C-12

### **Items Changing**

Corequisite(s): THEA 140 or THEA 340

Course Description: Techniques of costume and accessory construction for stage; use of fabrics, materials and equipment.

(2 hours lecture, 2 hours lab)

Classification: 2@ C-3 & 1@ C-12

ARTICULATION – Minimal change, no articulation review necessary.

=====

## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: THEA 148 Stage Lighting 3 @ C-12

### **Items Changing**

Corequisite(s): THEA 140 or THEA 340

Course Description: Theory and practice of modern stage lighting; functions of light; design, layout; properties of various instruments

(2 hours lecture, 3 hours lab).

Classification: 2@ C-3 & 1@ C-15

ARTICULATION – Minimal change, no articulation review necessary.

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## **PROGRAM – CHANGE Bachelor of Arts in Theatre Arts**

Option in Performance: Acting

### **CURRENT CATALOG TEXT –**

Lower Division Core:

Take all of the following courses:  
 THEA 101 Fundamentals of Script Analysis (3)  
 Prerequisites: None  
 THEA 111 Theatre Arts Showcase (1)  
 Prerequisites: None  
 THEA 114A Fundamentals of Acting (3)  
 Prerequisites: None  
 THEA 142 Elementary Stagecraft (3)  
 Corequisites: THEA 140 or 340  
 THEA 146 Costume Crafts I (3)  
 Corequisites: THEA 140 or 340  
 THEA 148 Stage Lighting I (3)  
 Corequisites: THEA 140 or 340  
 THEA 201 Writing for the Theatre Arts (3)  
 Prerequisite: ENGL 100 or GE Composition (Area A1).  
 THEA 221 History of Theatre and Drama to 1660 (3)  
 Prerequisite: THEA 101 or concurrent enrollment or consent of instructor.  
 THEA 222 History of Theatre & Drama Since 1660 (3)  
 Prerequisite: THEA 221 or consent of instructor.  
 THEA 271 Stage Management (3)  
 Corequisites: THEA 240 or 440

#### Upper Division Core:

Take all of the following courses:  
 THEA 324 Theatre Today (3)  
 Prerequisites: GE Foundation requirements, one or more Explorations courses, and upper-division standing.  
 THEA 374 Fundamentals of Directing (3)  
 Prerequisites: THEA 101 and THEA 114A or consent of instructor.  
 THEA 426 Dramatic Theory and Criticism (3)  
 Prerequisites: None

Take all of the following courses:  
 THEA 112 Beginning Voice and Speech for Actor (3)  
 Prerequisites: None  
 THEA 114B Fundamentals of Acting (3)  
 Prerequisite: THEA 114A or equivalent.  
 THEA 214 Intermediate Acting (3)  
 Prerequisites: THEA 112, THEA 114 A and B. Should be taken directly following THEA 114B.  
 THEA 262 Beginning Movement for the Actor (3)  
 Prerequisites: None

Take nine units from the following courses:  
 THEA 144, THEA 215, THEA 290, THEA 312, THEA 316, THEA 318A, THEA 318B, THEA 375, THEA 413, THEA 414, THEA 415, THEA 462, THEA 476, THEA 490, THEA 498.

All performance majors will also fulfill four performance requirements to graduate. This requirement is met through acting, understudying, directing or assistant directing for a Mainstage or Second Stage production; acting or directing for a Showcase production; or by a special assignment approved by the performance faculty.

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#### CHANGING INFORMATION

New Catalog Text:

#### Lower Division Core:

Take all of the following courses:  
 THEA 101 Fundamentals of Script Analysis (3)  
 Prerequisites: None  
 THEA 111 Theatre Arts Showcase (1)  
 Prerequisites: None  
 THEA 114A Fundamentals of Acting (3)  
 Prerequisites: None  
 THEA 142 Elementary Stagecraft (3)

Corequisites: THEA 140 or THEA 340  
THEA 146 Costume Crafts (3)  
Corequisites: THEA 140 or THEA 340  
THEA 148 Stage Lighting (3)  
Corequisites: THEA 140 or THEA 340

THEA 201 Writing for the Theatre Arts (3)  
Prerequisite: ENGL 100 or GE Composition (Area A1).  
THEA 221 History of Theatre and Drama to 1660 (3)  
Prerequisites: THEA 101 or concurrent enrollment or consent of instructor.  
THEA 222 History of Theatre & Drama Since 1660 (3)  
Prerequisites: THEA 221 or consent of instructor.  
THEA 271 Stage Management (3)  
Corequisites: THEA 240 or THEA 440

Upper Division Core:

Take all of the following courses:  
THEA 324 Theatre Today (3)  
Prerequisites: GE Foundation requirements, one or more Explorations courses, and upper-division standing.  
THEA 374 Fundamentals of Directing (3)  
Prerequisites: THEA 101 and THEA 114A or consent of instructor.  
THEA 426 Dramatic Theory and Criticism (3)  
Prerequisites: None

Take all of the following courses:  
THEA 112 Beginning Voice and Speech for Actor (3)  
Prerequisites: None  
THEA 114B Fundamentals of Acting (3)  
Prerequisite: THEA 114A or equivalent.  
THEA 214 Intermediate Acting (3)  
Prerequisites: THEA 112, THEA 114 A and B. Should be taken directly following THEA 114B.  
THEA 262 Beginning Movement for the Actor (3)  
Prerequisites: None

Take four units from the following:  
THEA 140, THEA 240, THEA 340, THEA 440

Take six units from the following courses:  
THEA 144, THEA 215, THEA 290, THEA 312, THEA 316, THEA 318A, THEA 318B, THEA 375, THEA 413, THEA 414, THEA 415, THEA 462, THEA 476, THEA 490, THEA 498.

No more than eight units of Theatre Arts activity (cast and/or crew) will apply toward degree requirements. Crew requirements for all majors: One major running crew assignment in residence for each of the areas of costume, stagecraft and lighting to be satisfactorily completed. Students with transfer credit in those related courses must fulfill the same running crew requirements within the first three semesters of matriculation into the University.

At the beginning of the semester, all incoming students, including transfer students (including those who have been inactive for a year in our department), are required to audition or interview. Auditions and interviews are conducted by appropriate faculty/ student groups. These auditions are required for admittance to certain upper division classes and are therefore used for appropriate placement of students at their level of competency as determined by the faculty.

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List changes:

1. Add Take 4 Units from THEA 140, THEA 240, THEA 340, THEA 440
2. Reduce the number of elective units from 9 to 6
3. Add crew requirements and audition/interview explanation

No revised Roadmap Necessary

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**PROGRAM – CHANGE** Bachelor of Arts in Theatre Arts

Option in Technical Theatre

CURRENT CATALOG TEXT –

Lower Division Core:

Take all of the following courses:

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THEA 101 Fundamentals of Script Analysis (3)  
Prerequisites: None  
THEA 111 Theatre Arts Showcase (1)  
Prerequisites: None  
THEA 114A Fundamentals of Acting (3)  
Prerequisites: None  
THEA 142 Elementary Stagecraft (3)  
Corequisites: THEA 140 or THEA 340  
THEA 146 Costume Crafts I (3)  
Corequisites: THEA 140 or THEA 340  
THEA 148 Stage Lighting I (3)  
Corequisites: THEA 140 or THEA 340  
THEA 201 Writing for the Theatre Arts (3)  
Prerequisite: ENGL 100 or GE Composition (Area A1).  
THEA 221 History of Theatre and Drama to 1660 (3)  
Prerequisite: THEA 101 or concurrent enrollment or consent of instructor.  
THEA 222 History of Theatre & Drama Since 1660 (3)  
Prerequisite: THEA 221 or consent of instructor.  
THEA 271 Stage Management (3)  
Corequisites: THEA 240 or THEA 440

Upper Division Core:

Take all of the following courses:  
THEA 324 Theatre Today (3)  
Prerequisites: GE Foundation requirements, one or more Explorations courses, and upper-division standing.  
THEA 374 Fundamentals of Directing (3)  
Prerequisites: THEA 101 and THEA 114A or consent of instructor.  
THEA 426 Dramatic Theory and Criticism (3)  
Prerequisites: None

Take all of the following courses:  
THEA 352 Foundations of Visual Expression (3)  
Prerequisites: None  
THEA 433 Design for Theatre (3)  
Prerequisites: THEA 142, THEA 146, THEA 148 or consent of instructor.

Take 15 units from the following courses:  
THEA 144, THEA 341, THEA 342, THEA 441, THEA 442, THEA 444, THEA 446, THEA 447, THEA 448, THEA 449, THEA 476, THEA 498.

All technical theatre majors will also fulfill four production requirements in order to graduate. This requirement is met through scene, lighting, sound, costume, or makeup design or assistant design; technical direction or assistant; prop master; master painter; stage management or assistant; cutter or stitcher; or by special assignments as approved by the faculty in the appropriate area.

**CHANGING INFORMATION**

New Catalog Text:

Lower Division Core:

Take all of the following courses:  
THEA 101 Fundamentals of Script Analysis (3)  
Prerequisites: None  
THEA 111 Theatre Arts Showcase (2)  
Prerequisites: None  
THEA 114A Fundamentals of Acting (3)  
Prerequisites: None  
THEA 142 Elementary Stagecraft (3)  
Corequisites: THEA140 or THEA 340  
THEA 146 Costume Crafts (3)  
Corequisites: THEA 140 or THEA 340  
THEA 148 Stage Lighting (3)  
Corequisites: THEA 140 or THEA 340  
THEA 201 Writing for the Theatre Arts (3)  
Prerequisite: ENGL 100 or GE Composition (Area A1).  
THEA 221 History of Theatre and Drama to 1660 (3)

Prerequisite: THEA 101 or concurrent enrollment or consent of instructor.  
THEA 222 History of Theatre & Drama Since 1660 (3)  
Prerequisite: THEA 221 or consent of instructor.  
THEA 271 Stage Management (3)  
Corequisites: THEA 240 or THEA 440

Upper Division Core:

Take all of the following courses:

THEA 324 Theatre Today (3)

Prerequisites: GE Foundation requirements, one or more Explorations courses, and upper-division standing.

THEA 374 Fundamentals of Directing (3)

Prerequisites: THEA 101 and THEA 114A or consent of instructor.

THEA 426 Dramatic Theory and Criticism (3)

Prerequisites: None

Take all of the following courses:

THEA 352 Foundations of Visual Expression (3)

Prerequisites: None

THEA 433 Design for Theatre (3)

Prerequisites: THEA 142, THEA 146, THEA 148 or consent of instructor.

Take four units from the following:

THEA 140, THEA 240, THEA 340, THEA 440

Take 12 units from the following courses:

THEA 144, THEA 341, THEA 342, THEA 441, THEA 442, THEA 444, THEA 446, THEA 447, THEA 448, THEA 449, THEA 476, THEA 498.

No more than eight units of Theatre Arts activity (cast and/or crew) will apply toward degree requirements. Crew requirements for all majors: One major running crew assignment in residence for each of the areas of costume, stagecraft and lighting to be satisfactorily completed. Students with transfer credit in those related courses must fulfill the same running crew requirements within the first three semesters of matriculation into the University.

At the beginning of the semester, all incoming students, including transfer students (including those who have been inactive for a year in our department), are required to audition or interview. Auditions and interviews are conducted by appropriate faculty/student groups. These auditions are required for admittance to certain upper division classes and are therefore used for appropriate placement of students at their level of competency as determined by the faculty. to certain upper division classes and are therefore used for appropriate placement of students at their level of competency as determined by the faculty.

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List changes:

1. Add Take 4 Units from THEA 140, THEA 240, THEA 340, THEA 440
2. Reduce the number of elective units from 15 to 12
3. Add crew requirements and audition/interview explanation

No revised Roadmap Necessary

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**PROGRAM – CHANGE** Bachelor of Arts in Theatre Arts

**CURRENT CATALOG TEXT –**

Requirements

Lower Division Core:

Take all of the following courses:

• THEA 101 Fundamentals of Script Analysis (3)

Prerequisites: None

• THEA 111 Theatre Arts Showcase (1)

Prerequisites: None

• THEA 114A Fundamentals of Acting (3)

Prerequisites: None

• THEA 142 Elementary Stagecraft (3)

Corequisites: THEA 140 or THEA 340

• THEA 146 Costume Crafts I (3)

Corequisites: THEA 140 or THEA 340  
• THEA 148 Stage Lighting I (3)  
Corequisites: THEA 140 or THEA 340  
• THEA 201 Writing for the Theatre Arts (3)  
Prerequisite: ENGL 100 or GE Composition (Area A1).  
• THEA 221 History of Theatre and Drama to 1660 (3)  
Prerequisite: THEA 101 or concurrent enrollment or consent of instructor.  
• THEA 222 History of Theatre and Drama Since 1660 (3)  
Prerequisite: THEA 221 or consent of instructor.  
• THEA 271 Stage Management (3)  
Corequisites: THEA 240 or THEA 440

Upper Division Core:

Take all of the following courses:

• THEA 324 Theatre Today (3)  
Prerequisites: GE Foundation requirements, one or more Explorations courses, and upper-division standing.  
• THEA 374 Fundamentals of Directing (3)  
Prerequisites: THEA 101 and THEA 114A or consent of instructor.  
• THEA 426 Dramatic Theory and Criticism (3)  
Prerequisites: None

Take 21 units from the following:

• THEA 112, THEA 114B, THEA 144, THEA 214, THEA 215, THEA 262, THEA 290, THEA 316, THEA 318A, THEA 318B, THEA 341, THEA 352, THEA 364, THEA 375, THEA 413, THEA 414, THEA 415, THEA 425, THEA 427, THEA 433, THEA 442, THEA 447, THEA 449, THEA 462, THEA 476, THEA 490, THEA 498.

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## CHANGING INFORMATION

New Catalog Text:

### Requirements

Lower Division Core:

Take all of the following courses:  
THEA 101 Fundamentals of Script Analysis (3)  
Prerequisites: None  
THEA 111 Theatre Arts Showcase (1)  
Prerequisites: None  
THEA 114A Fundamentals of Acting (3)  
Prerequisites: None  
THEA 142 Elementary Stagecraft (3)  
Corequisites: THEA140 or THEA 340  
THEA 146 Costume Crafts (3)  
Corequisites: THEA 140 or THEA 340  
THEA 148 Stage Lighting (3)  
Corequisites: THEA 140 or THEA 340  
THEA 201 Writing for the Theatre Arts (3)  
Prerequisite: ENGL 100 or GE Composition (Area A1).  
THEA 221 History of Theatre and Drama to 1660 (3)  
Prerequisite: THEA 101 or concurrent enrollment or consent of instructor.  
THEA 222 History of Theatre and Drama Since 1660 (3)  
Prerequisite: THEA 221 or consent of instructor.  
THEA 271 Stage Management (3)  
Corequisites: THEA 240 or THEA 440

Upper Division Core:

Take all of the following courses:

THEA 324 Theatre Today (3)  
Prerequisites: GE Foundation requirements, one or more Explorations courses, and upper-division standing.  
THEA 374 Fundamentals of Directing (3)  
Prerequisites: THEA 101 and THEA 114A or consent of instructor.  
THEA 426 Dramatic Theory and Criticism (3)  
Prerequisites: None

Take 4 units from the following:  
THEA 140, THEA 240, THEA 340, THEA 440

Take 18 units from the following:  
THEA 112, THEA 114B, THEA 144, THEA 214, THEA 215, THEA 262, THEA 290, THEA 316, THEA 318A,  
THEA 318B, THEA 341, THEA 352, THEA 364, THEA 375, THEA 413, THEA 414, THEA 415, THEA 425,  
THEA 427, THEA 433, THEA 442, THEA 447, THEA 449, THEA 462, THEA 476, THEA 490, THEA 498.  
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List changes:

1. Add Take 4 Units from THEA 140, THEA 240, THEA 340, THEA 440
2. Reduce the number of elective units from 21 to 18

No revised Roadmap Necessary

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END.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH**

**Office of the Vice Provost for Academic Affairs and  
Dean of Graduate Studies**

December 19, 2014

**CERTIFICATION 15 - 02**

The following changes to the curriculum have completed the University review processes. New and changed courses will become effective Fall 2015 unless otherwise noted on the curriculum form. Changed program requirements will become effective Fall 2015.

Certified:

  
Cecile Lindsay  
Vice Provost for Academic Affairs and Dean of Graduate Studies

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**COLLEGE OF BUSINESS ADMINISTRATION**

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**PROGRAM CHANGE** Bachelor of Science in Business Administration – Accountancy

**CURRENT CATALOG TEXT –**

**Requirements**

In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

**1. Lower Division:**

Choose one of the following:

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- STAT 108 Statistics for Everyday Life (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11 or MAPB 12.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

**5. Upper Division:**

*A. Take all of the following:*

- CBA 300 International Business (3)  
Prerequisite: None
- ACCT 320 Cost Accounting (4)  
\*"C" or better required.  
Prerequisites: ACCT 201 with a grade of "C" or better.
- FIN 300 Business Finance (3)

Prerequisite: None

- BLAW 320 Legal and Regulatory Environment of Business (3)  
Prerequisite: None
- IS 300 Management Information Systems (3)  
\*"C" or better required.  
Prerequisite: IS 233 or equivalent.
- IS 301 Business Communications (3)  
Prerequisite: None
- IS 310 Business Statistics (3)  
Prerequisite: STAT 118, or STAT 108, or MATH 114.
- HRM 360 Organizational Behavior (3)  
Prerequisite: None
- MGMT 300 Principles of Management (3)  
Prerequisite: None
- MKTG 300 Marketing (3)  
Prerequisite: None

B. The following Capstone course must be taken at CSULB as a senior and after the upper-division prerequisite core courses have been completed (ACCT 320, FIN 300, MGMT 300, MKTG 300, IS 301):

- MGMT 425 Business Strategy and Policy (3)  
Prerequisites: ACCT 202 or ACCT 320; MGMT 300, MKTG 300, FIN 300 and IS 301.

6. Elective courses to total 120 units. Students are encouraged to select electives for expansion of knowledge and intellectual interests as well as for preparation for business employment.

### **Option in Accountancy (120 units)**

#### **Requirements**

*Take all of the following:*

- ACCT 300A Intermediate Accounting (4)  
\*"C" or better required.  
Prerequisites: ACCT 201 with a grade of "C" or better.
- ACCT 300B Intermediate Accounting (4)  
\*"C" or better required.  
Prerequisites: ACCT 300A with a grade of "C" or better.
- ACCT 351 Federal Tax Law (4)  
Prerequisites: Any upper-division Accountancy course with a grade of "C" or better.
- ACCT 400 Advanced Accounting (4)  
Prerequisites: ACCT 300B with grade of "C" or better, IS 301.
- ACCT 470 Auditing (4)  
Prerequisites: ACCT 300B, ACCT 320 with grades of "C" or better, IS 301.
- ACCT 480 Accounting Systems & Data Processing (4)  
Prerequisites: IS 300, ACCT 300B and ACCT 320 with grades of "C" or better, IS 301.

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### **CHANGING INFORMATION**

#### **Requirements**

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In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

All CBA majors must maintain major GPAs of 2.0 or higher. A student whose GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to raise their major GPA(s) to 2.0. Students who do not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the CBA Center for Student Success explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional semester must declare a new major.

1. Lower Division:

Choose one of the following:

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

5. Upper Division:

A. *Take all of the following:*

- CBA 300 International Business (3)  
Prerequisite: None
- FIN 300 Business Finance (3)  
Prerequisite: None
- BLAW 320 Legal and Regulatory Environment of Business (3)  
Prerequisite: None
- IS 300 Management Information Systems (3)  
\*"C" or better required.  
Prerequisite: IS 233 or equivalent.
- IS 301 Business Communications (3)  
Prerequisite: None
- IS 310 Business Statistics (3)  
Prerequisite: STAT 118, or STAT 108, or MATH 114.
- HRM 360 Organizational Behavior (3)  
Prerequisite: None
- MGMT 300 Principles of Management (3)  
Prerequisite: None
- MKTG 300 Marketing (3)  
Prerequisite: None

B. The following Capstone course must be taken at CSULB as a senior and after the upper-division prerequisite core courses have been completed (ACCT 320, FIN 300, MGMT 300, MKTG 300, IS 301):

- MGMT 425 Business Strategy and Policy (3)  
Prerequisites: ACCT 202 or ACCT 320; MGMT 300, MKTG 300, FIN 300 and IS 301.

6. Elective courses to total 120 units. Students are encouraged to select electives for expansion of knowledge and intellectual interests as well as for preparation for business employment.

## Option in Accountancy (120 units)

### Requirements

Take all of the following:

- ACCT 300A Intermediate Accounting (4)  
\*"C" or better required.  
Prerequisites: ACCT 201 with a grade of "C" or better.
- ACCT 300B Intermediate Accounting (4)  
\*"C" or better required.  
Prerequisites: ACCT 300A with a grade of "C" or better.
- ACCT 320 Cost Accounting (4)  
\*"C" or better required.  
Prerequisites: ACCT 201 with a grade of "C" or better.
- ACCT 470 Auditing (4)  
Prerequisites: ACCT 300B, ACCT 320 with grades of "C" or better, IS 301.
- ACCT 480 Accounting Systems & Data Processing (4)  
Prerequisites: IS 300, ACCT 300B, and ACCT 320 with grades of "C" or better.

Take one of the following:

- ACCT 351 Federal Tax Law (4)  
Prerequisites: ACCT 201 with a grade of "C" or better.
- ACCT 400 Advanced Accounting (4)  
Prerequisites: ACCT 300B with grade of "C" or better.

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List changes:

Adding paragraph about need to maintain major GPA of 2.0 or higher.

Remove STAT 108 from the lower division requirements.

Remove ACCT 320 from the upper-division business administration core and adding it to the accountancy option core.

Change ACCT 351 and ACCT 400 from both being required courses, to taking one or the other.

Roadmaps are required for all undergraduate degree programs with changes to be included in the formal certification. If the change does not affect the existing roadmap, please indicate no change.

Revised Roadmap Attached

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### PROGRAM - CHANGE

Program Name: Bachelor of Science in Business Administration – Finance

### CURRENT CATALOG TEXT –

#### Requirements

In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and

statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

1. Lower Division:

*Choose one of the following:*

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- STAT 108 Statistics for Everyday Life (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11 or MAPB 12.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

***Option in Finance (120 units)***

The Finance option provides an understanding of the role of finance in the corporate and international environment and an understanding of investments at both the corporate and personal level. This option provides an understanding of the role of finance in a business context, including the development of a comprehension of business ethics.

Students must take at least 51% of total required Finance units (for Finance Option), including FIN 300, at CSULB.

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**CHANGING INFORMATION:**

New Catalog Text:

**Requirements**

In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

All CBA majors must maintain major GPAs of 2.0 or higher. A student whose GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to raise their major GPA(s) to 2.0. Students who do not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the CBA Center for Student Success explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional semester must declare a new major.

1. Lower Division:

*Choose one of the following:*

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

***Option in Finance (120 units)***

The Finance option provides an understanding of the role of finance in the corporate and international environment and an understanding of investments at both the corporate and personal level. This option provides an understanding of the role of finance in a business context, including the development of a

comprehension of business ethics.

Students must take at least 51% of total required finance units (for finance options) at CSULB.

\*\*\*\*\*  
List changes:

Adding paragraph about need to maintain major GPA of 2.0 or higher.

Removing STAT 108 from the lower-division requirements.

Changing residency sentence under option in Finance.

Roadmaps are required for all undergraduate degree programs with changes to be included in the formal certification. If the change does not affect the existing roadmap, please indicate no change.

Revised Roadmap Attached

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**PROGRAM CHANGE:** Bachelor of Science in Business Administration – International Business

**CURRENT CATALOG TEXT –**

**Requirements**

In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

1. Lower Division:

*Choose one of the following:*

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- STAT 108 Statistics for Everyday Life (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11 or MAPB 12.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

***Option in International Business (120 units)***

**Requirements**

1. *Take all of the following:*

- ACCT 465 International Accounting (3)  
Prerequisites: ACCT 201, ACCT 202, IS 301.
- FIN 490 International Finance (3)  
Prerequisites: FIN 300, IS 301
- MKTG 480 International Marketing (3)  
Prerequisite: MKTG 300, IS 301.

*Take one of the following:*

- MGMT 405 International & Comparative Management (3)

Prerequisites: MGMT 300, IS 301.

- MGMT 406 International Business Policy (3)  
Prerequisite: MGMT 300, IS 301.

2. *Take one of the following courses:*

- BLAW 424, CBA 493 (subject to approval of the Program Director), CBA 494 (A or B), HRM 458, MKTG 481, and MGMT 405 or MGMT 406 (whichever was not taken in satisfaction of requirement #1)

3. Two years (4 semesters or 6 quarters finishing at the level of 201B or its equivalent) at the baccalaureate level of one of the following languages: Arabic, Chinese, French, German, Italian, Japanese, Portuguese, Russian, or Spanish. Under individual, special circumstances, the Director of the International Business Option may approve a language other than those listed above to satisfy the language requirement for a degree in the option.

4. Choice of the language will determine the country or geographic area of the world about which the student must study a minimum of 2 courses (6 units).

These will be in lieu of 6 other elective units, and can be double counted as part of the student's general education requirement, if approved to meet GE requirements.

### General Education or Elective Courses

*Select two courses* (6 units), appropriate for your choice of language:

All Languages:

- ANTH 412; COMM 330, 452; I/ST 317, I/ST 318, I/ST 319, I/ST 355; LING 413, LING 425, LING 470; POSC 371, POSC 485; WGSS 401.

Arabic:

- ARAB 250; CWL 402; GEOG 309L; HIST 394, HIST 428, HIST 432; POSC 367; R/ST 331.

Chinese:

- ANTH 332; A/ST 307, A/ST 310, A/ST 495; CHIN 301, CHIN 350, CHIN 370; CWL 403; HIST 382B, HIST 406A; POSC 362; R/ST 341.

French:

- CWL 330A,B; GEOG 316; HIST 337, HIST 339; POSC 353; FREN 335, FREN 336 or courses taken at a specified French university with which CSULB has an exchange agreement and taught by instructors from CSULB may be approved by the Director of the International Business Program in partial or full satisfaction of this requirement.

German:

- CWL 330A, CWL 330B; GEOG 316; HIST 337, HIST 339, HIST 437; POSC 353; GERM 380, GERM 415, GERM 416.

Italian:

- CWL 330A, CWL 330B; GEOG 316; HIST 337, HIST 339; POSC 353.

Japanese:

- ANTH 335; A/ST 307, A/ST 310; CWL 403; HIST 383B, HIST 384, HIST 406A, HIST 407; JAPN 350, JAPN 451, JAPN 471; R/ST 341, R/ST 344.

Portuguese or Spanish:

- ANTH 324, ANTH 432; CWL 440; HIST 364, HIST 462, HIST 463; POSC 358, POSC 481; SPAN 330, SPAN 335A, SPAN 335B, SPAN 341, SPAN 430, SPAN 445.

Russian:

- GEOG 318; HIST 341B; RUSS 310, RUSS 410.

## CHANGING INFORMATION

New Catalog Text:

### Requirements

In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

All CBA majors must maintain major GPAs of 2.0 or higher. A student whose GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to raise their major GPA(s) to 2.0. Students who do not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the CBA Center for Student Success explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional semester must declare a new major.

1. Lower Division:

*Choose one of the following:*

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

### ***Option in International Business (120 units)***

### Requirements

1. *Take all of the following:*

- ACCT 465 International Accounting (3)  
Prerequisites: ACCT 201, ACCT 202, IS 301.
- FIN 490 International Finance (3)  
Prerequisites: FIN 300, IS 301
- MKTG 480 International Marketing (3)  
Prerequisite: MKTG 300, IS 301.

*Take one of the following:*

- MGMT 405 International & Comparative Management (3)  
Prerequisites: MGMT 300, CBA 300, IS 301.
- MGMT 406 International Business Policy (3)  
Prerequisite: MGMT 300, CBA 300, IS 301.

2. *Take two of the following courses:*

- BLAW 424, CBA 493 (subject to approval of the Program Director), CBA 494 (A or B), HRM 458, MKTG 481, and MGMT 405 or MGMT 406 (whichever was not taken in satisfaction of requirement #1)

3. Nine units of upper-division GE capstone must be chosen from a list of courses with strong international emphasis. This list is available at the CBA Student Center for Success (CBA 100), from the Director of the

International Business Program, and online at <http://www.csulb.edu/colleges/cba/ib/majors/>.

\*\*\*\*\*

List changes:

Adding paragraph about need to maintain major GPA of 2.0 or higher.

Remove STAT 108 from lower-division requirements.

Remove language requirements from option core.

Increase elective courses from one to two courses required.

Remove the geographic area requirements from the option core and replace with a statement about selecting GE capstones with a strong international emphasis.

Remove the list of General Education or Elective Courses.

Roadmaps are required for all undergraduate degree programs with changes to be included in the formal certification. If the change does not affect the existing roadmap, please indicate no change.

Revised Roadmap Attached

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**PROGRAM – CHANGE** Bachelor of Science in Business Administration – Management Information Systems

#### **CURRENT CATALOG TEXT –**

##### **Requirements**

In order to graduate with a business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

##### **1. Lower Division:**

*Choose one of the following:*

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- STAT 108 Statistics for Everyday Life (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11 or MAPB 12.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

.....

#### **CHANGING INFORMATION**

New Catalog Text:

##### **Requirements**

In order to graduate with a business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

All CBA majors must maintain major GPAs of 2.0 or higher. A student whose GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to

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raise their major GPA(s) to 2.0. Students who do not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the CBA Center for Student Success explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional semester must declare a new major.

1. Lower Division:

*Choose one of the following:*

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

\*\*\*\*\*

List changes:

Adding paragraph about need to maintain major GPA of 2.0 or higher.

Remove STAT 108 from the lower division requirement.

Roadmaps are required for all undergraduate degree programs with changes to be included in the formal certification. If the change does not affect the existing roadmap, please indicate no change.

Revised Roadmap Attached

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#### **PROGRAM – CHANGE** Minor in Management Information Systems

#### **CURRENT CATALOG TEXT –**

##### **Requirements**

For Non-Business Students only (*NOTE:* the IS 301 pre-requisite requirement is waived for the minor).

1. *Take the following course:*

- IS 300 Management Information Systems (3)  
Prerequisite: IS 233 or equivalent.

2. *Take 15 units selected from the following:*

- IS 320, IS 331, IS 340, IS 355, IS 380, IS 385, IS 445, IS 455, IS 456, IS 464, IS 470, IS 480, IS 482, IS 483, IS 484, and IS 485.

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#### **CHANGING INFORMATION**

New Catalog Text:

##### **Requirements**

For Non-Business Students only (*NOTE:* the IS 301 pre-requisite requirement is waived for the minor).

1. *Take the following course:*

- IS 300 Management Information Systems (3)  
Prerequisite: IS 233 or equivalent.

2. *Take 15 units selected from the following:*

- IS 320, IS 331, IS 340, IS 355, IS 380, IS 385, IS 445, IS 455, IS 456, IS 457, IS 464, IS 470, IS 480, IS 482, IS 483, IS 484, and IS 485.

\*\*\*\*\*

List changes:

Adding IS 457 to the pool of electives.

Roadmaps are required for all undergraduate degree programs with changes to be included in the formal certification. If the change does not affect the existing roadmap, please indicate no change.

Revised Roadmap Attached

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## PROGRAM - CHANGE

Program Name: Business Administration BS – Option in Management

### CURRENT CATALOG TEXT –

Requirements

1. Take the following courses:

MGMT 454 Organization Theory (3)

Prerequisites: MGMT 300, IS 301.

2. Take 15 units selected from the following:

MGMT 326, MGMT 405, MGMT 406, MGMT 412, MGMT 413, MGMT 421, MGMT 430, MGMT 455, MGMT 456; SCM 410, SCM 411, SCM 414; HRM 361, HRM 446.

.....

## CHANGING INFORMATION

New Catalog Text:

Requirements

1. Take the following courses:

MGMT 454 Organization Theory (3)

Prerequisites: MGMT 300, IS 301.

2. Take 15 units selected from the following:

MGMT 326, MGMT 405, MGMT 406, MGMT 412, MGMT 413, MGMT 421, MGMT 430, MGMT 455, MGMT 456; SCM 410, SCM 411, SCM 414; HRM 361, HRM 446, CBA 494 (A or B), CBA 485.

\*\*\*\*\*

List changes:

Add CBA 494 and CBA 485 to the list of electives.

Revised Roadmap Attached

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**PROGRAM CHANGE** Business Administration BS – Management, Human Resource Management, and Operations & Supply Chain Management

### CURRENT CATALOG TEXT –

Requirements

In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

1. Lower Division:

*Choose one of the following:*

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- STAT 108 Statistics for Everyday Life (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11 or MAPB 12.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

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**CHANGING INFORMATION**

New Catalog Text:

**Requirements**

In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

All CBA majors must maintain major GPAs of 2.0 or higher. A student whose GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to raise their major GPA(s) to 2.0. Students who do not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the CBA Center for Student Success explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional semester must declare a new major.

1. Lower Division:

*Choose one of the following:*

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

\*\*\*\*\*

List changes:

Adding paragraph about need to maintain major GPA of 2.0 or higher.

Remove STAT 108 from the lower-division requirements.

Revised Roadmap Attached

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## PROGRAM - CHANGE

Program Name: Minor in Entrepreneurship

### CURRENT CATALOG TEXT –

#### Requirements

For Non-Business Students only (NOTE: the IS 301 pre-requisite requirement is waived for the minor).

##### 1. Take the following courses:

- MGMT 300 Principles of Management and Operations (3)  
Prerequisite: None.
- MGMT 421 Entrepreneurship & New Venture Creation (3)  
Prerequisites: MGMT 300.

##### 2. 12 units selected from:

ACCT 201; BLAW 320; CBA 300; FIN 300, FIN 340, FIN 495; HRM 360, HRM 361; IS 300, IS 355, IS 380, IS 445, IS 483, IS 484; MKTG 300, MKTG 310, MKTG 330, MKTG 410, MKTG 430, MKTG 465, MKTG 480, MKTG 490, MKTG 492, MKTG 495; MGMT 495 (two topics) as approved by the Management area of the Management/HRM Department.

### CHANGING INFORMATION

New Catalog Text:

#### Requirements

For Non-Business Students only (NOTE: the IS 301 pre-requisite requirement is waived for the minor).

##### 1. Take the following courses:

- MGMT 300 Principles of Management and Operations (3)  
Prerequisite: None.
- MGMT 421 Entrepreneurship & New Venture Creation (3)  
Prerequisites: MGMT 300.

##### 2. 12 units selected from:

ACCT 201; BLAW 320; CBA 300; FIN 300, FIN 340; HRM 360, HRM 361; IS 233, IS 300, IS 340, IS 355, IS 380, IS 445, IS 483, IS 484; MKTG 300, MKTG 310, MKTG 330, MKTG 410, MKTG 430, MKTG 465, MKTG 480, MKTG 490, MKTG 492, MKTG 495; MGMT 495 (two topics) as approved by the Management area of the Management/HRM Department.

Students may not take more than two elective courses from any one prefix category.

\*\*\*\*\*  
List changes:

Removing FIN 495 from the list of electives.

Adding IS 233 and IS 340 to the list of electives.

Adding requirement that students may not take more than two elective courses from any one prefix category.

Revised Roadmap Attached

## **PROGRAM - CHANGE**

Program Name: Minor in Human Resource Management

### **CURRENT CATALOG TEXT –**

#### **Requirements**

For Non-Business Students only (NOTE: the IS 301 pre-requisite requirement is waived for the minor).

1. Take the following courses:

HRM 360 Organizational Behavior (3)

Prerequisite: None

HRM 361 The Human Resource Function (3)

Prerequisite: None

2. 12 units selected from the following:

HRM 440, HRM 445, HRM 446, HRM 458, HRM 460, HRM 462, HRM 463, HRM 465; MGMT 405.

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### **CHANGING INFORMATION**

New Catalog Text:

#### **Requirements**

For Non-Business Students only (NOTE: the IS 301 pre-requisite requirement is waived for the minor).

1. Take the following courses:.
- 2.

HRM 360 Organizational Behavior (3)

Prerequisite: None

HRM 361 The Human Resource Function (3)

Prerequisite: None

2. 12 units selected from the following:

HRM 440, HRM 445, HRM 446, HRM 458, HRM 460, HRM 462, HRM 463, HRM 465.

\*\*\*\*\*

List changes:

Removing MGMT 405 from the list of electives.

Revised Roadmap Attached

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## **PROGRAM - CHANGE**

Program Name: Bachelor of Science in Business Administration – Marketing

### **CURRENT CATALOG TEXT –**

#### **Requirements**

In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

1. Lower Division:

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- STAT 108 Statistics for Everyday Life (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11 or MAPB 12.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

**Option in Marketing (120 units)**

This option establishes that marketing is largely a social process, emphasizing that enterprises meet the needs of individuals or segments of society. The function of marketing is to determine those needs, provide the most effective means of informing actual and potential customers of the availability of services and goods, and deliver such services and goods.

CBA students with the Marketing option studying abroad will need a minimum of 50% of the courses (MKTG 494 plus two electives) to be taken at CSULB.

**Requirements**

1. *Nine units selected from the following courses:*

- MKTG 310, MKTG 330, MKTG 410, MKTG 420, MKTG 430, MKTG 437, MKTG 465, MKTG 480, MKTG 481, MKTG 492; CBA 493 (subject to approval of the Department Chair).

2. *Take the following courses:*

- MKTG 470 Marketing Research (3)  
Prerequisites: MKTG 300; IS 301, IS 310.
- MKTG 490 Consumer Behavior (3)  
Prerequisites: MKTG 300, IS 301.
- MKTG 494 Marketing Management (3)  
Prerequisites: MKTG 300, IS 301; senior marketing majors or consent of instructor.

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**CHANGING INFORMATION**

**Requirements**

In order to graduate with an undergraduate business degree from CSULB, a student must complete a minimum of 120 units. A majority of the upper division business courses, including economics and statistics, must be completed at this university. For details, refer to the CBA Policy on Course Transfers/Substitutions.

All CBA majors must maintain major GPAs of 2.0 or higher. A student whose GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to raise their major GPA(s) to 2.0. Students who do not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the CBA Center for Student Success explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional semester must declare a new major.

1. Lower Division:

- STAT 118 Intro to Business Statistics (3)  
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.
- MATH 114 Finite Mathematics (3)  
Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 11.

Students planning business options should take STAT 118.

### ***Option in Marketing (120 units)***

This option establishes that marketing is largely a social process, emphasizing that enterprises meet the needs of individuals or segments of society. The function of marketing is to determine those needs, provide the most effective means of informing actual and potential customers of the availability of services and goods, and deliver such services and goods.

CBA students with the Marketing option will need to take minimum 12 units of Marketing courses at CSULB.

### **Requirements**

1. *Nine units selected from the following courses:*

- MKTG 310, MKTG 330, MKTG 350, MKTG 405, MKTG 410, MKTG 420, MKTG 430, MKTG 437, MKTG 465, MKTG 480, MKTG 481, MKTG 492; CBA 493 (subject to approval of the Department Chair).

2. *Take the following courses:*

- MKTG 470 Marketing Research (3)  
Prerequisites: MKTG 300; IS 301, IS 310.
- MKTG 490 Consumer Behavior (3)  
Prerequisites: MKTG 300, IS 301.
- MKTG 494 Marketing Management (3)  
Prerequisites: MKTG 300, IS 301; senior marketing majors or consent of instructor.

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List changes:

Adding paragraph about need to maintain major GPA of 2.0 or higher.

Removing STAT 108 for the lower division requirements.

Changing residency statement under option core.

Adding MKTG 350 and MKTG 405 to the pool of electives for the Marketing option.

Revised roadmap attached.

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### **PROGRAM - CHANGE**

Program Name: Minor in Marketing

### **CURRENT CATALOG TEXT –**

### **Requirements**

For Non-Business Students only (*NOTE: the IS 301 prerequisite requirement is waived for the minor*).

1. *Take the following course:*

- MKTG 300 Marketing (3)  
Recommended: ECON 100, ECON 101.

2. 15 units selected from the following courses:

- MKTG 310, MKTG 330, MKTG 410, MKTG 420, MKTG 430, MKTG 437, MKTG 465, MKTG 470, MKTG 480, MKTG 481, MKTG 490, MKTG 492, MKTG 494; CBA 300 as approved by department.

#### **Prerequisites**

1. IS 310 is a prerequisite for MKTG 470;
2. MKTG 300 is a prerequisite for MKTG 410, MKTG 420, MKTG 430, MKTG 437, MKTG 465, MKTG 470, MKTG 480, MKTG 481, MKTG 490, MKTG 492, and MKTG 494.

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#### **CHANGING INFORMATION**

New Catalog Text:

#### **Requirements**

For Non-Business Students only (*NOTE: the IS 301 prerequisite requirement is waived for the minor*).

1. *Take the following course:*

- MKTG 300 Marketing (3)  
Recommended: ECON 100, ECON 101.

2. 15 units selected from the following courses:

- MKTG 310, MKTG 330, MKTG 350, MKTG 405, MKTG 410, MKTG 420, MKTG 430, MKTG 437, MKTG 465, MKTG 470, MKTG 480, MKTG 481, MKTG 490, MKTG 492, MKTG 494; CBA 300 and CBA 493 as approved by department.

#### **Prerequisites**

1. IS 310 is a prerequisite for MKTG 470;
2. MKTG 300 is a prerequisite for MKTG 410, MKTG 420, MKTG 430, MKTG 437, MKTG 465, MKTG 470, MKTG 480, MKTG 481, MKTG 490, MKTG 492, and MKTG 494.

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List changes:

Adding MKTG 350 to the pool of electives.

Adding MKTG 405 to the pool of electives.

Adding CBA 493 to the pool of electives, as approved by department.

Revised Roadmap Attached

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END.

CALIFORNIA STATE UNIVERSITY, LONG BEACH

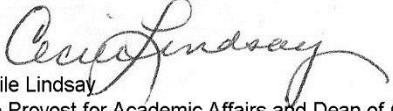
Office of the Vice Provost for Academic Affairs and  
Dean of Graduate Studies

December 19, 2014

**CERTIFICATION 15 - 03**

The following changes to the curriculum have completed the University review processes. New and changed courses will become effective Fall 2015 unless otherwise noted on the curriculum form. Changed program requirements will become effective Fall 2015.

Certified:

  
Cecile Lindsay  
Vice Provost for Academic Affairs and Dean of Graduate Studies

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**COLLEGE OF EDUCATION**

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**PREFIX- NEW**

Requested Prefix: UDCP

Prefix full title: Urban Dual Credential Program

What department is administratively responsible? Liberal Studies

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**COURSE – NEW – LOWER DIVISION**

LST 111. Critical Thinking and Public Education (3)

Prerequisite: ENGL 100 or GE Composition (Area A1)

Introduction to critical thinking; analysis of historical, contemporary and global views of public education. Development of seminar skills: preparation of analytical essays and oral presentations, examination of models and techniques of reasoning applied to issues in education.

Letter grade only (A-F)

3 units @ C-3

Articulation wanted, transfer course may meet goals

=====

END.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH**

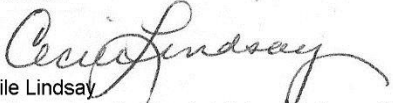
**Office of the Vice Provost for Academic Affairs and  
Dean of Graduate Studies**

December 19, 2014

**CERTIFICATION 15 - 04**

The following changes to the curriculum have completed the University review processes. New and changed courses will become effective Fall 2015 unless otherwise noted on the curriculum form. Changed program requirements will become effective Fall 2015.

Certified:

  
Cecile Lindsay  
Vice Provost for Academic Affairs and Dean of Graduate Studies

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**COLLEGE OF ENGINEERING**

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**PROGRAM CHANGE** Bachelor of Science in Civil Engineering  
**CURRENT CATALOG TEXT**

Bachelor of Science in Civil Engineering (120 units)

Upper Division:

Take all of the following:

- CE 335 Fluid Mechanics (3)  
Prerequisites: MATH 224 and C E 205 all with a grade of "C" or better.
- CE 345 Geotechnical Engineering I (3)  
Prerequisite: Consent of Department Undergraduate Advisor.  
Corequisites: MAE 373; GEOL 370.
- CE 346 Geotechnical Engineering Laboratory (1)  
Prerequisite: ENGL 100 or GE Composition (Area A1) with a grade of "C" or better.  
Corequisite: CE 345.
- CE 359 Structural Analysis I (3)  
Prerequisite: MAE 373 with a grade of "C" or better.
- CE 364 Environmental Engineering (3)  
Prerequisites: CHEM 111A, BIOL 200/MICR 200 with a grade of "C" or better.  
Prerequisite/Corequisite: CE 335.
- CE 406 Project Cost-Benefit Analysis (3)  
Prerequisite: GE Foundation requirements.
- CE 407 Probability & Statistics in Civil Engineering (2)  
Prerequisites: CE 206 and MATH 224 all with a grade of "C" or better.
- CE 426 Transportation Engineering (3)  
Prerequisite: CE 345 with a grade of "C" or better.  
Corequisite: CE 406.
- CE 437 Engineering Hydraulics (3)  
Prerequisites: C E 335, MATH 370A all with a grade of "C" or better.
- CE 459 Reinforced Concrete Design I (3)  
Prerequisites: C E 200 and 359 all with a grade of "C" or better.
- CE 481 Professional Practice in Civil Engineering (1)  
Prerequisite: Senior standing.
- CE 490 Senior Design Project (3)  
Prerequisite: CE 459; completion of all 300-level engineering courses for the civil engineering major all with a grade of "C" or better and consent of department undergraduate advisor. Prerequisite/Corequisite: CE 426, CE 437. Normally taken in the last year of the undergraduate program.
- ECON 300 Fundamentals of Economics (3)  
Prerequisites: GE Foundation requirements.
- GEOL 370 Geology for Engineers (2)  
Prerequisites: CE 200.

- MATH 370A Applied Mathematics I (3)  
Prerequisites: A grade of "C" or better in MATH 123. Not open to Freshmen.
- MAE 330 Engineering Thermodynamics I (3)  
Prerequisites: MATH 224, PHYS 151 or equivalent, and CHEM 111A all with a grade of "C" or better or consent of instructor.
- MAE 371 Analytical Mechanics II (Dynamics) (3)  
Prerequisites: CE 205, MAE 205 or CE 206 all with a grade of "C" or better.
- MAE 373 Mechanics of Deformable Bodies (3)  
Prerequisite: CE 205 with a grade of "C" or better.

Take six units of electives courses from:

- CE 427, CE 428, CE 429/429L, CE 435, CE 438/438L, CE 439, CE 445, CE 446, CE 455, CE 456, CE 457, CE 458, CE 464, CE 466, CE 495

Take two laboratories from:

- CE 326, CE 336, CE 365, CE 454, MAE 374

A grade of "C" or better must be achieved in the required courses below:

- CHEM 111A, MATH 122, MATH 123, MATH 224, MATH 370A, BIOL 200, MICR 200, PHYS 151, ECON 300, MAE 172, MAE 373, CE 130, CE 130L, CE 200, CE 205, CE 206, CE 335, CE 345, CE 359, CE 406, CE 459 and CE 490.

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## **CHANGING INFORMATION**

New Catalog Text:

Upper Division:

Take all of the following:

- CE 325 Transportation Safety and Sustainability (3)  
Prerequisites: GE Foundation requirements.
- CE 335 Fluid Mechanics (3)  
Prerequisites: MATH 224 and CE 205 all with a grade of "C" or better.
- CE 345 Geotechnical Engineering I (3)  
Prerequisite: Consent of Department Undergraduate Advisor.  
Corequisites: MAE 373; GEOL 370.
- CE 346 Geotechnical Engineering Laboratory (1)  
Prerequisite: ENGL 100 or GE Composition (Area A1) with a grade of "C" or better.  
Corequisite: CE 345.
- CE 359 Structural Analysis I (3)  
Prerequisite: MAE 373 with a grade of "C" or better.
- CE 364 Environmental Engineering (3)  
Prerequisites: CHEM 111A, BIOL 200/MICR 200 with a grade of "C" or better.  
Prerequisite/Corequisite: CE 335.
- CE 406 Project Cost-Benefit Analysis (3)  
Prerequisite: GE Foundation requirements.
- CE 407 Probability & Statistics in Civil Engineering (2)  
Prerequisites: CE 206 and MATH 224 all with a grade of "C" or better.
- CE 426 Transportation Engineering (3)  
Prerequisite: CE 345 with a grade of "C" or better.  
Corequisite: CE 406.
- CE 437 Engineering Hydraulics (3)  
Prerequisites: CE 335, MATH 370A all with a grade of "C" or better.
- CE 459 Reinforced Concrete Design I (3)  
Prerequisites: CE 200 and 359 all with a grade of "C" or better.
- CE 481 Professional Practice in Civil Engineering (1)  
Prerequisite: Senior standing.
- CE 490 Senior Design Project (3)  
Prerequisite: CE 459; completion of all 300-level engineering courses for the civil engineering major all with a grade of "C" or better and consent of department undergraduate advisor. Prerequisite/Corequisite: CE 426, CE 437. Normally taken in the last year of the undergraduate program.
- GEOL 370 Geology for Engineers (2)  
Prerequisites: CE 200.
- MATH 370A Applied Mathematics I (3)  
Prerequisites: A grade of "C" or better in MATH 123. Not open to Freshmen.
- MAE 330 Engineering Thermodynamics I (3)  
Prerequisites: MATH 224, PHYS 151 or equivalent, and CHEM 111A all with a grade of "C" or better or consent of instructor.
- MAE 371 Analytical Mechanics II (Dynamics) (3)  
Prerequisites: CE 205, MAE 205 or CE 206 all with a grade of "C" or better.
- MAE 373 Mechanics of Deformable Bodies (3)

Prerequisite: CE 205 with a grade of "C" or better.

Take six units of electives courses from:

- CE 427, CE 428, CE 429/ CE 429L, CE 435, CE 438/ CE 438L, CE 439, CE 445, CE 446, CE 455, CE 456, CE 457, CE 458, CE 464, CE 466, CE 495

Take two laboratories from:

- CE 326, CE 336, CE 365, CE 454, MAE 374

A grade of "C" or better must be achieved in the required courses below:

- CHEM 111A, MATH 122, MATH 123, MATH 224, MATH 370A, BIOL 200, MICR 200, PHYS 151, MAE 172, MAE 373, CE 130, CE 130L, CE 200, CE 205, CE 206, CE 325, CE 335, CE 345, CE 359, CE 406, CE 459 and CE 490.

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List changes:

Upper Division:

Remove ECON 300 and replace with CE 325

Remove ECON 300 in A grade of "C" or better must be achieved in the required courses below and replace with CE 325.

Roadmaps are required for all undergraduate degree programs with changes to be included in the formal certification. If the change does not affect the existing roadmap, please indicate no change.

Revised Roadmap Attached

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#### **COURSE – NEW – LOWER DIVISION**

CECS 229. Discrete Structures with Computing Applications II (3)

Prerequisites: MATH 123 and CECS 228 both with a Grade of "C" or better

This is the second course in a two-course sequence in computing applications of discrete structures. Topics include applications of computer arithmetic and matrices in computer systems. Programming assignments in Python will be provided.

Letter grade only (A-F). (Lecture 2 hours, Laboratory 3 hours)

2 units @ C-4 and 1 unit @ C-16

Articulation wanted, transfer courses may meet goals.

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#### **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: CECS 262 C for Embedded Programming 2 units @ C-4 and 1 unit @ C-16

#### **Items Changing:**

Course Title: Introduction to Embedded System Programming

**ARTICULATION** – Articulation ends.

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**PROGRAM CHANGE** Bachelor of Science in Computer Engineering

#### **CURRENT CATALOG TEXT –**

Requirements

Lower Division:

Take all of the following courses:

CECS 100 Critical Thinking in the Digital Information Age (3)  
Prerequisite/Corequisite: ENGL 100 or its equivalent all with a grade of "C" or better.  
CECS 105 Introduction to Computer Engineering and Computer Science (1)  
Prerequisites: None.  
CECS 174 Introduction to Programming and Problem Solving (3)  
Prerequisite: CECS 100 and MATH 113 (or equivalent) all with a grade of "C" or better.  
CECS 201 Computer Logic Design I (3)  
Prerequisite: MATH 113 or equivalent all with a grade of "C" or better.  
CECS 211 Principles of Computer Engineering I (3)  
Prerequisite: MATH 122 with a grade of "C" or better.  
CECS 228 Discrete Structures With Computing Applications I (3)  
Prerequisites: CECS 174 and MATH 113 or equivalent all with a grade of "C" or better.  
CECS 262 C for Embedded Programming (3)  
Prerequisites: CECS 174 and CECS 201 all with a grade of "C" or better.  
CECS 271 Introduction to Numerical Methods (3)  
Prerequisites: CECS 174 and MATH 123 all with a grade of "C" or better.  
CECS 274 Object Oriented Programming and Data Structures (3)  
Prerequisite: CECS 174 with a grade of "C" or better.  
CECS 282 C++ for Java Programmers (3)  
Prerequisite: CECS 274 with a grade of "C" or better.  
ENGR 101 Intro to the Engineering Profession (1)  
Prerequisite/Corequisite: MATH 111 or MATH 113 or MATH 122.  
ENGR 102 Academic Success Skill (1)  
Prerequisite: ENGR 101 with a grade of "C" or better.  
MATH 122 Calculus I (4)  
Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.  
MATH 123 Calculus II (4)  
Prerequisite: A grade of "C" or better in MATH 122.  
PHYS 151 Mechanics and Heat (4)  
Prerequisite/Corequisite: MATH 122.

Take one of the following choices:

PHYS 152 Electricity and Magnetism (4)  
Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

or both of the following:

EE 210 Electro-Magnetic Foundations in EE (3)  
Prerequisite: PHYS 151 with a grade of "C" or better. Corequisites: MATH 123, EE 210L.  
EE 210L Electro-Magnetic Foundations in EE Lab (1)  
Corequisite: EE 210.

A Math Elective – Take three units of approved elective to be selected from:  
MATH 224 or MATH 247

A Science Elective – Take four units of approved elective to be selected from:  
BIOL 200, PHYS 254 and PHYS 255, CHEM 111A

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## **CHANGING INFORMATION**

New Catalog Text:

Requirements

Lower Division:

Take all of the following courses:

CECS 100 Critical Thinking in the Digital Information Age (3)  
Prerequisite/Corequisite: ENGL 100 or its equivalent all with a grade of "C" or better.  
CECS 105 Introduction to Computer Engineering and Computer Science (1)  
Prerequisites: None.  
CECS 174 Introduction to Programming and Problem Solving (3)

Prerequisite: CECS 100 and MATH 113 (or equivalent) all with a grade of "C" or better.  
 CECS 201 Computer Logic Design I (3)  
 Prerequisite: MATH 113 or equivalent all with a grade of "C" or better.  
 CECS 211 Principles of Computer Engineering I (3)  
 Prerequisite: MATH 122 with a grade of "C" or better.  
 CECS 228 Discrete Structures With Computing Applications I (3)  
 Prerequisites: CECS 174 and MATH 113 or equivalent all with a grade of "C" or better.  
 CECS 229 Discrete Structures With Computing Applications II (3)  
 Prerequisites: MATH 123 and CECS 228 all with a grade of "C" or better.  
 CECS 262 C for Embedded Programming (3)  
 Prerequisites: CECS 174 and CECS 201 all with a grade of "C" or better.  
 CECS 271 Introduction to Numerical Methods (3)  
 Prerequisites: CECS 174 and MATH 123 all with a grade of "C" or better.  
 CECS 274 Object Oriented Programming and Data Structures (3)  
 Prerequisite: CECS 174 with a grade of "C" or better.  
 CECS 282 C++ for Java Programmers (3)  
 Prerequisite: CECS 274 with a grade of "C" or better.  
 ENGR 101 Intro to the Engineering Profession (1)  
 Prerequisite/Corequisite: MATH 111 or MATH 113 or MATH 122.  
 ENGR 102 Academic Success Skill (1)  
 Prerequisite: ENGR 101 with a grade of "C" or better.  
 MATH 122 Calculus I (4)  
 Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.  
 MATH 123 Calculus II (4)  
 Prerequisite: A grade of "C" or better in MATH 122.  
 PHYS 151 Mechanics and Heat (4)  
 Prerequisite/Corequisite: MATH 122.

Take one of the following choices:

PHYS 152 Electricity and Magnetism (4)  
 Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

or both of the following:

EE 210 Electro-Magnetic Foundations in EE (3)  
 Prerequisite: PHYS 151 with a grade of "C" or better. Corequisites: MATH 123, EE 210L.  
 EE 210L Electro-Magnetic Foundations in EE Lab (1)  
 Corequisite: EE 210.

A Science Elective – Take four units of approved elective to be selected from:

BIOL 200, PHYS 254 and PHYS 255, CHEM 111A

List changes:

Remove 3 units of MATH elective from Lower Division Requirements  
 Add 3 units of CECS 229 Discrete Structures with Computing Applications II to Lower Division Requirements

Revised Roadmap Attached

## **PROGRAM CHANGE Bachelor of Science in Computer Science**

### **CURRENT CATALOG TEXT**

Requirements

Lower Division:

Take all of the following courses:

CECS 100 Critical Thinking in the Digital Information Age (3)  
 Prerequisite/Corequisite: ENGL 100 or GE Composition (Area A1).  
 CECS 105 Introduction to Computer Engineering and Computer Science (1)  
 Prerequisites: None.  
 CECS 174 Introduction to Programming and Problem Solving (3)  
 Prerequisite: CECS 100 and MATH 113 (or equivalent) all with a grade of "C" or better.  
 CECS 201 Computer Logic Design I (3)  
 Prerequisite: MATH 113 or equivalent all with a grade of "C" or better.  
 CECS 228 Discrete Structures With Computing Applications I (3)  
 Prerequisites: CECS 174 and MATH 113 or equivalent all with a grade of "C" or better.  
 CECS 274 Object Oriented Programming and Data Structures (3)  
 Prerequisite: CECS 174 with a grade of "C" or better.  
 CECS 277 Object Oriented Application Development (3)

Prerequisite: CECS 274 with a grade of "C" or better.  
CECS 282 C++ for Java Programmers (3)  
Prerequisite: CECS 274 with a grade of "C" or better.  
CECS 285 Computer Organization and Assembly Language Programming (3)  
Prerequisites: CECS 201, CECS 274 all with a grade of "C" or better.  
ENGR 101 Intro to the Engineering Profession (1)  
Prerequisite/Corequisite: MATH 111 or MATH 113 or MATH 122.  
ENGR 102 Academic Success Skills (1)  
Prerequisite: ENGR 101 with a grade of "C" or better.  
MATH 122 Calculus I (4)  
Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.  
MATH 123 Calculus II (4)  
Prerequisite: A grade of "C" or better in MATH 122.

Three units of math elective taken from the following:

MATH 224 Calculus III (4)  
Prerequisite: A grade of "C" or better in MATH 123 or MATH 222.  
MATH 233 Fundamental Concepts for Adv. Math (3)  
Prerequisite: A grade of "C" or better in MATH 123 or MATH 222.  
MATH 247 Introduction to Linear Algebra (3)  
Prerequisite: MATH 123 or MATH 222.

Take a minimum of 12 units of approved science-electives to include a two-semester science sequence chosen from the following groups of courses:

PHYS 151 Mechanics and Heat (4)  
Prerequisite/Corequisite: MATH 122.  
PHYS 152 Electricity and Magnetism (4)  
Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

or

PHYS 151 Mechanics and Heat (4)  
Prerequisite/Corequisite: MATH 122.  
EE 210 Electro-Magnetic Foundations in EE (3)  
Prerequisite: PHYS 151 with a grade of "C" or better.  
Corequisites: MATH 123, EE 210L.  
EE 210L Electro-Magnetic Foundations in EE Lab (1)  
Corequisite: EE 210.

or

CHEM 111A General Chemistry (5)  
Prerequisites: A passing score on the Chemistry Placement Examination.  
Corequisite: MATH 109 or higher.  
CHEM 111B General Chemistry (5)  
Prerequisites: CHEM 111A and MATH 113 or MATH 115 or MATH 117 or MATH 119A or MATH 122 all with a grade of "C" or better.

Remaining units to be chosen from the following:

BIOL 153, BIO 200, BIO 205, BIO 207.

.....  
**CHANGING INFORMATION**

New Catalog Text:

**Requirements**

Lower Division:

Take all of the following courses:

CECS 100 Critical Thinking in the Digital Information Age (3)  
Prerequisite/Corequisite: ENGL 100 or GE Composition (Area A1).  
CECS 105 Introduction to Computer Engineering and Computer Science (1)  
Prerequisites: None.  
CECS 174 Introduction to Programming and Problem Solving (3)  
Prerequisite: CECS 100 and MATH 113 (or equivalent) all with a grade of "C" or better.  
CECS 201 Computer Logic Design I (3)  
Prerequisite: MATH 113 or equivalent all with a grade of "C" or better.  
CECS 228 Discrete Structures With Computing Applications I (3)  
Prerequisites: CECS 174 and MATH 113 or equivalent all with a grade of "C" or better.  
CECS 229 Discrete Structures with Computing Applications II (3)  
Prerequisites: MATH 123 and CECS 228 all with a grade of "C" or better.  
CECS 274 Object Oriented Programming and Data Structures (3)  
Prerequisite: CECS 174 with a grade of "C" or better.  
CECS 277 Object Oriented Application Development (3)  
Prerequisite: CECS 274 with a grade of "C" or better.

CECS 282 C++ for Java Programmers (3)  
 Prerequisite: CECS 274 with a grade of "C" or better.  
 CECS 285 Computer Organization and Assembly Language Programming (3)  
 Prerequisites: CECS 201, CECS 274 all with a grade of "C" or better.  
 ENGR 101 Intro to the Engineering Profession (1)  
 Prerequisite/Corequisite: MATH 111 or MATH 113 or MATH 122.  
 ENGR 102 Academic Success Skills (1)  
 Prerequisite: ENGR 101 with a grade of "C" or better.  
 MATH 122 Calculus I (4)  
 Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.  
 MATH 123 Calculus II (4)  
 Prerequisite: A grade of "C" or better in MATH 122.

Take a minimum of 12 units of approved science-electives to include a two-semester science sequence chosen from the following groups of courses:

PHYS 151 Mechanics and Heat (4)  
 Prerequisite/Corequisite: MATH 122.  
 PHYS 152 Electricity and Magnetism (4)  
 Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

or

PHYS 151 Mechanics and Heat (4)  
 Prerequisite/Corequisite: MATH 122.  
 EE 210 Electro-Magnetic Foundations in EE (3)  
 Prerequisite: PHYS 151 with a grade of "C" or better.  
 Corequisites: MATH 123, EE 210L.  
 EE 210L Electro-Magnetic Foundations in EE Lab (1)  
 Corequisite: EE 210.

or

CHEM 111A General Chemistry (5)  
 Prerequisites: A passing score on the Chemistry Placement Examination.  
 Corequisite: MATH 109 or higher.  
 CHEM 111B General Chemistry (5)  
 Prerequisites: CHEM 111A and MATH 113 or MATH 115 or MATH 117 or MATH 119A or MATH 122 all with a grade of "C" or better.

Remaining units to be chosen from the following:

BIOL 153, BIO 200, BIO 205, BIO 207.

List changes:

Remove 3 units of MATH elective from Lower Division Requirements  
 Add 3 units of CECS 229 Discrete Structures with Computing Applications II to Lower Division Requirements

Revised Roadmap Attached

## **COURSE – NEW – LOWER DIVISION**

EE186. Introduction to Programming and Applications for Electrical Engineers (3)

Intro Prog & Appl Electr Engr

Prerequisite/Corequisite: ENGL100 or equivalent

Introduction to programming using the C language, with emphasis on electrical engineering applications. Variables, conditional control flow loops, functions and program structure, pointers and arrays, input/output processing. Introduction to embedded system applications and development platforms.

Letter Grade only (A-F). (Lecture 2 hours, laboratory 3 hours).

2 units @ C-4 and 1 unit @ C-16

Articulation wanted, transfer course may meet goals.

## **COURSE – CHANGE – LOWER DIVISION**

**Items Changing:**

Prerequisite(s): MATH 123 with a grade of "C" or better

**ARTICULATION** – Minimal change. No articulation review necessary.

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**PROGRAM CHANGE** Bachelor of Science in Electrical Engineering  
**CURRENT CATALOG TEXT** –

Requirements

Core:

Take all the following courses:

CECS 100 Critical Thinking in the Digital Information Age (or equivalent) (3)

Prerequisite/Corequisite: ENGL 100 or its equivalent

EE 202 Computer Methods in Engineering (3)

Prerequisites: CECS 100 and MATH 123 all with a grade of "C" or better.

PHYS 254 Applied Modern Physics (3)

Prerequisite: PHYS 152 or EE 210; Prerequisite/Corequisite: MATH 224.

EE 346 Microprocessor Principles and Applications (3)

Prerequisites: EE 201, (CECS 100 or equivalent) all with a grade of "C" or better.

EE 380 Probability, Statistics & Stochastic Modeling (3)

Prerequisites: MATH 123; (CECS 100 or equivalent) all with a grade of "C" or better.

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**CHANGING INFORMATION**

New Catalog Text:

Requirements

Core:

Take all of the following courses:

EE 186 Introduction to Programming and Applications for Electrical Engineers (3)

Prerequisite/Corequisite: ENGL 100.

EE 202 Computer Methods in Engineering (3)

Prerequisites: MATH 123 with a grade of "C" or better.

EE 346 Microprocessor Principles and Applications (3)

Prerequisites: EE 201, EE 202, with a grade of "C" or better.

EE 380 Probability, Statistics & Stochastic Modeling (3)

Prerequisites: MATH 123; (EE 202 or CECS 271 or CECS 274) all with a grade of "C" or better.

Select one course from the following:

PHYS 254 Applied Modern Physics (3)

Prerequisite: PHYS 152 or EE 210; Prerequisite/Corequisite: MATH 224.

EE 220 Materials Sciences for Electrical Engineers (3)

Prerequisites: MATH 224 and (EE 210 and EE 210L) all with a grade of "C" or better

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List changes:

Remove CECS 100 from requirements

Add EE 186 to requirements

Remove prerequisite CECS 100 from EE 202

Replace prerequisite CECS 100 by EE 202 for EE 346

Replace prerequisite (CECS 100 or equivalent) by (EE 202 or CECS 271 or CECS 274) for EE 380

Add EE 220 as an alternative to PHYS 254

Revised Roadmap Attached

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**PROGRAM CHANGE** Program Name: Bachelor of Science in Engineering  
Option in Biomedical and Clinical Engineering (129 units)

**CURRENT CATALOG TEXT**

Bachelor of Science in Engineering

Option in Biomedical and Clinical Engineering (129 units)

Requirements

Lower Division

Take all of the following courses:

BIOL 207 Human Physiology (4)

Prerequisites: GE Foundation requirements.

CECS 100 Critical Thinking in the Digital Information

Age (3)

Prerequisite/Corequisite: ENGL 100 or its equivalent.

CHEM 111A General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination.

Corequisite: MATH 109 or higher.

EE 200 Trends in Electrical Engineering (1)

Prerequisites: None.

EE 201 Digital Logic Design (3)

Prerequisite: None.

EE 202 Computer Methods in Engineering (3)

Prerequisites: CECS 100 and MATH 123 all with a grade of "C" or better.

EE 211 Electric and Electronic Circuits I (3)

Prerequisites: (EE 210/210L or PHYS 152) and (MATH 123 or equivalent) all with a grade of "C" or better.

EE 211L Electric Circuits Laboratory (1)

Prerequisite/Corequisite: EE 211.

MATH 122 Calculus I (4)

Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and 113.

MATH 123 Calculus II (4)

Prerequisite: A grade of "C" or better in MATH 122.

MATH 224 Calculus III (4)

Prerequisite: A grade of "C" or better in MATH 123 or 222.

PHYS 151 Mechanics and Heat (4)

Prerequisite/Corequisite: MATH 122.

PHYS 152 Electricity and Magnetism (4)

Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

PHYS 254 Applied Modern Physics (3)

Prerequisite: PHYS 152 or EE 210; Prerequisite/Corequisite: MATH 224.

Each of the foregoing courses must be completed with a grade of "C" or better as well as ENGL 100 or equivalent. The interdisciplinary courses as well as the Communications Studies (COMM) courses required for General Education must be taken for a letter grade.

Upper Division:

Take all of the following courses which must be completed with a "C" or better:

EE 310 Signals and Systems (3)

Prerequisites: EE211; and MATH 370A all with a grade of "C" or better or equivalent. Corequisite: EE 202.

EE 330 Analog Electronic Circuits I (4)

Prerequisite: EE 211, EE 211L both with a grade of "C" or better.

EE 346 Microprocessor Principles and Applications (3)

Prerequisites: EE 201, (CECS 100 or equivalent).

EE 360 Electromagnetic Fields (3)

Prerequisites: MATH 224, EE 310 all with a grade of "C" or better.

EE 370 Control Systems (3)

Prerequisite: EE 310 all with a grade of "C" or better.

EE 370L Control Systems Laboratory (1)

Prerequisite/Corequisite: EE 370.

EE 382 Communication Systems I (3)

Prerequisite: EE 310 with a grade of "C" or better.

EE 386 Digital Signal Processing (3)

Prerequisites: EE 310 or CECS 301 all with a grade of "C" or better.

EE 406 Medical Instrumentation and Measurements (3)

Prerequisite: EE 330 with a grade of "C" or better or consent of instructor or graduate standing.

EE 406L Biomedical Engineering Laboratory (1)

Prerequisite/Corequisite: EE 406.

EE 407 Applications of Computers in Medicine (3)

Prerequisite: EE 346 with a grade of "C" or better or consent of instructor or graduate standing.

EE 430 Analog Electronic Circuits II (3)

Prerequisite: EE 330 with a grade of "C" or better. Prerequisite/Corequisite: EE 370.

EE 444 Microprocessor Based System Design (3)

Prerequisites: EE 346 with a grade of "C" or better or graduate standing.

MATH 370A Applied Mathematics I (3)

Prerequisites: A grade of "C" or better in MATH 123. Not open to Freshmen.

Select one course from the following:

MAE 330 Engineering Thermodynamics I (3)

Prerequisites: MATH 224, PHYS 151 or equivalent, and CHEM 111A all with a grade of "C" or better or

consent of instructor.  
CE 370 Analytical Mechanics (3)  
Prerequisites: PHYS 151 with a grade of "C" or better.

Take additional approved biomedical electives, including an approved senior design course to at least 129 units.

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**CHANGING INFORMATION**

New Catalog Text:

Bachelor of Science in Engineering  
Option in Biomedical and Clinical Engineering (120 units)

**Requirements**

**Lower Division**

Take all of the following courses:  
BIOL 207 Human Physiology (4)  
Prerequisites: GE Foundation requirements.  
CHEM 111A General Chemistry (5)  
Prerequisites: A passing score on the Chemistry Placement Examination.  
Corequisite: MATH 109 or higher.  
EE 200 Trends in Electrical Engineering (1)  
Prerequisites: None.  
EE 201 Digital Logic Design (3)  
Prerequisite: None.  
EE 202 Computer Methods in Engineering (3)  
Prerequisites: MATH 123 with a grade of "C" or better.  
EE 211 Electric and Electronic Circuits I (3)  
Prerequisites: (EE 210/ EE 210L or PHYS 152) and (MATH 123 or equivalent) all with a grade of "C" or better.  
EE 211L Electric Circuits Laboratory (1)  
Prerequisite/Corequisite: EE 211.  
ENGR 101 Intro to the Engineering Profession (1)  
Prerequisite/Corequisite: MATH 111 or MATH 113 or MATH 122.  
ENGR 102 Academic Success Skills (1)  
Prerequisite: ENGR 101 with a grade of "C" or better  
MATH 122 Calculus I (4)  
Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.  
MATH 123 Calculus II (4)  
Prerequisite: A grade of "C" or better in MATH 122.  
MATH 224 Calculus III (4)  
Prerequisite: A grade of "C" or better in MATH 123 or MATH 222.  
PHYS 151 Mechanics and Heat (4)  
Prerequisite/Corequisite: MATH 122.

Take one of the following choices:  
PHYS 152 Electricity and Magnetism (4)  
Prerequisite: PHYS 151 with a grade of "C" or better. Prerequisite/Corequisite: MATH 123.

Or both of the following:  
EE 210 Electro-Magnetic Foundations in EE (3)  
Prerequisite: PHYS 151 all with a grade of "C" or better. Corequisites: MATH 123, EE 210L.  
EE 210L Electro-Magnetic Foundations in EE Lab (1)  
Prerequisite/Corequisite: EE 210

Select one course from the following:  
PHYS 254 Applied Modern Physics (3)  
Prerequisite: PHYS 152 or EE 210; Prerequisite/Corequisite: MATH 224.  
EE 220 Materials Sciences for Electrical Engineers (3)  
Prerequisites: MATH 224 and (EE 210 and EE 210L) all with a grade of "C" or better

Each of the foregoing courses must be completed with a grade of "C" or better as well as ENGL 100 or equivalent. The interdisciplinary courses as well as the Communications Studies (COMM) courses required for General Education must be taken for a letter grade.

**Upper Division:**

Take all of the following courses which must be completed with a "C" or better:  
EE 301 Digital System Design (3)  
Prerequisite: EE 201 with a grade of "C" or better.

EE 310 Signals and Systems (3)  
 Prerequisites: EE211; and MATH 370A all with a grade of "C" or better or equivalent. Corequisite: EE 202.  
 EE 330 Analog Electronic Circuits I (4)  
 Prerequisite: EE 211, EE 211L both with a grade of "C" or better.  
 EE 346 Microprocessor Principles and Applications (3)  
 Prerequisites: EE 201, EE 202, with a grade of "C" or better.  
 EE 370 Control Systems (3)  
 Prerequisite: EE 310 all with a grade of "C" or better.  
 EE 370L Control Systems Laboratory (1)  
 Prerequisite/Corequisite: EE 370.  
 EE 382 Communication Systems I (3)  
 Prerequisite: EE 310 with a grade of "C" or better.  
 EE 386 Digital Signal Processing (3)  
 Prerequisites: EE 310 or CECS 301 all with a grade of "C" or better.  
 EE 400D Electrical Engineering Design Project (3)  
 Prerequisites: EE 301, EE 330, EE 370, EE 382 and EE 386 all with a grade of "C" or better; or consent of instructor.  
 EE 406 Medical Instrumentation and Measurements (3)  
 Prerequisite: EE 330 with a grade of "C" or better or consent of instructor or graduate standing.  
 EE 406L Biomedical Engineering Laboratory (1)  
 Prerequisite/Corequisite: EE 406.  
 EE 407 Applications of Computers in Medicine (3)  
 Prerequisite: EE 346 with a grade of "C" or better or consent of instructor or graduate standing.  
 EE 412. Fractals in Engineering (3)  
 Prerequisite: EE 310 with a grade of "C" or better or graduate standing.  
 EE 430 Analog Electronic Circuits II (3)  
 Prerequisite: EE 330 with a grade of "C" or better. Prerequisite/Corequisite: EE 370.  
 MATH 370A Applied Mathematics I (3)  
 Prerequisites: A grade of "C" or better in MATH 123. Not open to Freshmen.

Take two additional approved biomedical electives to at least 120 units.

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#### List changes:

Remove CECS 100 from requirements  
 Add course ENGR 101 to requirements  
 Add course ENGR 102 to requirements  
 Remove prerequisite CECS 100 from EE 202  
 Add (EE 210 and EE 210L) as an alternative to PHYS 152  
 Add EE 220 as an alternative to PHYS 254  
 Replace prerequisite CECS 100 by EE 202 for EE 346  
 Remove EE 360 from requirements  
 Remove EE 444 from requirements  
 Remove MAE 330 or CE 370 from requirements  
 Add EE 301 to requirements  
 Add EE 400D to requirements  
 Add EE 412 to requirements  
 Update the additional approved biomedical electives to designate two required.  
 Change the total unit requirements for the program to 120 units

Revised Roadmap Attached

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END.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH**

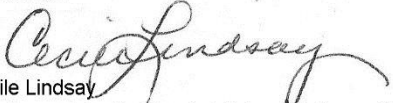
**Office of the Vice Provost for Academic Affairs and  
Dean of Graduate Studies**

December 19, 2014

**CERTIFICATION 15 - 04**

The following changes to the curriculum have completed the University review processes. New and changed courses will become effective Fall 2015 unless otherwise noted on the curriculum form. Changed program requirements will become effective Fall 2015.

Certified:

  
Cecile Lindsay  
Vice Provost for Academic Affairs and Dean of Graduate Studies

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**COLLEGE OF ENGINEERING**

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**PROGRAM CHANGE** Bachelor of Science in Civil Engineering  
**CURRENT CATALOG TEXT**

Bachelor of Science in Civil Engineering (120 units)

Upper Division:

Take all of the following:

- CE 335 Fluid Mechanics (3)  
Prerequisites: MATH 224 and C E 205 all with a grade of "C" or better.
- CE 345 Geotechnical Engineering I (3)  
Prerequisite: Consent of Department Undergraduate Advisor.  
Corequisites: MAE 373; GEOL 370.
- CE 346 Geotechnical Engineering Laboratory (1)  
Prerequisite: ENGL 100 or GE Composition (Area A1) with a grade of "C" or better.  
Corequisite: CE 345.
- CE 359 Structural Analysis I (3)  
Prerequisite: MAE 373 with a grade of "C" or better.
- CE 364 Environmental Engineering (3)  
Prerequisites: CHEM 111A, BIOL 200/MICR 200 with a grade of "C" or better.  
Prerequisite/Corequisite: CE 335.
- CE 406 Project Cost-Benefit Analysis (3)  
Prerequisite: GE Foundation requirements.
- CE 407 Probability & Statistics in Civil Engineering (2)  
Prerequisites: CE 206 and MATH 224 all with a grade of "C" or better.
- CE 426 Transportation Engineering (3)  
Prerequisite: CE 345 with a grade of "C" or better.  
Corequisite: CE 406.
- CE 437 Engineering Hydraulics (3)  
Prerequisites: C E 335, MATH 370A all with a grade of "C" or better.
- CE 459 Reinforced Concrete Design I (3)  
Prerequisites: C E 200 and 359 all with a grade of "C" or better.
- CE 481 Professional Practice in Civil Engineering (1)  
Prerequisite: Senior standing.
- CE 490 Senior Design Project (3)  
Prerequisite: CE 459; completion of all 300-level engineering courses for the civil engineering major all with a grade of "C" or better and consent of department undergraduate advisor. Prerequisite/Corequisite: CE 426, CE 437. Normally taken in the last year of the undergraduate program.
- ECON 300 Fundamentals of Economics (3)  
Prerequisites: GE Foundation requirements.
- GEOL 370 Geology for Engineers (2)  
Prerequisites: CE 200.

- MATH 370A Applied Mathematics I (3)  
Prerequisites: A grade of "C" or better in MATH 123. Not open to Freshmen.
- MAE 330 Engineering Thermodynamics I (3)  
Prerequisites: MATH 224, PHYS 151 or equivalent, and CHEM 111A all with a grade of "C" or better or consent of instructor.
- MAE 371 Analytical Mechanics II (Dynamics) (3)  
Prerequisites: CE 205, MAE 205 or CE 206 all with a grade of "C" or better.
- MAE 373 Mechanics of Deformable Bodies (3)  
Prerequisite: CE 205 with a grade of "C" or better.

Take six units of electives courses from:

- CE 427, CE 428, CE 429/429L, CE 435, CE 438/438L, CE 439, CE 445, CE 446, CE 455, CE 456, CE 457, CE 458, CE 464, CE 466, CE 495

Take two laboratories from:

- CE 326, CE 336, CE 365, CE 454, MAE 374

A grade of "C" or better must be achieved in the required courses below:

- CHEM 111A, MATH 122, MATH 123, MATH 224, MATH 370A, BIOL 200, MICR 200, PHYS 151, ECON 300, MAE 172, MAE 373, CE 130, CE 130L, CE 200, CE 205, CE 206, CE 335, CE 345, CE 359, CE 406, CE 459 and CE 490.

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## **CHANGING INFORMATION**

New Catalog Text:

Upper Division:

Take all of the following:

- CE 325 Transportation Safety and Sustainability (3)  
Prerequisites: GE Foundation requirements.
- CE 335 Fluid Mechanics (3)  
Prerequisites: MATH 224 and CE 205 all with a grade of "C" or better.
- CE 345 Geotechnical Engineering I (3)  
Prerequisite: Consent of Department Undergraduate Advisor.  
Corequisites: MAE 373; GEOL 370.
- CE 346 Geotechnical Engineering Laboratory (1)  
Prerequisite: ENGL 100 or GE Composition (Area A1) with a grade of "C" or better.  
Corequisite: CE 345.
- CE 359 Structural Analysis I (3)  
Prerequisite: MAE 373 with a grade of "C" or better.
- CE 364 Environmental Engineering (3)  
Prerequisites: CHEM 111A, BIOL 200/MICR 200 with a grade of "C" or better.  
Prerequisite/Corequisite: CE 335.
- CE 406 Project Cost-Benefit Analysis (3)  
Prerequisite: GE Foundation requirements.
- CE 407 Probability & Statistics in Civil Engineering (2)  
Prerequisites: CE 206 and MATH 224 all with a grade of "C" or better.
- CE 426 Transportation Engineering (3)  
Prerequisite: CE 345 with a grade of "C" or better.  
Corequisite: CE 406.
- CE 437 Engineering Hydraulics (3)  
Prerequisites: CE 335, MATH 370A all with a grade of "C" or better.
- CE 459 Reinforced Concrete Design I (3)  
Prerequisites: CE 200 and 359 all with a grade of "C" or better.
- CE 481 Professional Practice in Civil Engineering (1)  
Prerequisite: Senior standing.
- CE 490 Senior Design Project (3)  
Prerequisite: CE 459; completion of all 300-level engineering courses for the civil engineering major all with a grade of "C" or better and consent of department undergraduate advisor. Prerequisite/Corequisite: CE 426, CE 437. Normally taken in the last year of the undergraduate program.
- GEOL 370 Geology for Engineers (2)  
Prerequisites: CE 200.
- MATH 370A Applied Mathematics I (3)  
Prerequisites: A grade of "C" or better in MATH 123. Not open to Freshmen.
- MAE 330 Engineering Thermodynamics I (3)  
Prerequisites: MATH 224, PHYS 151 or equivalent, and CHEM 111A all with a grade of "C" or better or consent of instructor.
- MAE 371 Analytical Mechanics II (Dynamics) (3)  
Prerequisites: CE 205, MAE 205 or CE 206 all with a grade of "C" or better.
- MAE 373 Mechanics of Deformable Bodies (3)

Prerequisite: CE 205 with a grade of "C" or better.

Take six units of electives courses from:

- CE 427, CE 428, CE 429/ CE 429L, CE 435, CE 438/ CE 438L, CE 439, CE 445, CE 446, CE 455, CE 456, CE 457, CE 458, CE 464, CE 466, CE 495

Take two laboratories from:

- CE 326, CE 336, CE 365, CE 454, MAE 374

A grade of "C" or better must be achieved in the required courses below:

- CHEM 111A, MATH 122, MATH 123, MATH 224, MATH 370A, BIOL 200, MICR 200, PHYS 151, MAE 172, MAE 373, CE 130, CE 130L, CE 200, CE 205, CE 206, CE 325, CE 335, CE 345, CE 359, CE 406, CE 459 and CE 490.

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List changes:

Upper Division:

Remove ECON 300 and replace with CE 325

Remove ECON 300 in A grade of "C" or better must be achieved in the required courses below and replace with CE 325.

Roadmaps are required for all undergraduate degree programs with changes to be included in the formal certification. If the change does not affect the existing roadmap, please indicate no change.

Revised Roadmap Attached

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## **COURSE – NEW – LOWER DIVISION**

CECS 229. Discrete Structures with Computing Applications II (3)

Prerequisites: MATH 123 and CECS 228 both with a Grade of "C" or better

This is the second course in a two-course sequence in computing applications of discrete structures. Topics include applications of computer arithmetic and matrices in computer systems. Programming assignments in Python will be provided.

Letter grade only (A-F). (Lecture 2 hours, Laboratory 3 hours)

2 units @ C-4 and 1 unit @ C-16

Articulation wanted, transfer courses may meet goals.

=====

## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: CECS 262 C for Embedded Programming 2 units @ C-4 and 1 unit @ C-16

### **Items Changing:**

Course Title: Introduction to Embedded System Programming

**ARTICULATION** – Articulation ends.

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**PROGRAM CHANGE** Bachelor of Science in Computer Engineering

### **CURRENT CATALOG TEXT –**

Requirements

Lower Division:

Take all of the following courses:

CECS 100 Critical Thinking in the Digital Information Age (3)  
Prerequisite/Corequisite: ENGL 100 or its equivalent all with a grade of "C" or better.  
CECS 105 Introduction to Computer Engineering and Computer Science (1)  
Prerequisites: None.  
CECS 174 Introduction to Programming and Problem Solving (3)  
Prerequisite: CECS 100 and MATH 113 (or equivalent) all with a grade of "C" or better.  
CECS 201 Computer Logic Design I (3)  
Prerequisite: MATH 113 or equivalent all with a grade of "C" or better.  
CECS 211 Principles of Computer Engineering I (3)  
Prerequisite: MATH 122 with a grade of "C" or better.  
CECS 228 Discrete Structures With Computing Applications I (3)  
Prerequisites: CECS 174 and MATH 113 or equivalent all with a grade of "C" or better.  
CECS 262 C for Embedded Programming (3)  
Prerequisites: CECS 174 and CECS 201 all with a grade of "C" or better.  
CECS 271 Introduction to Numerical Methods (3)  
Prerequisites: CECS 174 and MATH 123 all with a grade of "C" or better.  
CECS 274 Object Oriented Programming and Data Structures (3)  
Prerequisite: CECS 174 with a grade of "C" or better.  
CECS 282 C++ for Java Programmers (3)  
Prerequisite: CECS 274 with a grade of "C" or better.  
ENGR 101 Intro to the Engineering Profession (1)  
Prerequisite/Corequisite: MATH 111 or MATH 113 or MATH 122.  
ENGR 102 Academic Success Skill (1)  
Prerequisite: ENGR 101 with a grade of "C" or better.  
MATH 122 Calculus I (4)  
Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.  
MATH 123 Calculus II (4)  
Prerequisite: A grade of "C" or better in MATH 122.  
PHYS 151 Mechanics and Heat (4)  
Prerequisite/Corequisite: MATH 122.

Take one of the following choices:

PHYS 152 Electricity and Magnetism (4)  
Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

or both of the following:

EE 210 Electro-Magnetic Foundations in EE (3)  
Prerequisite: PHYS 151 with a grade of "C" or better. Corequisites: MATH 123, EE 210L.  
EE 210L Electro-Magnetic Foundations in EE Lab (1)  
Corequisite: EE 210.

A Math Elective – Take three units of approved elective to be selected from:  
MATH 224 or MATH 247

A Science Elective – Take four units of approved elective to be selected from:  
BIOL 200, PHYS 254 and PHYS 255, CHEM 111A

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## **CHANGING INFORMATION**

New Catalog Text:

Requirements

Lower Division:

Take all of the following courses:

CECS 100 Critical Thinking in the Digital Information Age (3)  
Prerequisite/Corequisite: ENGL 100 or its equivalent all with a grade of "C" or better.  
CECS 105 Introduction to Computer Engineering and Computer Science (1)  
Prerequisites: None.  
CECS 174 Introduction to Programming and Problem Solving (3)

Prerequisite: CECS 100 and MATH 113 (or equivalent) all with a grade of "C" or better.  
 CECS 201 Computer Logic Design I (3)  
 Prerequisite: MATH 113 or equivalent all with a grade of "C" or better.  
 CECS 211 Principles of Computer Engineering I (3)  
 Prerequisite: MATH 122 with a grade of "C" or better.  
 CECS 228 Discrete Structures With Computing Applications I (3)  
 Prerequisites: CECS 174 and MATH 113 or equivalent all with a grade of "C" or better.  
 CECS 229 Discrete Structures With Computing Applications II (3)  
 Prerequisites: MATH 123 and CECS 228 all with a grade of "C" or better.  
 CECS 262 C for Embedded Programming (3)  
 Prerequisites: CECS 174 and CECS 201 all with a grade of "C" or better.  
 CECS 271 Introduction to Numerical Methods (3)  
 Prerequisites: CECS 174 and MATH 123 all with a grade of "C" or better.  
 CECS 274 Object Oriented Programming and Data Structures (3)  
 Prerequisite: CECS 174 with a grade of "C" or better.  
 CECS 282 C++ for Java Programmers (3)  
 Prerequisite: CECS 274 with a grade of "C" or better.  
 ENGR 101 Intro to the Engineering Profession (1)  
 Prerequisite/Corequisite: MATH 111 or MATH 113 or MATH 122.  
 ENGR 102 Academic Success Skill (1)  
 Prerequisite: ENGR 101 with a grade of "C" or better.  
 MATH 122 Calculus I (4)  
 Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.  
 MATH 123 Calculus II (4)  
 Prerequisite: A grade of "C" or better in MATH 122.  
 PHYS 151 Mechanics and Heat (4)  
 Prerequisite/Corequisite: MATH 122.

Take one of the following choices:

PHYS 152 Electricity and Magnetism (4)  
 Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

or both of the following:

EE 210 Electro-Magnetic Foundations in EE (3)  
 Prerequisite: PHYS 151 with a grade of "C" or better. Corequisites: MATH 123, EE 210L.  
 EE 210L Electro-Magnetic Foundations in EE Lab (1)  
 Corequisite: EE 210.

A Science Elective – Take four units of approved elective to be selected from:

BIOL 200, PHYS 254 and PHYS 255, CHEM 111A

List changes:

Remove 3 units of MATH elective from Lower Division Requirements  
 Add 3 units of CECS 229 Discrete Structures with Computing Applications II to Lower Division Requirements

Revised Roadmap Attached

## **PROGRAM CHANGE Bachelor of Science in Computer Science**

### **CURRENT CATALOG TEXT**

Requirements

Lower Division:

Take all of the following courses:

CECS 100 Critical Thinking in the Digital Information Age (3)  
 Prerequisite/Corequisite: ENGL 100 or GE Composition (Area A1).  
 CECS 105 Introduction to Computer Engineering and Computer Science (1)  
 Prerequisites: None.  
 CECS 174 Introduction to Programming and Problem Solving (3)  
 Prerequisite: CECS 100 and MATH 113 (or equivalent) all with a grade of "C" or better.  
 CECS 201 Computer Logic Design I (3)  
 Prerequisite: MATH 113 or equivalent all with a grade of "C" or better.  
 CECS 228 Discrete Structures With Computing Applications I (3)  
 Prerequisites: CECS 174 and MATH 113 or equivalent all with a grade of "C" or better.  
 CECS 274 Object Oriented Programming and Data Structures (3)  
 Prerequisite: CECS 174 with a grade of "C" or better.  
 CECS 277 Object Oriented Application Development (3)

Prerequisite: CECS 274 with a grade of "C" or better.  
 CECS 282 C++ for Java Programmers (3)  
 Prerequisite: CECS 274 with a grade of "C" or better.  
 CECS 285 Computer Organization and Assembly Language Programming (3)  
 Prerequisites: CECS 201, CECS 274 all with a grade of "C" or better.  
 ENGR 101 Intro to the Engineering Profession (1)  
 Prerequisite/Corequisite: MATH 111 or MATH 113 or MATH 122.  
 ENGR 102 Academic Success Skills (1)  
 Prerequisite: ENGR 101 with a grade of "C" or better.  
 MATH 122 Calculus I (4)  
 Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.  
 MATH 123 Calculus II (4)  
 Prerequisite: A grade of "C" or better in MATH 122.

Three units of math elective taken from the following:

MATH 224 Calculus III (4)  
 Prerequisite: A grade of "C" or better in MATH 123 or MATH 222.  
 MATH 233 Fundamental Concepts for Adv. Math (3)  
 Prerequisite: A grade of "C" or better in MATH 123 or MATH 222.  
 MATH 247 Introduction to Linear Algebra (3)  
 Prerequisite: MATH 123 or MATH 222.

Take a minimum of 12 units of approved science-electives to include a two-semester science sequence chosen from the following groups of courses:

PHYS 151 Mechanics and Heat (4)  
 Prerequisite/Corequisite: MATH 122.  
 PHYS 152 Electricity and Magnetism (4)  
 Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

or

PHYS 151 Mechanics and Heat (4)  
 Prerequisite/Corequisite: MATH 122.  
 EE 210 Electro-Magnetic Foundations in EE (3)  
 Prerequisite: PHYS 151 with a grade of "C" or better.  
 Corequisites: MATH 123, EE 210L.  
 EE 210L Electro-Magnetic Foundations in EE Lab (1)  
 Corequisite: EE 210.

or

CHEM 111A General Chemistry (5)  
 Prerequisites: A passing score on the Chemistry Placement Examination.  
 Corequisite: MATH 109 or higher.  
 CHEM 111B General Chemistry (5)  
 Prerequisites: CHEM 111A and MATH 113 or MATH 115 or MATH 117 or MATH 119A or MATH 122 all with a grade of "C" or better.

Remaining units to be chosen from the following:

BIOL 153, BIO 200, BIO 205, BIO 207.

## CHANGING INFORMATION

New Catalog Text:

### Requirements

Lower Division:

Take all of the following courses:

CECS 100 Critical Thinking in the Digital Information Age (3)  
 Prerequisite/Corequisite: ENGL 100 or GE Composition (Area A1).  
 CECS 105 Introduction to Computer Engineering and Computer Science (1)  
 Prerequisites: None.  
 CECS 174 Introduction to Programming and Problem Solving (3)  
 Prerequisite: CECS 100 and MATH 113 (or equivalent) all with a grade of "C" or better.  
 CECS 201 Computer Logic Design I (3)  
 Prerequisite: MATH 113 or equivalent all with a grade of "C" or better.  
 CECS 228 Discrete Structures With Computing Applications I (3)  
 Prerequisites: CECS 174 and MATH 113 or equivalent all with a grade of "C" or better.  
 CECS 229 Discrete Structures with Computing Applications II (3)  
 Prerequisites: MATH 123 and CECS 228 all with a grade of "C" or better.  
 CECS 274 Object Oriented Programming and Data Structures (3)  
 Prerequisite: CECS 174 with a grade of "C" or better.  
 CECS 277 Object Oriented Application Development (3)  
 Prerequisite: CECS 274 with a grade of "C" or better.

CECS 282 C++ for Java Programmers (3)  
Prerequisite: CECS 274 with a grade of "C" or better.  
CECS 285 Computer Organization and Assembly Language Programming (3)  
Prerequisites: CECS 201, CECS 274 all with a grade of "C" or better.  
ENGR 101 Intro to the Engineering Profession (1)  
Prerequisite/Corequisite: MATH 111 or MATH 113 or MATH 122.  
ENGR 102 Academic Success Skills (1)  
Prerequisite: ENGR 101 with a grade of "C" or better.  
MATH 122 Calculus I (4)  
Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.  
MATH 123 Calculus II (4)  
Prerequisite: A grade of "C" or better in MATH 122.

Take a minimum of 12 units of approved science-electives to include a two-semester science sequence chosen from the following groups of courses:

PHYS 151 Mechanics and Heat (4)  
Prerequisite/Corequisite: MATH 122.  
PHYS 152 Electricity and Magnetism (4)  
Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

or

PHYS 151 Mechanics and Heat (4)  
Prerequisite/Corequisite: MATH 122.  
EE 210 Electro-Magnetic Foundations in EE (3)  
Prerequisite: PHYS 151 with a grade of "C" or better.  
Corequisites: MATH 123, EE 210L.  
EE 210L Electro-Magnetic Foundations in EE Lab (1)  
Corequisite: EE 210.

or

CHEM 111A General Chemistry (5)  
Prerequisites: A passing score on the Chemistry Placement Examination.  
Corequisite: MATH 109 or higher.  
CHEM 111B General Chemistry (5)  
Prerequisites: CHEM 111A and MATH 113 or MATH 115 or MATH 117 or MATH 119A or MATH 122 all with a grade of "C" or better.

Remaining units to be chosen from the following:

BIOL 153, BIO 200, BIO 205, BIO 207.

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List changes:

Remove 3 units of MATH elective from Lower Division Requirements  
Add 3 units of CECS 229 Discrete Structures with Computing Applications II to Lower Division Requirements

Revised Roadmap Attached

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### **COURSE – NEW – LOWER DIVISION**

EE186. Introduction to Programming and Applications for Electrical Engineers (3)

Intro Prog & Appl Electr Engr

Prerequisite/Corequisite: ENGL100 or equivalent

Introduction to programming using the C language, with emphasis on electrical engineering applications. Variables, conditional control flow loops, functions and program structure, pointers and arrays, input/output processing. Introduction to embedded system applications and development platforms.

Letter Grade only (A-F). (Lecture 2 hours, laboratory 3 hours).

2 units @ C-4 and 1 unit @ C-16

Articulation wanted, transfer course may meet goals.

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### **COURSE – CHANGE – LOWER DIVISION**

**Items Changing:**

Prerequisite(s): MATH 123 with a grade of "C" or better

**ARTICULATION** – Minimal change. No articulation review necessary.

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**PROGRAM CHANGE** Bachelor of Science in Electrical Engineering  
**CURRENT CATALOG TEXT** –

Requirements

Core:

Take all the following courses:

CECS 100 Critical Thinking in the Digital Information Age (or equivalent) (3)

Prerequisite/Corequisite: ENGL 100 or its equivalent

EE 202 Computer Methods in Engineering (3)

Prerequisites: CECS 100 and MATH 123 all with a grade of "C" or better.

PHYS 254 Applied Modern Physics (3)

Prerequisite: PHYS 152 or EE 210; Prerequisite/Corequisite: MATH 224.

EE 346 Microprocessor Principles and Applications (3)

Prerequisites: EE 201, (CECS 100 or equivalent) all with a grade of "C" or better.

EE 380 Probability, Statistics & Stochastic Modeling (3)

Prerequisites: MATH 123; (CECS 100 or equivalent) all with a grade of "C" or better.

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**CHANGING INFORMATION**

New Catalog Text:

Requirements

Core:

Take all of the following courses:

EE 186 Introduction to Programming and Applications for Electrical Engineers (3)

Prerequisite/Corequisite: ENGL 100.

EE 202 Computer Methods in Engineering (3)

Prerequisites: MATH 123 with a grade of "C" or better.

EE 346 Microprocessor Principles and Applications (3)

Prerequisites: EE 201, EE 202, with a grade of "C" or better.

EE 380 Probability, Statistics & Stochastic Modeling (3)

Prerequisites: MATH 123; (EE 202 or CECS 271 or CECS 274) all with a grade of "C" or better.

Select one course from the following:

PHYS 254 Applied Modern Physics (3)

Prerequisite: PHYS 152 or EE 210; Prerequisite/Corequisite: MATH 224.

EE 220 Materials Sciences for Electrical Engineers (3)

Prerequisites: MATH 224 and (EE 210 and EE 210L) all with a grade of "C" or better

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List changes:

Remove CECS 100 from requirements

Add EE 186 to requirements

Remove prerequisite CECS 100 from EE 202

Replace prerequisite CECS 100 by EE 202 for EE 346

Replace prerequisite (CECS 100 or equivalent) by (EE 202 or CECS 271 or CECS 274) for EE 380

Add EE 220 as an alternative to PHYS 254

Revised Roadmap Attached

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**PROGRAM CHANGE** Program Name: Bachelor of Science in Engineering  
Option in Biomedical and Clinical Engineering (129 units)

**CURRENT CATALOG TEXT**

Bachelor of Science in Engineering

Option in Biomedical and Clinical Engineering (129 units)

Requirements

Lower Division

Take all of the following courses:

BIOL 207 Human Physiology (4)

Prerequisites: GE Foundation requirements.

CECS 100 Critical Thinking in the Digital Information

Age (3)

Prerequisite/Corequisite: ENGL 100 or its equivalent.

CHEM 111A General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination.

Corequisite: MATH 109 or higher.

EE 200 Trends in Electrical Engineering (1)

Prerequisites: None.

EE 201 Digital Logic Design (3)

Prerequisite: None.

EE 202 Computer Methods in Engineering (3)

Prerequisites: CECS 100 and MATH 123 all with a grade of "C" or better.

EE 211 Electric and Electronic Circuits I (3)

Prerequisites: (EE 210/210L or PHYS 152) and (MATH 123 or equivalent) all with a grade of "C" or better.

EE 211L Electric Circuits Laboratory (1)

Prerequisite/Corequisite: EE 211.

MATH 122 Calculus I (4)

Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and 113.

MATH 123 Calculus II (4)

Prerequisite: A grade of "C" or better in MATH 122.

MATH 224 Calculus III (4)

Prerequisite: A grade of "C" or better in MATH 123 or 222.

PHYS 151 Mechanics and Heat (4)

Prerequisite/Corequisite: MATH 122.

PHYS 152 Electricity and Magnetism (4)

Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

PHYS 254 Applied Modern Physics (3)

Prerequisite: PHYS 152 or EE 210; Prerequisite/Corequisite: MATH 224.

Each of the foregoing courses must be completed with a grade of "C" or better as well as ENGL 100 or equivalent. The interdisciplinary courses as well as the Communications Studies (COMM) courses required for General Education must be taken for a letter grade.

Upper Division:

Take all of the following courses which must be completed with a "C" or better:

EE 310 Signals and Systems (3)

Prerequisites: EE211; and MATH 370A all with a grade of "C" or better or equivalent. Corequisite: EE 202.

EE 330 Analog Electronic Circuits I (4)

Prerequisite: EE 211, EE 211L both with a grade of "C" or better.

EE 346 Microprocessor Principles and Applications (3)

Prerequisites: EE 201, (CECS 100 or equivalent).

EE 360 Electromagnetic Fields (3)

Prerequisites: MATH 224, EE 310 all with a grade of "C" or better.

EE 370 Control Systems (3)

Prerequisite: EE 310 all with a grade of "C" or better.

EE 370L Control Systems Laboratory (1)

Prerequisite/Corequisite: EE 370.

EE 382 Communication Systems I (3)

Prerequisite: EE 310 with a grade of "C" or better.

EE 386 Digital Signal Processing (3)

Prerequisites: EE 310 or CECS 301 all with a grade of "C" or better.

EE 406 Medical Instrumentation and Measurements (3)

Prerequisite: EE 330 with a grade of "C" or better or consent of instructor or graduate standing.

EE 406L Biomedical Engineering Laboratory (1)

Prerequisite/Corequisite: EE 406.

EE 407 Applications of Computers in Medicine (3)

Prerequisite: EE 346 with a grade of "C" or better or consent of instructor or graduate standing.

EE 430 Analog Electronic Circuits II (3)

Prerequisite: EE 330 with a grade of "C" or better. Prerequisite/Corequisite: EE 370.

EE 444 Microprocessor Based System Design (3)

Prerequisites: EE 346 with a grade of "C" or better or graduate standing.

MATH 370A Applied Mathematics I (3)

Prerequisites: A grade of "C" or better in MATH 123. Not open to Freshmen.

Select one course from the following:

MAE 330 Engineering Thermodynamics I (3)

Prerequisites: MATH 224, PHYS 151 or equivalent, and CHEM 111A all with a grade of "C" or better or

consent of instructor.  
CE 370 Analytical Mechanics (3)  
Prerequisites: PHYS 151 with a grade of "C" or better.

Take additional approved biomedical electives, including an approved senior design course to at least 129 units.

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**CHANGING INFORMATION**

New Catalog Text:

Bachelor of Science in Engineering  
Option in Biomedical and Clinical Engineering (120 units)

**Requirements**

**Lower Division**

Take all of the following courses:  
BIOL 207 Human Physiology (4)  
Prerequisites: GE Foundation requirements.  
CHEM 111A General Chemistry (5)  
Prerequisites: A passing score on the Chemistry Placement Examination.  
Corequisite: MATH 109 or higher.  
EE 200 Trends in Electrical Engineering (1)  
Prerequisites: None.  
EE 201 Digital Logic Design (3)  
Prerequisite: None.  
EE 202 Computer Methods in Engineering (3)  
Prerequisites: MATH 123 with a grade of "C" or better.  
EE 211 Electric and Electronic Circuits I (3)  
Prerequisites: (EE 210/ EE 210L or PHYS 152) and (MATH 123 or equivalent) all with a grade of "C" or better.  
EE 211L Electric Circuits Laboratory (1)  
Prerequisite/Corequisite: EE 211.  
ENGR 101 Intro to the Engineering Profession (1)  
Prerequisite/Corequisite: MATH 111 or MATH 113 or MATH 122.  
ENGR 102 Academic Success Skills (1)  
Prerequisite: ENGR 101 with a grade of "C" or better  
MATH 122 Calculus I (4)  
Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.  
MATH 123 Calculus II (4)  
Prerequisite: A grade of "C" or better in MATH 122.  
MATH 224 Calculus III (4)  
Prerequisite: A grade of "C" or better in MATH 123 or MATH 222.  
PHYS 151 Mechanics and Heat (4)  
Prerequisite/Corequisite: MATH 122.

Take one of the following choices:  
PHYS 152 Electricity and Magnetism (4)  
Prerequisite: PHYS 151 with a grade of "C" or better. Prerequisite/Corequisite: MATH 123.

Or both of the following:  
EE 210 Electro-Magnetic Foundations in EE (3)  
Prerequisite: PHYS 151 all with a grade of "C" or better. Corequisites: MATH 123, EE 210L.  
EE 210L Electro-Magnetic Foundations in EE Lab (1)  
Prerequisite/Corequisite: EE 210

Select one course from the following:  
PHYS 254 Applied Modern Physics (3)  
Prerequisite: PHYS 152 or EE 210; Prerequisite/Corequisite: MATH 224.  
EE 220 Materials Sciences for Electrical Engineers (3)  
Prerequisites: MATH 224 and (EE 210 and EE 210L) all with a grade of "C" or better

Each of the foregoing courses must be completed with a grade of "C" or better as well as ENGL 100 or equivalent. The interdisciplinary courses as well as the Communications Studies (COMM) courses required for General Education must be taken for a letter grade.

**Upper Division:**

Take all of the following courses which must be completed with a "C" or better:  
EE 301 Digital System Design (3)  
Prerequisite: EE 201 with a grade of "C" or better.

EE 310 Signals and Systems (3)  
 Prerequisites: EE211; and MATH 370A all with a grade of "C" or better or equivalent. Corequisite: EE 202.  
 EE 330 Analog Electronic Circuits I (4)  
 Prerequisite: EE 211, EE 211L both with a grade of "C" or better.  
 EE 346 Microprocessor Principles and Applications (3)  
 Prerequisites: EE 201, EE 202, with a grade of "C" or better.  
 EE 370 Control Systems (3)  
 Prerequisite: EE 310 all with a grade of "C" or better.  
 EE 370L Control Systems Laboratory (1)  
 Prerequisite/Corequisite: EE 370.  
 EE 382 Communication Systems I (3)  
 Prerequisite: EE 310 with a grade of "C" or better.  
 EE 386 Digital Signal Processing (3)  
 Prerequisites: EE 310 or CECS 301 all with a grade of "C" or better.  
 EE 400D Electrical Engineering Design Project (3)  
 Prerequisites: EE 301, EE 330, EE 370, EE 382 and EE 386 all with a grade of "C" or better; or consent of instructor.  
 EE 406 Medical Instrumentation and Measurements (3)  
 Prerequisite: EE 330 with a grade of "C" or better or consent of instructor or graduate standing.  
 EE 406L Biomedical Engineering Laboratory (1)  
 Prerequisite/Corequisite: EE 406.  
 EE 407 Applications of Computers in Medicine (3)  
 Prerequisite: EE 346 with a grade of "C" or better or consent of instructor or graduate standing.  
 EE 412. Fractals in Engineering (3)  
 Prerequisite: EE 310 with a grade of "C" or better or graduate standing.  
 EE 430 Analog Electronic Circuits II (3)  
 Prerequisite: EE 330 with a grade of "C" or better. Prerequisite/Corequisite: EE 370.  
 MATH 370A Applied Mathematics I (3)  
 Prerequisites: A grade of "C" or better in MATH 123. Not open to Freshmen.

Take two additional approved biomedical electives to at least 120 units.

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#### List changes:

Remove CECS 100 from requirements  
 Add course ENGR 101 to requirements  
 Add course ENGR 102 to requirements  
 Remove prerequisite CECS 100 from EE 202  
 Add (EE 210 and EE 210L) as an alternative to PHYS 152  
 Add EE 220 as an alternative to PHYS 254  
 Replace prerequisite CECS 100 by EE 202 for EE 346  
 Remove EE 360 from requirements  
 Remove EE 444 from requirements  
 Remove MAE 330 or CE 370 from requirements  
 Add EE 301 to requirements  
 Add EE 400D to requirements  
 Add EE 412 to requirements  
 Update the additional approved biomedical electives to designate two required.  
 Change the total unit requirements for the program to 120 units

Revised Roadmap Attached

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END.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH**

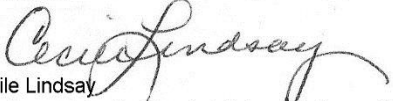
**Office of the Vice Provost for Academic Affairs and  
Dean of Graduate Studies**

December 19, 2014

**CERTIFICATION 15 - 05**

The following changes to the curriculum have completed the University review processes. New and changed courses will become effective Fall 2015 unless otherwise noted on the curriculum form. Changed program requirements will become effective Fall 2015.

Certified:

  
Cecile Lindsay  
Vice Provost for Academic Affairs and Dean of Graduate Studies

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**COLLEGE OF HEALTH AND HUMAN SERVICES**

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**PROGRAM - CHANGE**

Program Name: Bachelor of Science in Athletic Training

**CURRENT CATALOG TEXT –**

Core:

Take all of the following courses:

- KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

Take one of the following courses:

- CHEM 100 Chemistry and Today's World (4)

Prerequisites: One GE Foundation course (GE categories A1, A2, A3 or B2).

- CHEM 111A General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination.

Corequisite: MATH 109 or higher.

- CHEM 140 General, Organic, and Biochemistry (5)

Prerequisites: Restricted to Pre-Nursing majors. A grade of "C" or better in MATH 109 or MATH 113 or MATH 117 or MATH 119A or MATH 122 or STAT 108; high school chemistry or equivalent.

Take all of the following courses:

- ATEP 207 Prevention and Care of Athletic Injuries (3)

\*"C" or better required.

Prerequisites: Current certification in CPR, AED, and First Aid. Certification must include Adult, Child, and Infant CPR; Conscious and Unconscious Choking for victims of all ages; Automated External Defibrillator (AED), and Basic First Aid.

- KIN 263 Techniques in Physical Fitness (2)

Prerequisites: None.

- BIOL 207 Human Physiology (4)

\*"C" or better required.

Prerequisites: GE Foundation requirements.

- BIOL 208 Human Anatomy (4)

Prerequisites: GE Foundation requirements.

- NUTR 132 Introductory Nutrition (3)

Prerequisites/Corequisites: One Foundation course.

- PHYS 100A General Physics (4)

Prerequisites: MATH 109 or MATH 113 or MATH 119A or MATH 120 or MATH 122.

- PSY 100 General Psychology (3)

Prerequisites/Corequisites: GE A1 requirement.

Take one of the following courses:

- BIOL 260 Biostatistics (3)

Prerequisites: BIOL 211 or BIOL 207 or MICR 200; MATH 111 or MATH 113 or MATH 119A or MATH 122 all with a grade of "C" or better.

- KIN 483 Statistics in Human Movement Science (3)

Prerequisites: KIN 300, KIN 301, KIN 312.

- PSY 210 Introductory Statistics (4)

Prerequisites: PSY 100, GE A1 requirement, and eligible to take a General Education Mathematics course.

- STAT 108 Statistics for Everyday Life (3)

Prerequisites: None.

Upper Division:

Take all of the following courses:

- ATEP 304 Clinical Aspects of Athletic Training (3)

Prerequisites: BIOL 207, BIOL 208; ATEP 207.

- ATEP 306 Medical Aspects of Athletic Training (3)

Prerequisites: BIOL 207, BIOL 208; ATEP 207.

- ATEP 308A Athletic Training Evaluation I (3)

Prerequisites: ATEP 207, BIOL 208.

- ATEP 308B Athletic Training Evaluation II (3)

Prerequisites: ATEP 308A.

- ATEP 309 Developmental and Therapeutic Exercise (3)

Prerequisites: KIN 300, KIN 301 or consent of instructor.

- ATEP 310 Therapeutic Approaches in Athletic Training (3)

Prerequisites: ATEP 308A or ATEP 309 or consent of instructor.

- ATEP 407 Management Strategies in Athletic Training (3)

Prerequisites: Senior standing or consent of instructor.

- ATEP 490A Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and Grade of "C" or better in ATEP 207; satisfactory completion of CSULB Athletic Training Program Health and Safety requirements; and satisfactory completion of CSULB Athletic Training Program Technical Standards Form.

- ATEP 490B Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490A.

- ATEP 490C Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490B.

- ATEP 490D Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490C.

- H SC 427 Drugs and Health (3)

Prerequisites: Upper division standing.

- KIN 315 Motor Development (3)

Prerequisites: BIOL 207, BIOL 208; PSY 100 or equivalent.

- KIN 339 Psychology of Sport Behavior and Athletic Performance (3)

Prerequisites: GE Foundation requirements, PSY 100 and upper division standing.

- KIN 368 Resistance Training for Fitness (3)

Prerequisites: KIN 300 and KIN 301.

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## **CHANGING INFORMATION**

1250 BELLFLOWER BOULEVARD . LONG BEACH, CALIFORNIA 90840-2007 . 562/985-7171/1746/8221 . FAX 562/985-7170

New Catalog Text:

Core:

Take all of the following courses:

- KIN 201 Introduction to Kinesiology (3)

Prerequisites: None

KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

Take all of the following courses:

- ATEP 207 Prevention and Care of Athletic Injuries (3)

\*"C" or better required.

Prerequisites: Current certification in CPR, AED, and First Aid. Certification must include Adult, Child, and Infant CPR; Conscious and Unconscious Choking for victims of all ages; Automated External Defibrillator (AED), and Basic First Aid.

- KIN 263 Techniques in Physical Fitness (2)

Prerequisites: None.

- BIOL 207 Human Physiology (4)

\*"C" or better required.

Prerequisites: GE Foundation requirements.

- BIOL 208 Human Anatomy (4)

Prerequisites: GE Foundation requirements.

- NUTR 132 Introductory Nutrition (3)

Prerequisites/Corequisites: One Foundation course.

- PHYS 100A General Physics (4)

Prerequisites: MATH 109 or MATH 113 or MATH 119A or MATH 122.

- PSY 100 General Psychology (3)

Prerequisites/Corequisites: GE A1 requirement.

Take one of the following courses:

- BIOL 260 Biostatistics (3)

Prerequisites: BIOL 211 or BIOL 207 or MICR 200; MATH 111 or MATH 113 or MATH 119A or MATH 122 all with a grade of "C" or better.

- KIN 483 Statistics in Human Movement Science (3)

Prerequisites: KIN 300, KIN 301, KIN 312.

- PSY 210 Introductory Statistics (4)

Prerequisites: PSY 100, GE A1 requirement, and eligible to take a General Education Mathematics course.

- STAT 108 Statistics for Everyday Life (3)

Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 12.

Upper Division:

Take all of the following courses:

- ATEP 304 Clinical Aspects of Athletic Training (3)

Prerequisites: Admission to the Athletic Training Program and consent of instructor.

- ATEP 306 Medical Aspects of Athletic Training (3)

Prerequisites: ATEP 304.

- ATEP 308A Athletic Training Evaluation I (3)

Prerequisites: ATEP 304.

- ATEP 308B Athletic Training Evaluation II (3)

Prerequisites: ATEP 308A.

- ATEP 309 Developmental and Therapeutic Exercise (3)

Prerequisites: KIN 300, KIN 301.

- ATEP 310 Therapeutic Approaches in Athletic Training (3)

Prerequisites: ATEP 304.

- ATEP 407 Management Strategies in Athletic Training (3)

Prerequisites: ATEP 490B.

- ATEP 490A Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 304; satisfactory completion of CSULB Athletic Training Program Health and Safety requirements; and satisfactory completion of CSULB Athletic Training Program Technical Standards Form.

- ATEP 490B Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490A.

- ATEP 490C Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490B.

- ATEP 490D Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490C.

- ATEP 491 Seminar in Athletic Training (1)

Prerequisites: Consent of instructor and successful completion of ATEP 490C. Corequisite: ATEP 490D.

- H SC 427 Drugs and Health (3)

Prerequisites: Upper division standing.

- KIN 315 Motor Development (3)

Prerequisites: BIOL 207, BIOL 208; PSY 100 or equivalent.

- KIN 339 Psychology of Sport Behavior and Athletic Performance (3)

Prerequisites: GE Foundation requirements, PSY 100 and upper division standing.

- KIN 462 Advanced Strength and Conditioning (3)

Prerequisites: KIN 300, KIN 301. Open to Athletic Training, Exercise Science and Fitness students in Kinesiology only or consent of instructor.

No Revised Roadmap

\*\*\*\*\*

List changes:

Core: Added KIN 201.

Lower Division:

Physics 100A - updated prerequisites - Math 120 no longer a prerequisite;

Dropped Chemistry course requirement;

STAT 108 - updated prerequisites - new prerequisites (no previous prerequisites).

Upper Division:

ATEP 304 - updated prerequisites.

ATEP 306 - updated prerequisites.

ATEP 308A - updated prerequisites.

ATEP 310 - updated prerequisites.

ATEP 407 - updated prerequisites.

Added ATEP 491.

ATEP 491 - updated prerequisites.

Dropped KIN 368;

Added KIN 462.

KIN 462 - updated prerequisites.

=====

**PROGRAM CHANGE** Minor in Consumer Affairs FCS UM01

## **CURRENT CATALOG TEXT**

Eighteen units as approved by a Consumer Affairs faculty advisor. The Minor in Consumer Affairs is available to any non-Consumer Affairs major.

Take 12 units of Consumer Affairs courses in consultation with an Academic Advisor.

.....

## **CHANGING INFORMATION**

New Catalog Text:

Fifteen units as approved by a Consumer Affairs faculty advisor. The Minor in Consumer Affairs is available to any non-Consumer Affairs major.

Take 9 units of Consumer Affairs courses in consultation with an Academic Advisor.

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List changes:

Eighteen units changed to Fifteen units  
12 units changed to 9 units.

No Revised Roadmap Necessary

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## PROGRAM - CHANGE

Program Name: Bachelor of Arts in Family and Consumer Sciences: Option in Child Development and Family Studies

## CURRENT CATALOG TEXT – INCLUDE ONLY THE INFORMATION THAT IS CHANGING

*(The most recent catalog text can be found at [www.csulb.edu/catalog/](http://www.csulb.edu/catalog/). Please copy and paste this link into your web browser and navigate to the proper program.)*

Take one of the following courses:

- FCS 392 Family and Consumer Sciences Field Experience (3)  
Prerequisite: Upper division standing; majoring in an FCS specialization; and consent of Instructor.  
Not open for credit to students with credit in FCSE 392.
- CDFS 492A Internship in Child Development and Family Studies (3)  
Prerequisites: Student must be a Family and Consumer Sciences: Child Development and Family Studies major; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; approval of a faculty advisor in Child Development and Family Studies; and CDFS 411, CDFS 413, and CDFS 414 or CDFS 415. Each prerequisite course must be completed with a grade of "C" or better. A course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Area Coordinator.
- CDFS 414 (2nd semester) Fieldwork with Preschool Children (3)  
Prerequisites: A grade of "C" or better in CDFS 111, CDFS 211, CDFS 214; or consent of instructor.
- CDFS 415 (2nd semester) Fieldwork with Infants/Toddlers (3)  
Prerequisites: A grade of "C" or better in CDFS 111, CDFS 211, CDFS 215; or consent of instructor.
- FCS 497 Directed Studies (3)  
Prerequisites: Junior standing; consent of instructor.  
Not open for credit to students with credit in FCSE 497.

Take 15 units from the following with advisor's approval:

- CDFS 319, CDFS 402, CDFS 409, CDFS 410, CDFS 412, CDFS 416A, CDFS 416B, CDFS 417, CDFS 418, CDFS 419, or CDFS courses not taken above.

.....

## CHANGING INFORMATION *(copy the text from the box above and then make the necessary edits):*

New Catalog Text:

Take one of the following courses:

- FCS 392A Field Experience in Child Development and Family Studies (3)  
Prerequisites: Upper division standing; major in Family and Consumer Sciences with an Option in Child Development and Family Studies; Consent of Instructor. Not open for credit to students with 6 units of FCSE 392. May not be taken concurrently with CDFS 492 A or CDFS 492B.
- CDFS 492A Internship in Child Development and Family Studies (3)  
Prerequisites: Student must be a Family and Consumer Sciences: Child Development and Family Studies major; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; approval of a faculty advisor in Child Development and Family Studies; and CDFS 411, CDFS 413, and CDFS 414 or CDFS 415. Each prerequisite course must be completed with a grade of "C" or better. A course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of

the Area Coordinator. CDFS 492A may not be taken concurrently with CDFS 492B or FCS 392A.

- CDFS 414 (2nd semester) Fieldwork with Preschool Children (3)

Prerequisites: A grade of "C" or better in CDFS 111, CDFS 211, CDFS 214; or consent of instructor.

- CDFS 415 (2nd semester) Fieldwork with Infants/Toddlers (3)

Prerequisites: A grade of "C" or better in CDFS 111, CDFS 211, CDFS 215; or consent of instructor.

- FCS 497 Directed Studies (3)

Prerequisites: Junior standing; consent of instructor.  
Not open for credit to students with credit in FCSE 497.

Take 15 units from the following with advisor's approval:

- CDFS 319, CDFS 402, CDFS 408, CDFS 409, CDFS 410, CDFS 412, CDFS 416A, CDFS 416B, CDFS 417, CDFS 418, CDFS 419, or CDFS courses not taken above.

\*\*\*\*\*

List changes: *(all changes must be delineated in the text box below):*

Add "A" as a suffix to FCS 392.

Change prerequisite of FCS 392A to Prerequisites: Upper division standing; major in Family and Consumer Sciences with an Option in Child Development and Family Studies; Consent of Instructor. Not open for credit to students with 6 units of FCSE 392. CDFS 492A may not be taken concurrently with CDFS 492B or FCS 392A.

Add the statement to the prerequisite for CDFS 492A: CDFS 492A may not be taken concurrently with CDFS 492B or FCS 392A.

Add new course CDFS 408 as an alternative in the 15-unit block

Revised Roadmap Attached

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**PROGRAM CHANGE** BA in Family and Consumer Sciences: Option in Family Life Education

#### **CURRENT CATALOG TEXT**

CDFS 492B Internship in Family Life Education (3)

Prerequisites: Student must be a major in Family and Consumer Sciences in the option of Family Life Education; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; have approval of a faculty advisor in Child Development and Family Studies; have completed CDFS 413 and CDFS 419 each with a grade of "C" or higher.

.....

#### **CHANGING INFORMATION**

New Catalog Text:

CDFS 492B Internship in Family Life Education (3)

Prerequisites: Student must be a major in Family and Consumer Sciences in the option of Family Life Education; have senior standing; have a 2.5 overall GPA or a 3.0 major GPA; have approval of a faculty advisor in Child Development and Family Studies; have completed CDFS 413 and CDFS 419 each with a grade of "C" or higher. CDFS 492B may not be taken concurrently with FCS 392A or CDFS 492A.

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List changes:

Added the following statement to the prerequisites for CDFS 492B: CDFS 492B may not be taken concurrently with FCS 392A or CDFS 492A.

No Revised Roadmap Necessary

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#### **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: CRJU 110 Introduction to Justice Research, Writing, and Reasoning 3 @ C-3  
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## Items Changing

Prerequisite(s): A grade of "C" or better in ENGL 100 or GE Composition (Area A1).

**ARTICULATION** – Minimal change. No articulation review is necessary.

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## COURSE - DROP

Current Course Information: CRJU 220 Terrorism and the Criminal Justice System 3 @ C-1

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**PROGRAM-CHANGE** Bachelor of Science in Criminal Justice

## CURRENT CATALOG TEXT

2. Cognate Courses: Take 6 courses in related disciplines (these satisfy CSULB General Education requirements) from the following:

- PHIL 170 Critical Reasoning (3)

=====

## CHANGING INFORMATION

New Catalog Text:

2. Cognate Courses: Take 6 courses in related disciplines (these satisfy CSULB General Education requirements) from the following:

- Any General Education Critical Thinking Course (Philosophy 170 preferred) (3)

\*\*\*\*\*

List changes:

Change "PHIL 170 Critical Reasoning (3)" to "Any General Education Critical Thinking Course (Philosophy 170 preferred) (3)"

Revised Roadmap Attached

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**PROGRAM CHANGE** Bachelor of Arts in Family and Consumer Sciences:  
Option in Fashion Merchandising

## CURRENT CATALOG TEXT \_

Fashion Merchandising and Design  
Undergraduate Programs  
Option in Fashion Merchandising (120 units)

*Take all of the following courses:*

- CAFF 321 Family and Consumer Resource Management (3)  
Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper division standing.
- CHEM 100 Chemistry and Today's World (4)  
Prerequisites: One GE Foundation course (GE categories A1, A2, A3 or B2).

- ECON 300 Fundamentals of Economics (3)  
Prerequisites: GE Foundation requirements.

...

- FMD 457 Global Sourcing for the Fashion Industry (3)

Prerequisites: Open only to Fashion Merchandising majors, Fashion Design majors, and Textiles minors.  
For Fashion Merchandising majors: A grade of "C" or better in FMD 355, ECON 300 and senior standing;  
for Fashion Design majors and Textiles minors: ECON 300 and Senior standing.

- FMD 492E Internship in Fashion Merchandising (3)

Prerequisites: A grade of "C" or better in FMD 451, FMD 455, or FMD 457. Student must be a major in Family and Consumer Sciences in the option of Fashion Merchandising; have senior standing, a 2.5 overall GPA or a 3.0 major GPA, approval of a faculty advisor in Fashion Merchandising and Design.

Take three of the following courses:

- FCS 392 FCS Field Experience (3)

Prerequisite: Upper division standing; majoring in a FCS specialization; consent of instructor.

Not open for credit to students with credit in FCSE 392.

- FCS 490 Selected Topics in Family and Consumer Sciences (1-3)

Prerequisites: None.

Not open for credit to students with credit in FCSE 490.

- FCS 490B New York Fashion Study Tour (1-3)

Prerequisites: None.

Not open for credit to students with credit in FCSE 490B.

- FCS 497 Directed Study (1-3)

Prerequisites: Upper division standing, consent of instructor.

Not open for credit to students with credit in FCSE 497.

- FMD 356 Fashion Retail Management (3)

Prerequisites: A grade of "C" or better in FMD 355.

- FMD advisor-approved elective.

Take one of the following courses:

- FMD 154 Fundamentals of Apparel Production (3)

Prerequisites: None.

- FMD 252 Analysis, Evaluation and Comparison of Ready To Wear (3)

Prerequisites: None.

Each course on the student's program planner must be completed with a grade of "C" or better. In addition, a course which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in a course for which it is a prerequisite. A student receiving a grade lower than "C" may proceed with other courses with approval of the Area Coordinator.

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## CHANGING INFORMATION

New Catalog Text:

Fashion Merchandising and Design

Undergraduate Programs

Option in Fashion Merchandising (120 units)

*Take all of the following courses:*

- CAFF 321 Family and Consumer Resource Management (3)  
Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper division standing.
- ECON 300 Fundamentals of Economics (3)  
Prerequisites: GE Foundation requirements.

...

- FMD 457 Global Sourcing for the Fashion Industry (3)

Prerequisites: Open only to Fashion Merchandising majors, Fashion Design majors, and Textiles minors.

For Fashion Merchandising majors: A grade of "C" or better in FMD 355, ECON 300 and senior standing;

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for Fashion Design majors and Textiles minors: ECON 300 and Senior standing.

- FMD 492E Internship in Fashion Merchandising (3)

Prerequisites: A grade of "C" or better in FMD 451 and FMD 455 or FMD 457. Student must be a major in Family and Consumer Sciences in the option of Fashion Merchandising; have senior standing, a 2.5 overall GPA or a 3.0 major GPA.

Take three of the following courses:

- FCS 490 Selected Topics in Family and Consumer Sciences (1-3)

Prerequisites: None.

Not open for credit to students with credit in FCSE 490.

- FCS 490B New York Fashion Study Tour (1-3)

Prerequisites: None.

- FCS 497 Directed Study (1-3)

Prerequisites: Upper division standing, consent of instructor.

- FMD 356 Fashion Retail Management (3)

Prerequisites: A grade of "C" or better in FMD 355.

- FMD 450 Cultural Perspectives of Dress (3)

Prerequisites: GE Foundation requirements; a grade of "C" or better in ANTH 120 or SOC 100 or 142 and upper-division standing.

- FMD 456 Historic Perspectives of Fashion (3)

Prerequisites: A grade of "C" or better in FMD 251, FMD 253 and in AH 111A or HIST 131; senior standing.

- FMD 458 Fashion Product Development (3)

Prerequisites: A grade of "C" or better in FMD 296 and FMD 353; senior standing.

- FMD advisor-approved upper division elective.

Take one of the following courses:

- FMD 154 Fundamentals of Apparel Production (3)

Prerequisites: None.

- FMD 252 Analysis, Evaluation and Comparison of Ready To Wear (3)

Prerequisites: None.

Take one of the following:

- CHEM 100 Chemistry and Today's World (4)

Prerequisites: One GE Foundation course (GE categories A1, A2, A3 or B2).

OR

- CHEM 111A. General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination.

Corequisite: MATH 109 or higher.

AND

- MATH 109. Modeling with Algebra (3)

Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11.

Each course on the student's program planner must be completed with a grade of "C" or better. In addition, a course which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in a course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Area Coordinator.

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List changes:

Prerequisites changed:

- FMD 458 remove: "Only open to Textiles and Clothing majors and Textiles minors. Open to Fashion Merchandising majors by permit only."

- FMD 492E Internship in Fashion Merchandising (3)

Prerequisites: A grade of "C" or better in FMD 451 and FMD 455 or FMD 457. Student must be a major in Family and Consumer Sciences in the option of Fashion Merchandising; have senior standing, a 2.5 overall GPA or a 3.0 major GPA.

FMD450, 456, 458 are added to the list of elective courses and FCS 392 is removed; added "upper division" to FMD Advisor-approved elective:

Take three of the following courses:

- FCS 490 Selected Topics in Family and Consumer Sciences (1-3)

Prerequisites: None.

Not open for credit to students with credit in FCSE 490.

- FCS 490B New York Fashion Study Tour (1-3)

Prerequisites: None.

- FCS 497 Directed Study (1-3)

Prerequisites: Upper division standing, consent of instructor.

- FMD 356 Fashion Retail Management (3)

Prerequisites: A grade of "C" or better in FMD 355.

- FMD 450 Cultural Perspectives of Dress (3)

Prerequisites: GE Foundation requirements; a grade of "C" or better in ANTH 120 or SOC 100 or 142 and upper-division standing.

- FMD 456 Historic Perspectives of Fashion (3)

Prerequisites: A grade of "C" or better in FMD 251, FMD 253 and in AH 111A or HIST 131; senior standing.

- FMD 458 Fashion Product Development (3)

Prerequisites: A grade of "C" or better in FMD 296 and 353; senior standing.

- FMD advisor-approved upper division elective.

Add CHEM 111A as an alternative to CHEM 100 as in:

Take one of the following:

- CHEM 100 Chemistry and Today's World (4)

Prerequisites: One GE Foundation course (GE categories A1, A2, A3 or B2).

OR

- CHEM 111A. General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination.

Corequisite: MATH 109 or higher.

AND

- MATH 109. Modeling with Algebra (3)

Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11.

Revised Roadmap Attached

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## **PROGRAM CHANGE** Minor in Fashion Merchandising FCS UM02

### CURRENT CATALOG TEXT

Fashion Merchandising and Design

Undergraduate Programs

Minor in Fashion Merchandising (FCS UM02)

Take the following 18 units:

- FMD 155 Introduction to the Fashion Industry (3)

Prerequisites: None.

- FMD 252 Analysis, Evaluation and Comparison of Ready-to-Wear (3)

Prerequisites: None.

- FMD 296 Computer Applications for Professionals (3)

Fashion Merchandising majors and minors: A grade of "C" or better in in FMD 155 and Computer Proficiency Exam (CPE) passage; Fashion Design majors or Textiles minors: a grade of "C" or better in FMD 152 and 155, Computer Proficiency Exam (CPE) passage. Students must identify themselves as FMD majors to the CPE test administrator so that the "Access" section of the CPE is excluded from their exam. Non- Fashion Merchandising majors or minors and non-Fashion Design majors or Textiles minors: Computer Proficiency Exam (CPE) Passage.

- FMD 351 Fashion Promotion and Sales (3)

Prerequisites: A grade of "C" or better in FMD 155 and FMD 296.

- FMD 355 Fashion Buying (3)

Prerequisites: A grade of "C" or better in FMD 155 and FMD 258, Computer Proficiency Exam passage.

- FMD 455 International Fashion Retailing (3)

Prerequisites: A grade of "C" or better in FMD 351; senior standing.

It is the student's responsibility to pass the Computer Proficiency Exam as a prerequisite for the following

courses: FMD 296, and FMD 355.

The Minor in Fashion Merchandising is available to any non-Fashion Merchandising and Design major.

CHANGING INFORMATION

New Catalog Text:

Fashion Merchandising and Design

Undergraduate Programs

Minor in Fashion Merchandising (FMD UM02)

Take the following 18 units:

- FMD 155 Introduction to the Fashion Industry (3)

Prerequisites: None.

- FMD 252 Analysis, Evaluation and Comparison of Ready-to-Wear (3)

Prerequisites: None.

- FMD 296 Computer Applications for Professionals (3)

Fashion Merchandising majors and minors: A grade of "C" or better in FMD 155 and Computer Proficiency Exam (CPE) passage; Fashion Design majors or Textiles minors: a grade of "C" or better in FMD 152 and FMD 155, Computer Proficiency Exam (CPE) passage. Students must identify themselves as FMD majors to the CPE test administrator so that the "Access" section of the CPE is excluded from their exam. Non- Fashion Merchandising majors or minors and non-Fashion Design majors or Textiles minors: Computer Proficiency Exam (CPE) Passage.

- FMD 351 Fashion Promotion and Sales (3)

Prerequisites: A grade of "C" or better in FMD 155 and FMD 296.

- FMD 355 Fashion Buying (3)

Prerequisites: A grade of "C" or better in FMD 155 and FMD 258, Computer Proficiency Exam passage.

- FMD 455 International Fashion Retailing (3)

Prerequisites: A grade of "C" or better in FMD 351; senior standing.

It is the student's responsibility to pass the Computer Proficiency Exam as a prerequisite for the following courses: FMD 296, and FMD 355.

\*\*\*\*\*

List changes:

Minor in Fashion Merchandising (FMD UM02)

Remove the following statement from the prerequisites:

The Minor in Fashion Merchandising is available to any non-Fashion Merchandising and Design major.

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Arts in Family and Consumer Sciences: Option in Fashion Design

**CURRENT CATALOG TEXT**

Fashion Merchandising and Design

Undergraduate Programs

Option in Fashion Design (120)

Take all of the following courses:

- CAFF 321 Family and Consumer Resource Management (3)

- CHEM 100 Chemistry and Today's World (4)

Prerequisites: One GE Foundation course (GE categories A1, A2, A3 or B2).

- ECON 300 Fundamentals of Economics (3)

Prerequisites: GE Foundation requirements.

- FMD 458 Fashion Product Development (3)

Prerequisites: A grade of "C" or better in FMD 296 and FMD 353; senior standing. Only open to Fashion Design majors and Textiles minors. Open to Fashion Merchandising majors by permit only.

- FMD 459 Computerized Apparel Flat Pattern (3)

Prerequisites: A grade of "C" or better in FMD 357, FMD 359.

- FMD 492M Internship in Apparel Design (3)

Prerequisites: A grade of "C" or better in FMD 452 or FMD 454. Student must be a major in Family and

Consumer Sciences in the option of Fashion Design; have senior standing, a 2.5 overall GPA or a 3.0 major GPA, approval of a faculty advisor in Fashion Merchandising and Design.

Take one of the following courses:

- HIST 131 Early Western Civilization (3)

Corequisite: ENGL 100.

- AH 111A Foundation Art History I (3)

Prerequisites: One GE Foundation course.

Each course on the student's program planner must be completed with a grade of "C" or better. In addition, a course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in a course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Area Coordinator.

.....  
**CHANGING INFORMATION**

New Catalog Text:

Fashion Merchandising and Design

Undergraduate Programs

Option in Fashion Design (120 units)

Take all of the following courses:

- CAFF 321 Family and Consumer Resource Management (3)

- ECON 300 Fundamentals of Economics (3)

Prerequisites: GE Foundation requirements.

- FMD 458 Fashion Product Development (3)

Prerequisites: A grade of "C" or better in FMD 296 and FMD 353; senior standing.

- FMD 459 Computerized Apparel Flat Pattern (3)

Prerequisites: A grade of "C" or better in FMD 357, FMD 359.

- FMD 492M Internship in Fashion Design (3)

Prerequisites: A grade of "C" or better in FMD 452 or FMD 454. Student must be a major in Family and Consumer Sciences in the option of Fashion Design; have senior standing, a 2.5 overall GPA or a 3.0 major GPA.

Take one of the following courses:

- HIST 131 Early Western Civilization (3)

Corequisite: ENGL 100.

- AH 111A Foundation Art History I (3)

Prerequisites: One GE Foundation course.

Take one of the following:

- CHEM 100 Chemistry and Today's World (4)

Prerequisites: One GE Foundation course (GE categories A1, A2, A3 or B2).

OR

- CHEM 111A General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination.

Corequisite: MATH 109 or higher.

AND

- MATH 109 Modeling with Algebra (3)

Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11.

Each course on the student's program planner must be completed with a grade of "C" or better. In addition, a course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in a course for which it is a prerequisite. A student receiving a grade lower than a "C" may proceed with other courses with approval of the Area Coordinator.

\*\*\*\*\*  
List changes:

We changed the name of the major to Fashion Design last year so we updated this change in the course title of the 492M course:

FMD 492M Internship in Fashion Design (3)

Prerequisites changed:

- FMD 492M Internship in Fashion Design (3)

Prerequisites: A grade of "C" or better in FMD 452 or FMD 454. Student must be a major in Family and Consumer Sciences in the option of Fashion Design; have senior standing, a 2.5 overall GPA or a 3.0 major GPA.

- FMD 458: remove: "Only open to Fashion Design majors and Textiles minors. Open to Fashion Merchandising majors by permit only."

Add CHEM 111A as alternative to CHEM 100 as in:

Take one of the following:

- CHEM 100 Chemistry and Today's World (4)

Prerequisites: One GE Foundation course (GE categories A1, A2, A3 or B2).

OR

- CHEM 111A General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination.

Corequisite: MATH 109 or higher.

AND

- MATH 109 Modeling with Algebra (3)

Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11.

Revised Roadmap Attached

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## **PROGRAM CHANGE HCA\_BS01 – BS in Health Care Administration**

### **CURRENT CATALOG TEXT –**

#### **Prerequisites**

1. All students must complete a minimum of 14 semester units or the equivalent in prerequisite preparatory course for the major: ACCT 201, ECON 101 or ECON 300, SOC 250 or PSY 210 or STAT 108 and BIOL 200 or BIOL 205 (or equivalent). These courses may be taken after admission to the program. Computer proficiency in word processing, spreadsheet, database and presentation software is expected. Business calculus (MATH 115) is recommended.

#### **Graduation Requirements**

3. Complete the major core course requirements:

- IS 233 Introduction to Computer Systems and Applications (3)

Prerequisites: None

- HSC 150 Medical Terminology (1)

Prerequisites: None.

- HSC 400 Principles of Epidemiology (3)

Prerequisite: Open to Health Care Administration and Health Science majors and minors only. Health Care Administration majors: SOC 250 or PSY 210 or STAT 108. Health Science majors: HSC 403.

- HCA 300 The Health Care System (3)

Prerequisites: None.

- HCA 312 Health Personnel Management (3)

Prerequisite: Open to Health Care Administration majors only. Prerequisite/Corequisite: HCA 300.

- HCA 340 Legal Aspects of Health Administration (3)

Prerequisite: Open to Health Care Administration majors only. Prerequisite/Corequisite: HCA 300.

- HCA 341 Financial Management of Health Care Institutions (3)

Prerequisites: Open to Health Care Administration majors only and a grade of "C" or better in ACCT 201.

Prerequisite/Corequisite: HCA 300.

- HCA 353 Marketing for Health Services Organizations (3)

Prerequisites: Open to Health Care Administration majors only and a grade of "C" or better in ECON 101 or ECON 300.

Prerequisite/Corequisite: HCA 300.

- HCA 410 Health Management and Organization (3)

Prerequisites: Open to Health Care Administration majors only. Prerequisite/Corequisite: HCA 300.

- HCA 416 Management and Information Systems (3)

Prerequisite: Open to Health Care Administration majors only. Prerequisite/Corequisite: HCA 300.

- HCA 450 Quality Assurance of Health Care (3)

Prerequisites: Open to Health Care Administration majors only and a grade of "C" or better in HCA 300 and HCA 465.

- HCA 465 Analysis and Evaluation of Health Care Services (3)

Prerequisites: Open to Health Care Administration majors only and a grade of "C" or better in PSY 210 or SOC 250 or STAT 108 or equivalent.

- HCA 468 Principles of Risk Management and Patient Safety (3)

Prerequisites: A grade of "C" or better in HCA 340, HCA 341 and HCA 450.

- HCA 480 Internship in Health Care Administration (3)

Prerequisites: Open to Health Care Administration majors only and a grade of "C" or better in HCA 300, HCA 312, HCA 341, HCA 410, HCA 465 and HSC 150.

- HCA 481 Internship & Career Development in HCA (3)

Prerequisites: Open to Health Care Administration majors only and HCA 480.

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### **CHANGING INFORMATION**

New Catalog Text:

Prerequisites

1. All students must complete a minimum of 14 semester units or the equivalent in prerequisite preparatory course for the major: ACCT 201, ECON 101 or ECON 300, SOC 250 or PSY 210 or STAT 108 and BIOL 205 (or equivalent). Computer proficiency in word processing, spreadsheet, database and presentation software is expected. Business calculus (MATH 115) is recommended.

Graduation Requirements

3. Complete the major core course requirements:

Complete the major core course requirements:

- IS 233 Introduction to Computer Systems and Applications (3)

Prerequisites: None

- HSC 150 Medical Terminology (1)

Prerequisites: None.

- HCA 300 The Health Care System (3)

Prerequisites: None.

- HCA 312 Health Personnel Management (3)

Prerequisite: Open to Health Care Administration majors only. Prerequisite/Corequisite: HCA 300.

- HCA 340 Legal Aspects of Health Administration (3)

Prerequisite: Open to Health Care Administration majors only. Prerequisite/Corequisite: HCA 300.

- HCA 341 Financial Management of Health Care Institutions (3)

Prerequisites: Open to Health Care Administration majors only and a grade of "C" or better in ACCT 201.

Prerequisite/Corequisite: HCA 300.

- HCA 353 Marketing for Health Services Organizations (3)

Prerequisites: Open to Health Care Administration majors only and a grade of "C" or better in ECON 101 or ECON 300.

Prerequisite/Corequisite: HCA 300.

- HCA 410 Health Management and Organization (3)

Prerequisites: Open to Health Care Administration majors only. Prerequisite/Corequisite: HCA 300.

- HCA 416 Management and Information Systems (3)

Prerequisite: Open to Health Care Administration majors only. Prerequisite/Corequisite: HCA 300.

- HCA 428 Population Health Management for Health Care Administrators (3)

Prerequisites: HCA 300, (SOC 250 or PSY 210 or STAT 108), upper division standing, or instructor consent.

- HCA 450 Quality Assurance of Health Care (3)

Prerequisites: Open to Health Care Administration majors only and a grade of "C" or better in HCA 300 and HCA 465.

- HCA 465 Analysis and Evaluation of Health Care Services (3)

Prerequisites: Open to Health Care Administration majors only and a grade of "C" or better in PSY 210 or SOC 250 or STAT 108 or equivalent.

- HCA 468 Principles of Risk Management and Patient Safety (3)

Prerequisites: A grade of "C" or better in HCA 340, HCA 341 and HCA 450.

- HCA 480 Internship in Health Care Administration (3)

Prerequisites: Open to Health Care Administration majors only and a grade of "C" or better in HCA 300, HCA 312, HCA 341, HCA 410, HCA 465 and HSC 150.

- HCA 481 Internship & Career Development in HCA (3)

Prerequisites: Open to Health Care Administration majors only and HCA 480.

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List changes:

BIO 200 is being removed as a prerequisite course.

Students who are taking perquisites are now assigned pre-major status.

HCA 428 is a new course replacing HSC 400.

No Revised Roadmap Necessary

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**COURSE – NEW – LOWER DIVISION**

KIN 201. Introduction to Kinesiology (3)

Introduction to Kinesiology

Prerequisites: None.

Survey of the discipline of kinesiology. Analysis of the knowledge base of the discipline and careers in physical activity professions. Focus is on the integrative nature of the discipline. Open to Kinesiology majors and pre-majors only. Letter grade only (A-F).

3 units @ C-2

Articulation wanted, transfer course may meet goals.

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## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: KIN 218. Introduction to the Fitness Industry 2 @ C-4

### **ITEMS CHANGING**

Course Title: Professional Development in the Fitness Industry  
Course Short Title Prof Dev in Fitness:

**ARTICULATION** – Title change. No articulation review necessary.

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## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: KIN 237 Techniques and Analysis of Aquatic Skills (2) 1 unit @ C-2; 1 unit @ C-15

### **ITEMS CHANGING**

Prerequisites: American Red Cross Community First Aid and CPR certification or equivalent. Open to Kinesiology majors in the Adapted Physical Education and K-12 Physical Education teacher education option only. To maintain enrollment, students must pass the swimming proficiency examination that will be administered the first week of instruction.

**ARTICULATION** – No Articulation. Course does not meet goals.

=====

**PROGRAM CHANGE** Bachelor of Arts (BA) in Kinesiology Option in Adapted Physical Education

### **CURRENT CATALOG TEXT –**

Core

Take all of the following courses:

- KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

Lower Division:

Take all of the following courses:

- BIOL 207 Human Physiology (4)

Prerequisites: GE Foundation requirements.

- BIOL 208 Human Anatomy (4)

Prerequisites: GE Foundation requirements.

- PSY 100 General Psychology (3)

Prerequisites/Corequisites: GE A1 requirement.

- KIN 149A Self Defense (1)

Prerequisites: None.

- KIN 237 Techniques and Analysis of Aquatic Skills (2)

Prerequisites: KIN 125A or consent of instructor, American Red Cross Community First Aid and CPR certifications or equivalent. To maintain enrollment, students must pass the swimming proficiency examination that will be administered the first week of instruction.

- KIN 250 Techniques of Basketball (1)

Prerequisites: None.

- KIN 251 Techniques of Flag Football (1)

Prerequisites: None.

- KIN 253 Techniques of Soccer (1)

Prerequisites: None.

- KIN 255 Techniques of Softball (1)

Prerequisites: None.

- KIN 257 Techniques of Volleyball (1)

Prerequisites: None.

- KIN 261 Techniques and Analysis of Fundamental Rhythms (2)  
Prerequisites: None.
- KIN 264 Techniques of Golf (1)  
Prerequisites: None.
- KIN 265 Techniques of Gymnastics (1)  
Prerequisites: None.
- KIN 266 Techniques of Badminton (1)  
Prerequisites: None.
- KIN 267 Techniques of Tennis (1)  
Prerequisites: None.
- KIN 268 Techniques of Track and Field (1)  
Prerequisites: None.
- KIN 270 Professional Practices in Public School Physical Education (3)  
Prerequisites: None.

Upper Division:

Take all of the following courses:

- KIN 315 Motor Development (3)  
Prerequisites: BIOL 207, BIOL 208; PSY 100 or equivalent.
- KIN 320 Adapted Physical Education (3)  
Prerequisites: BIOL 208.
- KIN 335 Historical and Cultural Foundations of Sport and Kinesiology in America (3)  
Prerequisites: Upper Division Standing.
- KIN 343 Techniques and Analysis of Fitness (2)  
Prerequisites: KIN 270.
- KIN 370 Movement Theory and Practice of Elementary Physical Education (3)  
Prerequisites: KIN 270.
- KIN 380 Principles, Organization and Management of Secondary School Physical Education (3)  
Prerequisites: KIN 149A, KIN 237, KIN 250, KIN 253, KIN 255, KIN 257, KIN 261, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268, KIN 343, KIN 370 or consent of instructor. Corequisites: EDSS 300P.
- KIN 387 Physical Activities for the Disabled (3)  
Prerequisites: KIN 320, KIN 427. Corequisites: KIN 489A.
- KIN 388 Program Planning and Instruction in Adapted Physical Education (3)  
Prerequisites: KIN 387. Corequisites: KIN 489A.
- KIN 427 Physical and Motor Assessment (3)  
Prerequisites: KIN 315 or equivalent and KIN 320 or equivalent; upper-division undergraduate or graduate standing.
- KIN 460 Applied Theory & Analysis of Non-Traditional Physical Education Games & Activities (2)  
Prerequisites: KIN 370, senior standing.

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## CHANGING INFORMATION

New Catalog Text:

Take all of the following courses:

- Kin 201 Introduction to Kinesiology (3)  
Prerequisites: None
- KIN 300 Biomechanics of Human Movement (3)  
Prerequisites: BIOL 208 or equivalent.
- KIN 301 Exercise Physiology (3)  
Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.
- KIN 312 Motor Control and Learning (3)  
Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.
- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)  
Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

Lower Division:

Take all of the following courses:

- BIOL 207 Human Physiology (4)  
Prerequisites: GE Foundation requirements.
- BIOL 208 Human Anatomy (4)  
Prerequisites: GE Foundation requirements.
- PSY 100 General Psychology (3)  
Prerequisites/Corequisites: GE A1 requirement.
- KIN 149A Self Defense (1)

Prerequisites: None.

- KIN 237 Techniques and Analysis of Aquatic Skills (2)

Prerequisites: KIN 125A or consent of instructor, American Red Cross Community First Aid and CPR certifications or equivalent. To maintain enrollment, students must pass the swimming proficiency examination that will be administered the first week of instruction.

- KIN 250 Techniques of Basketball (1)

Prerequisites: None.

- KIN 251 Techniques of Flag Football (1)

Prerequisites: None.

- KIN 253 Techniques of Soccer (1)

Prerequisites: None.

- KIN 255 Techniques of Softball (1)

Prerequisites: None.

- KIN 257 Techniques of Volleyball (1)

Prerequisites: None.

- KIN 261 Techniques and Analysis of Fundamental Rhythms (2)

Prerequisites: None.

- KIN 264 Techniques of Golf (1)

Prerequisites: None.

- KIN 265 Techniques of Gymnastics (1)

Prerequisites: None.

- KIN 266 Techniques of Badminton (1)

Prerequisites: None.

- KIN 267 Techniques of Tennis (1)

Prerequisites: None.

- KIN 268 Techniques of Track and Field (1)

Prerequisites: None.

- KIN 270 Professional Practices in Public School Physical Education (3)

Prerequisites: None.

Upper Division:

Take all of the following courses:

- KIN 315 Motor Development (3)

Prerequisites: BIOL 207, BIOL 208; PSY 100 or equivalent.

- KIN 320 Adapted Physical Education (3)

Prerequisites: BIOL 208.

- KIN 343 Techniques and Analysis of Fitness (2)

Prerequisites: KIN 270.

- KIN 370 Movement Theory and Practice of Elementary Physical Education (3)

Prerequisites: KIN 270.

- KIN 380 Principles, Organization and Management of Secondary School Physical Education (3)

Prerequisites: KIN 149A, KIN 237, KIN 250, KIN 253, KIN 255, KIN 257, KIN 261, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268, KIN 343, KIN 370 or consent of instructor. Corequisites: EDSS 300P.

- KIN 387 Physical Activities for the Disabled (3)

Prerequisites: KIN 320, KIN 427. Corequisites: KIN 489A.

- KIN 388 Program Planning and Instruction in Adapted Physical Education (3)

Prerequisites: KIN 387. Corequisites: KIN 489A.

- KIN 427 Physical and Motor Assessment (3)

Prerequisites: KIN 315 or equivalent and KIN 320 or equivalent; upper-division undergraduate or graduate standing.

- KIN 460 Applied Theory & Analysis of Non-Traditional Physical Education Games & Activities (2)

Prerequisites: KIN 370, senior standing.

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List changes:

Added: to the Core KIN 201 Introduction to Kinesiology (3)

Dropped: KIN 335 Historical and Cultural Foundations of Sport and Kinesiology in America (3)

Prerequisites: Upper Division Standing.

No Revised Roadmap Necessary

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**PROGRAM -CHANGE** Bachelor of Arts (BA) in Kinesiology Option in K-12 Physical Education - Teacher Education

## **CURRENT CATALOG TEXT**

Core

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Take all of the following courses:

- KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

Lower Division:

Take all of the following courses:

- BIOL 207 Human Physiology (4)

Prerequisites: GE Foundation requirements.

- BIOL 208 Human Anatomy (4)

Prerequisites: GE Foundation requirements.

- PSY 100 General Psychology (3)

Prerequisites/Corequisites: GE A1 requirement.

- KIN 149A Self Defense (1)

Prerequisites: None.

- KIN 237 Techniques and Analysis of Aquatic Skills (2)

Prerequisites: KIN 125A or consent of instructor, American Red Cross Community First Aid and CPR certifications or equivalent. To maintain enrollment, students must pass the swimming proficiency examination that will be administered the first week of instruction.

- KIN 250 Techniques of Basketball (1)

Prerequisites: None.

- KIN 251 Techniques of Flag Football (1)

Prerequisites: None.

- KIN 253 Techniques of Soccer (1)

Prerequisites: None.

- KIN 255 Techniques of Softball (1)

Prerequisites: None.

- KIN 257 Techniques of Volleyball (1)

Prerequisites: None.

- KIN 261 Techniques and Analysis of Fundamental Rhythms (2)

Prerequisites: None.

- KIN 264 Techniques of Golf (1)

Prerequisites: None.

- KIN 265 Techniques of Gymnastics (1)

Prerequisites: None.

- KIN 266 Techniques of Badminton (1)

Prerequisites: None.

- KIN 267 Techniques of Tennis (1)

Prerequisites: None.

- KIN 268 Techniques of Track and Field (1)

Prerequisites: None.

- KIN 270 Professional Practices in Public School Physical Education (3)

Prerequisites: None.

Upper Division:

Take all of the following courses:

- KIN 315 Motor Development (3)

Prerequisites: BIOL 207, BIOL 208; PSY 100 or equivalent.

- KIN 320 Adapted Physical Education (3)

Prerequisites: BIOL 208.

- KIN 335 Historical and Cultural Foundations of Sport and Kinesiology in America (3)

Prerequisites: Upper Division Standing.

- KIN 343 Techniques and Analysis of Fitness (2)

Prerequisites: KIN 270.

- KIN 370 Movement Theory and Practice of Elementary Physical Education (3)

Prerequisites: KIN 270.

- KIN 380 Principles, Organization and Management of Secondary School Physical Education (3)

Prerequisites: KIN 149A, KIN 237, KIN 250, KIN 253, KIN 255, KIN 257, KIN 261, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268, KIN 343, KIN 370 or consent of instructor. Corequisites: EDSS 300P.

- KIN 457 Applied Theory of Teaching Team Sports (3)

Prerequisites: KIN 250, KIN 251, KIN 253, KIN 255, KIN 257, KIN 270 or consent of instructor; senior standing.

- KIN 460 Applied Theory & Analysis of Non-Traditional Physical Education Games & Activities (2)

Prerequisites: KIN 370, senior standing.

- KIN 461 Applied Theory of Teaching Individual and Dual Sports (3)

Prerequisites: KIN 237, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268, KIN 270, or consent of instructor, senior standing.

- KIN 477 Measurement and Curriculum in Physical Education (3)

Prerequisites: KIN 343, KIN 370 or consent of instructor.

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## **CHANGING INFORMATION**

New Catalog Text:

Take all of the following courses:

- Kin 201 Introduction to Kinesiology (3)

Prerequisites: None

- KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

Lower Division:

Take all of the following courses:

- BIOL 207 Human Physiology (4)

Prerequisites: GE Foundation requirements.

- BIOL 208 Human Anatomy (4)

Prerequisites: GE Foundation requirements.

- PSY 100 General Psychology (3)

Prerequisites/Corequisites: GE A1 requirement.

- KIN 149A Self Defense (1)

Prerequisites: None.

- KIN 237 Techniques and Analysis of Aquatic Skills (2)

American Red Cross Community First Aid and CPR certifications or equivalent. To maintain enrollment, students must pass the swimming proficiency examination that will be administered the first week of instruction.

- KIN 250 Techniques of Basketball (1)

Prerequisites: None.

- KIN 251 Techniques of Flag Football (1)

Prerequisites: None.

- KIN 253 Techniques of Soccer (1)

Prerequisites: None.

- KIN 255 Techniques of Softball (1)

Prerequisites: None.

- KIN 257 Techniques of Volleyball (1)

Prerequisites: None.

- KIN 261 Techniques and Analysis of Fundamental Rhythms (2)

Prerequisites: None.

- KIN 264 Techniques of Golf (1)

Prerequisites: None.

- KIN 265 Techniques of Gymnastics (1)

Prerequisites: None.

- KIN 266 Techniques of Badminton (1)

Prerequisites: None.

- KIN 267 Techniques of Tennis (1)

Prerequisites: None.

- KIN 268 Techniques of Track and Field (1)

Prerequisites: None.

- KIN 270 Professional Practices in Public School Physical Education (3)

Prerequisites: None.

Upper Division:

Take all of the following courses:

- KIN 315 Motor Development (3)

Prerequisites: BIOL 207, BIOL 208; PSY 100 or equivalent.

- KIN 320 Adapted Physical Education (3)

Prerequisites: BIOL 208.

- KIN 343 Techniques and Analysis of Fitness (2)

Prerequisites: KIN 270.

- KIN 370 Movement Theory and Practice of Elementary Physical Education (3)

Prerequisites: KIN 270.

- KIN 380 Principles, Organization and Management of Secondary School Physical Education (3)

Prerequisites: KIN 149A, KIN 237, KIN 250, KIN 251, KIN 253, KIN 255, KIN 257, KIN 261, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268, KIN 343, KIN 370 or consent of instructor. Suggested EDSS 300P concurrently.

- KIN 457 Applied Theory of Teaching Team Sports (3)

Prerequisites: KIN 250, KIN 251, KIN 253, KIN 255, KIN 257, KIN 270 or consent of instructor; senior standing.

- KIN 460 Applied Theory & Analysis of Non-Traditional Physical Education Games & Activities (2)

Prerequisites: KIN 370, senior standing.

- KIN 461 Applied Theory of Teaching Individual and Dual Sports (3)

Prerequisites: KIN 237, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268, KIN 270, or consent of instructor, senior standing.

- KIN 477 Measurement and Curriculum in Physical Education (3)

Prerequisites: KIN 343, KIN 370 or consent of instructor.

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List changes:

Added: to the Core KIN 201 Introduction to Kinesiology (3)

Dropped: KIN 335 Historical and Cultural Foundations of Sport and Kinesiology in America (3)

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Science in Kinesiology Option in Exercise Science

#### **CURRENT CATALOG TEXT**

Core:

Take all of the following courses:

- KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

Lower Division:

Take all of the following courses:

- MATH 113 (or higher) Precalculus Algebra (3)

Prerequisites: Appropriate ELM score, ELM exemption or MAPB11.

- CHEM 111A General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination.

Corequisite: MATH 109 or higher.

- CHEM 111B General Chemistry (5)

Prerequisites: CHEM 111A and MATH 113 or MATH 115 or MATH 117 or MATH 119A or MATH 122 all with a grade of "C" or better.

- KIN 263 Techniques in Physical Fitness (2)

Prerequisites: None.

- BIOL 207 Human Physiology (4)

Prerequisites: GE Foundation requirements.

- BIOL 208 Human Anatomy (4)

Prerequisites: GE Foundation requirements.

- PHYS 100A General Physics (4)

Prerequisites: MATH 109 or MATH 113 or MATH 119A or MATH 120 or MATH 122.

- PHYS 100B General Physics (4)

Prerequisites: PHYS 100A.

- PSY 100 General Psychology (3)

Prerequisites/Corequisites: GE A1 requirement.

Take 15 units (minimum 3 units from KIN) of elective courses from the following:

- BIOL 200, BIOL 211, BIOL 212, BIOL 213 (BIOL 111 and BIOL 111L, BIOL 212 and BIOL 212L, BIOL 213 and BIOL 213L if courses taken prior to this catalog year), BIOL 301, BIOL 340, BIOL 341, BIOL 342 and BIOL 342L, BIOL 345, BIOL 441, BIOL 443, BIOL 445; CHEM 227, CHEM 448; NUTR 132, NUTR 331A, NUTR 331B, NUTR 439; HSC 150; KIN 315, KIN 320, KIN 339\*, KIN 364, KIN 367, KIN 430\*, KIN 431\*, KIN 432\*, KIN 462\*, KIN 465\*, KIN 466\*, KIN 494, KIN 495, KIN 497; MICR 200, MICR 211; PSY 327, PSY 370.

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## CHANGING INFORMATION

New Catalog Text:

Core:

Take all of the following courses:

- KIN 201 Introduction to Kinesiology (3)

Prerequisites: None

KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

Lower Division:

Take all of the following courses:

- MATH 113 (or higher) Precalculus Algebra (3)

Prerequisites: Appropriate ELM score, ELM exemption or MAPB11.

- CHEM 111A General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination.

Corequisite: MATH 109 or higher.

- CHEM 111B General Chemistry (5)

Prerequisites: CHEM 111A and MATH 113 or MATH 115 or MATH 117 or MATH 119A or MATH 122 all with a grade of "C" or better.

- KIN 263 Techniques in Physical Fitness (2)

Prerequisites: None.

- BIOL 207 Human Physiology (4)

Prerequisites: GE Foundation requirements.

- BIOL 208 Human Anatomy (4)

Prerequisites: GE Foundation requirements.

- PHYS 100A General Physics (4)

Prerequisites: MATH 109 or MATH 113 or MATH 119A or MATH 120 or MATH 122.

- PHYS 100B General Physics (4)

Prerequisites: PHYS 100A.

- PSY 100 General Psychology (3)

Prerequisites/Corequisites: GE A1 requirement.

Take 12 units (minimum 3 units from KIN) of elective courses from the following:

- BIOL 200, BIOL 211, BIOL 212, BIOL 213, BIOL 301, BIOL 340, BIOL 341, BIOL 342 and BIOL 342L, BIOL 345, BIOL 441, BIOL 443, BIOL 445; CHEM 227, CHEM 448; NUTR 132, NUTR 331, NUTR 439; H SC 150; KIN 315, KIN 320, KIN 339\*, KIN 364, KIN 367, KIN 430\*, KIN 431\*, KIN 432\*, KIN 462\*, KIN 465\*, KIN 466\*, KIN 494, KIN 495, KIN 497; MICR 200, MICR 211; PSY 327, PSY 370.

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List changes:

Adding KIN 201 to Core

Dropping concentration electives from 15 to 12 units

Adjusting elective list: NUTR 331A,B dropped and replaced with NUTR 331.

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Science in Kinesiology Option in Fitness

## CURRENT CATALOG TEXT

Core:

Take all of the following courses:

- KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

Take nine units of elective courses from the following:

- ATEP 207, ATEP 309; NUTR 439; HSC 421, HSC 423, HSC 427; KIN 315, KIN 335, KIN 462, KIN 487; REC 421, REC 423, REC 425, REC 427.

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## CHANGING INFORMATION

New Catalog Text:

Core:

Take all of the following courses:

- KIN 201 Introduction to Kinesiology (3)

Prerequisites: None

KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

Take six units of elective courses from the following:

- ATEP 207, ATEP 309; NUTR 439; HSC 421, HSC 423, HSC 427; KIN 315, KIN 335, KIN 462, KIN 487; REC 421, REC 423, REC 425, REC 427.

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List changes:

Adding KIN 201 to Core

Dropped electives from 9 units to 6 units.

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Science in Kinesiology Option in Sport Psychology and Leadership

## CURRENT CATALOG TEXT

Core:

Take all of the following courses:

- KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

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Concentration in Sport Psychology

Elective Courses:

Select 15 units (minimum 3 units from KIN and 9 units from PSY). At least 7 units must be upper division) from the following courses:

- ANTH 353, ANTH 412, HSC 427; KIN 156, KIN 210, KIN 315, KIN 489B, KIN 497; PSY 220, PSY 241, PSY 301, PSY 332, PSY 333, PSY 336, PSY 351, PSY 370, PSY 373, PSY 378, PSY 453, PSY 475.

Concentration in Leadership

Elective Courses:

Select 15 units (Minimum 3 units from KIN. At least 7 units must be upper division) from the following courses:

- ANTH 353, ANTH 412; CBA 400; COMM 306, COMM 335, COMM 411; H SC 427; KIN 156, KIN 200, KIN 210, KIN 489B, KIN 497; REC 321, REC 322, REC 324, REC 340I, REC 427; PSY 351, PSY 453.

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**CHANGING INFORMATION**

New Catalog Text:

Core:

Take all of the following courses:

- KIN 201 Introduction to Kinesiology (3)

Prerequisites: None

KIN 300 Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent.

- KIN 301 Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with a grade of "C" or better or consent of instructor.

- KIN 312 Motor Control and Learning (3)

Prerequisites: For KIN majors: BIOL 207, BIOL 208; PSY 100. For PSY Neuroscience majors: BIOL 208, BIOL 342; PSY 100.

- KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing. Open to Kinesiology majors only.

Concentration in Sport Psychology

Elective Courses:

Select 12 units (minimum 3 units from KIN and 6 units from PSY). At least 7 units must be upper division) from the following courses:

- ANTH 353, ANTH 412, H SC 427; KIN 156, KIN 210, KIN 315, KIN 489B, KIN 497; PSY 220, PSY 241, PSY 301, PSY 332, PSY 333, PSY 336, PSY 351, PSY 370, PSY 373, PSY 378, PSY 453, PSY 475.

Concentration in Leadership

Elective Courses:

Select 12 units (Minimum 3 units from KIN. At least 7 units must be upper division) from the following courses:

- ANTH 353, ANTH 412; CBA 400; COMM 306, COMM 335, COMM 411; H SC 427; KIN 156, KIN 200, KIN 210, KIN 489B, KIN 497; REC 321, REC 322, REC 324, REC 340, REC 427; PSY 351, PSY 453.

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List changes:

Adding KIN 201 to Core

Dropped concentration electives from 15 units to 12 units.

Electives for concentration in Sport Psychology—9 units from PSY became 6.

No Revised Roadmap Necessary

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END.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH**

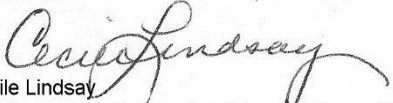
**Office of the Vice Provost for Academic Affairs and  
Dean of Graduate Studies**

December 19, 2014

**CERTIFICATION 15 - 06**

The following changes to the curriculum have completed the University review processes. New and changed courses will become effective Fall 2015 unless otherwise noted on the curriculum form. Changed program requirements will become effective Fall 2015.

Certified:

  
Cecile Lindsay  
Vice Provost for Academic Affairs and Dean of Graduate Studies

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**COLLEGE OF LIBERAL ARTS**

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**PROGRAM CHANGE** Bachelor of Arts in American Studies

**CURRENT CATALOG TEXT –**

Bachelor of Arts in American Studies (120 units)

American Studies is an interdisciplinary study of American culture. The American Studies Program offers a major leading to the bachelor's degree and a minor. The Program is governed by a committee of faculty from various departments and schools who also serve as advisors. Majors confer with the program director to plan their programs, which are recorded on official advising forms.

Students planning to major in American Studies should consult the program director early in their academic careers for general education and preparatory course recommendations and for teaching credential information.

**Requirements**

A minimum of 36 units distributed as follows:

Core courses (21 units):

*Take the following courses:*

- AMST 300 Introduction to American Studies (3)  
Prerequisites: None
- AMST 350 California Culture (3)  
Prerequisites: GE Foundation requirement; upper-division standing Interdisciplinary examination of the culture of California.
- AMST 498 Senior Seminar in American Studies (3)  
Prerequisites: Completion of AMST 300 and 18 units of upper-division work in American Studies or affiliated fields.

*Take 6 additional units in AMST-designated courses, which include AMST 351, AMST 360, AMST 421 and AMST 495.*

*Take 3 units from the following courses:*

- HIST 477A American Cultural History (3)  
Prerequisites: None
- HIST 477B American Cultural History (3)  
Prerequisites: None

*Take 3 units from the following courses:*

- ENGL 372 Comedy in the United States (3)  
Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing.
- ENGL 375 U.S. Ethnic Writers (3)  
Prerequisites: ENGL 100; GE Foundation requirements.

Elective pattern (15 units):

Students choose a five-course elective pattern in consultation with the program advisor in one of the

following areas of concentration. No more than two courses in this elective pattern can come from any one academic department.

- 1. American Institutions, Ideas, and Experiences
- 2. Diversity and Difference
- 3. Popular Culture, Media, and Consumerism
- 4. Public Culture and Civic Engagement
- 5. Student Designed Area of Concentration

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## CHANGING INFORMATION

New Catalog Text:

### Requirements

A minimum of 36 units distributed as follows:

Core courses (21 units):

*Take the following courses:*

- AMST 300 Introduction to American Studies (3)  
Prerequisites: None
- AMST 350 California Culture (3)  
Prerequisites: GE Foundation requirement; upper-division standing Interdisciplinary examination of the culture of California.
- AMST 498 Senior Seminar in American Studies (3)  
Prerequisites: Completion of AMST 300 and 18 units of upper-division work in American Studies or affiliated fields.

*Take 6 additional units in AMST-designated courses, which include AMST 351, AMST 360, AMST 421 and AMST 495.*

*Take 3 units from the following courses:*

- HIST 477A American Cultural History (3)  
Prerequisites: None
- HIST 477B American Cultural History (3)  
Prerequisites: None

*Take 3 units from the following courses:*

- ENGL 372 Comedy in the United States (3)  
Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing.
- ENGL 375 U.S. Ethnic Writers (3)  
Prerequisites: ENGL 100; GE Foundation requirements.

Elective pattern (15 units):

Students choose a five-course elective pattern in consultation with the program advisor in one of the following areas of concentration. No more than two courses in this elective pattern can come from any one academic department.

1. American Institutions, Ideas, and Experiences
2. Diversity and Difference
3. Popular Culture, Media, and Consumerism
4. Public Culture and Civic Engagement
5. America and the World
6. Student Designed Area of Concentration

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List changes:

1. Deleted unnecessary text about the program and its governance (that information already appears under "Department Information" in the catalog.
2. Added "America and the World" to the list of elective patterns.

No Revised Roadmap Necessary

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## COURSE – CHANGE – LOWER DIVISION

Current Course Information: ASAM 200. Asian American Interethnic Relations 3 units at C-2

### Items Changing

Prerequisite: Completion of at least one GE Foundation course.

ARTICULATION – No change to articulation.

## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: ASAM 260 Introduction to Asian American Literature 3 units at C-4

### **Items Changing**

Prerequisite: Completion of at least one Foundation course.

ARTICULATION – No change to articulation.

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## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: A/ST 200 Popular Culture in East Asia 3 units at C-2

### **Items Changing**

Prerequisite: ENGL 100 or its equivalent

ARTICULATION – No articulation. Course does not meet goals.

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## **PROGRAM CHANGE Bachelor of Arts in Asian Studies**

### **CURRENT CATALOG TEXT –**

Asia and Business concentration (any four courses below):

Economics and Finance:

ECON 300; ECON 310, ECON 311, ECON 341, ECON 366, ECON 372, ECON 465, ECON 470, ECON 471; FIN 300, FIN 360, FIN 460

Management and Information Systems:

CBA 300; HRM 360; MGMT 300; IS 300, IS 301, IS 310; I/ST 319, I/ST 350, I/ST 419

Design and Marketing:

DESN 368, DESN 370; GEOG 319; MKTG 300; BLAW 320; I/ST 333

Asia and Globalization concentration (any four courses below):

ANTH 307; ASAM 335, ASAM 407; A/ST 320, A/ST 336; HIST 412, HIST 440; I/ST 320, I/ST 333, I/ST 355, I/ST 463; JOUR 312; POSC 371, POSC 463; SOC 317, SOC 318, SOC 350, SOC 375, SOC 430

China or Japan concentration (any four courses below):

China: ANTH 332; ASAM 331; CHIN 370, CHIN 390, CHIN 421; GEOG 315; HIST 382A, HIST 382B, HIST 388, HIST 406A, HIST 412; POSC 362; R/ST 341

Japan: ANTH 335; ASAM 330; JAPN 350; CWL 403; GEOG 315; HIST 383A, HIST 383B, HIST 384, HIST 406A, HIST 407; R/ST 341, R/ST 344

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## **CHANGING INFORMATION**

New Catalog Text:

Asia and Business concentration (any four courses below):

Economics and Finance:

A/ST 490, A/ST 499; ECON 300, ECON 310, ECON 311, ECON 341, ECON 366, ECON 372, ECON 465, ECON 470, ECON 471; FIN 300, FIN 360, FIN 460

Management and Information Systems:

A/ST 490, A/ST 499; CBA 300; HRM 360; MGMT 300; IS 300, IS 301, IS 310; I/ST 319, I/ST 350, I/ST 419

Design and Marketing:

A/ST 490, A/ST 499; DESN 368, DESN 370; GEOG 319; MKTG 300; BLAW 320; I/ST 333

Asia and Globalization concentration (any four courses below):

ANTH 307; ASAM 335, ASAM 407; A/ST 320, A/ST 336, A/ST 490, A/ST 499;

HIST 412, HIST 440; I/ST 320, I/ST 333, I/ST 355, I/ST 463; JOUR 312; POSC 371, POSC 463; SOC 317, SOC 318, SOC 350, SOC 375, SOC 430  
 China or Japan concentration (any four courses below):  
 China: ANTH 332; ASAM 331; A/ST 490, A/ST 495, A/ST 499; CHIN 370, CHIN 380, CHIN 390, CHIN 421, CHIN 451, CHIN 462; GEOG 315; HIST 382A, HIST 382B, HIST 388, HIST 406A, HIST 412; POSC 362; R/ST 341  
 Japan: ANTH 335; ASAM 330; A/ST 490, A/ST 499; JAPN 311, JAPN 312, JAPN 350; CWL 403; GEOG 315; HIST 383A, HIST 383B, HIST 384, HIST 406A, HIST 407; R/ST 341, R/ST 344

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#### List changes:

ADD A/ST 490; A/ST 499 to Asia and Business concentration UNDER Economics and Finance  
 ADD A/ST 490; A/ST 499 to Asia and Business concentration UNDER Management and Information Systems  
 ADD A/ST 490; A/ST 499 to Asia and Business concentration UNDER Design and Marketing  
 ADD A/ST 490; A/ST 499 to Asia and Globalization Concentration

ADD A/ST 490; A/ST 495; A/ST 499; CHIN 380; CHIN 451; CHIN 462 to China or Japan concentration UNDER China

ADD A/ST 490; A/ST 499; JAPN 311, JAPN 312 to China or Japan concentration UNDER Japan

Roadmaps are required for all undergraduate degree programs with changes to be included in the formal certification. No change.

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### COURSE – CHANGE – LOWER DIVISION

Current Course Information: CHLS 105. Identity and Assimilation in Chicano/Latino Life 3 units at C-2

#### Items Changing

Title: Latina/o Cultural Identity  
 Short Title: Latina/o Cultural Identity

Articulation: Title change. No articulation review necessary.

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### PROGRAM CHANGE Bachelor of Arts Chicano & Latino Studies

#### CURRENT CATALOG TEXT –

Bachelor of Arts in Chicano and Latino Studies (120 units)

#### Special Track

In addition to the general major in Chicano and Latino Studies, the department also offers a program for students who wish to complete a Special Track major in Chicano and Latino Studies. Within the Special Track, students may receive up to a maximum of 12 units of credit for upper division Chicano and Latino Studies related course work taken from other disciplines. Students wishing to pursue the Special Track major must develop an approved program of study in consultation with the Chicano and Latino Studies Department academic advisor.

The Special Track consists of 39 units total, 33 of which must be upper division, including the following:  
 Lower Division (6 units):

Take the following core:

CHLS 105 Identity and Assimilation in Chicano Life (3)

Prerequisite/Corequisite: One course from GE category A2.

Take one of the following:

CHLS 100 Introduction to Chicano & Latino Studies (3)

Prerequisite/Corequisite: One course from GE category A2.

CHLS 101 Introduction to Chicano/a & Latino/a Life (3)

Prerequisite: None

#### Upper Division (33 units)

Take the following core (12 units required):

CHLS 300 Chicano History (3)

Prerequisites: GE Foundation requirements.

CHLS 310 Chicano Thought (3)

Prerequisites: None

CHLS 350 The Latino Population in the U.S. (3)

Prerequisite: GE Foundation requirements.

CHLS 498 Senior Colloquium (3)

Prerequisite: Consent of the instructor.

Special Track (21 units):

A maximum of 12 units of course work from other disciplines, selected with the approval of the Chicano and Latino Studies Department advisor. Students must also complete CHLS Upper Division electives (9 units) from the following:

Cultural Studies:

CHLS 315, CHLS 330, CHLS 341, CHLS 380, CHLS 390, CHLS 395, CHLS 420, CHLS 450, CHLS 450A, CHLS 490, CHLS 499

Social Inquiry:

CHLS 319, CHLS 320, CHLS 335, CHLS 340, CHLS 352, CHLS 362, CHLS 400, CHLS 415, CHLS 421, CHLS 430, CHLS 470, CHLS 490, CHLS 499

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## **CHANGING INFORMATION**

New Catalog Text:

Special Track

In addition to the general major in Chicano and Latino Studies, the department also offers a program for students who wish to complete a Special Track major in Chicano and Latino Studies. Within the Special Track, students may receive up to a maximum of 6 units of credit for upper division Chicano and Latino Studies related course work taken from other disciplines. Students wishing to pursue the Special Track major must develop an approved program of study in consultation with the Chicano and Latino Studies Department academic advisor.

The Special Track consists of 33 units total, 27 of which must be upper division, including the following:

Lower Division (6 units):

Take two of the following:

CHLS 100 Introduction to Chicano & Latino Studies (3)

Prerequisite/Corequisite: One course from GE category A2.

CHLS 101 Introduction to Chicano/a & Latino/a Life (3)

CHLS 105 Identity and Assimilation in Chicano Life (3)

Prerequisite/Corequisite: One course from GE category A2.

CHLS 150 Introduction to Chicano Literary Studies (3)

Prerequisite/corequisite: One course from GE category A1

Upper Division (27 units)

Take the following core (12 units required):

CHLS 300 Chicano History (3)

Prerequisites: GE Foundation requirements.

CHLS 310 Chicano Thought (3)

Prerequisites: None

CHLS 350 The Latino Population in the U.S. (3)

Prerequisite: GE Foundation requirements.

CHLS 498 Senior Colloquium (3)

Prerequisite: Consent of the instructor.

Special Track (15 units):

A maximum of 6 units of course work from other disciplines, selected with the approval of the Chicano and Latino Studies Department advisor. Students must also complete CHLS Upper Division electives (9 units) from the following:

Cultural Studies:

CHLS 315, CHLS 330, CHLS 341, CHLS 370, CHLS 380, CHLS 390, CHLS 395, CHLS 420, CHLS 450, CHLS 450A, CHLS 490, CHLS 499

Social Inquiry:

CHLS 319, CHLS 320, CHLS 335, CHLS 340, CHLS 352, CHLS 362, CHLS 400, CHLS 415, CHLS 421, CHLS 430, CHLS 470, CHLS 490, CHLS 499

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List changes:

Reduction of units for Special Track B.A. in CHLS from 39 to 33. By reducing upper division elective units from 21 to 15 units

Changed lower division to include CHLS 150

Change Lower division units to be fulfilled via 2 of the following CHLS 100, CHLS 101, CHLS 105 or CHLS 150

Changed Special track elective units from non-CHLS courses from 12 units to 6 units  
Add: CHLS 370 to Cultural Studies Track

Revised Roadmap Attached

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**PROGRAM CHANGE** Chicano & Latino Studies

**CURRENT CATALOG TEXT –**

Bachelor of Arts in Chicano and Latino Studies (120 units)

**Requirements**

Lower Division (6 units):

Take the following:

CHLS 105 Identity and Assimilation in Chicano Life (3)

Prerequisite/Corequisite: One course from GE category A2.

Take one of the following:

CHLS 100 Introduction to Chicano & Latino Studies (3)

Prerequisite/Corequisite: One course from GE category A2.

CHLS 101 Introduction to Chicano/a & Latino/a Life (3)

Prerequisite: None

Upper Division (33 units)

Take the following core:

CHLS 300 Chicano History (3)

Prerequisites: GE Foundation requirements.

CHLS 310 Chicano Thought (3)

Prerequisites: None

CHLS 350 The Latino Population in the U.S. (3)

Prerequisite: GE Foundation requirements.

CHLS 498 Senior Colloquium (3)

Prerequisite: Consent of the instructor.

Take 21 units of electives from the following:

Cultural Studies:

CHLS 315, CHLS 330, CHLS 341, CHLS 380, CHLS 390, CHLS 420, CHLS 450, CHLS 450A, CHLS 490,  
CHLS 499

Social Inquiry:

CHLS 319, CHLS 320, CHLS 335, CHLS 340, CHLS 352, CHLS 362, CHLS 400, CHLS 415, CHLS 421,  
CHLS 430, CHLS 470, CHLS 490, CHLS 499

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**CHANGING INFORMATION**

New Catalog Text:

Requirements:

A minimum of 33 units is required for the major in Chicano and Latino Studies; 6 lower division and 27 upper-division units.

Lower Division (6 units):

Take two of the following:

CHLS 100 Introduction to Chicano & Latino Studies (3)

Prerequisite/Corequisite: One course from GE category A2.

CHLS 101 Introduction to Chicano/a & Latino/a Life (3)

CHLS 105 Identity and Assimilation in Chicano Life (3)

Prerequisite/Corequisite: One course from GE category A2.

CHLS 150 Introduction to Chicano Literary Studies (3)

Prerequisite/Corequisite: One course from GE category A1

Upper Division (27 units)

Take the following core:

CHLS 300 Chicano History (3)

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7170

Prerequisites: GE Foundation requirements.

CHLS 310 Chicano Thought (3)

Prerequisites: None

CHLS 350 The Latino Population in the U.S. (3)

Prerequisite: GE Foundation requirements.

CHLS 498 Senior Colloquium (3)

Prerequisite: Consent of the instructor.

Take 15 units of electives from the following:

Cultural Studies:

CHLS 315, CHLS 330, CHLS 341, CHLS 370, CHLS 380, CHLS 390, CHLS 420, CHLS 450, CHLS 450A, CHLS 490, CHLS 499

Social Inquiry:

CHLS 319, CHLS 320, CHLS 335, CHLS 340, CHLS 352, CHLS 362, CHLS 400, CHLS 415, CHLS 421, CHLS 430, CHLS 470, CHLS 490, CHLS 499

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List changes:

Reduction of units for B.A. in CHLS from 39 to 33. By reducing upper division elective units from 21 to 15 units

Changed lower division to include CHLS 150

Change Lower division units to be fulfilled via 2 of the following CHCLS 100, CHCLS 101, CHCLS 105 or CHCLS 150

Add: CHLS 370 to Cultural Studies Track

Revised Roadmap Attached

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**PROGRAM CHANGE** Bachelor of Arts in Liberal Arts (120 units)

#### **CURRENT CATALOG TEXT –**

This program is offered only through College of Continuing and Professional Education at a higher tuition rate.

The B.A. in Liberal Arts is a degree completion program designed to provide working adults who have accrued some college credits with an alternative delivery format that is more conducive to their personal and professional lives, providing a stronger possibility of graduation. The program is designed in a cohort format which provides students opportunities for networking as well as an environment where students' shared interests, knowledge, and skills enhance the learning experience for all. The degree will be in the Liberal Arts, an area that is general enough to support a wide variety of transferable units as well as support students with wide-ranging career interests.

This program is designed for the convenience and ease of access for the working adult. The majority of the classes will be taught face-to-face on the CSULB campus on Wednesdays and Saturdays. The basic core of courses will occasionally be coupled with a class being offered partially or entirely online. The online courses will be drawn exclusively from the list of those courses previously approved through the normal University curriculum review process.

#### **Admission Requirements**

- Current transfer requirements for non-impacted majors (Minimum GPA of 2.0 in all transferable units attempted and good standing at last college attended.
- Complete with a "C" or better by the end of the prior Spring term for Fall admission or by the end of the prior Summer term for Spring admission the CSU GE requirements in Written Communication, Oral Communication, Critical Thinking, and Mathematics/Quantitative Reasoning.
- Complete a minimum of 30 semester units, or 45 quarter units, of C or better in courses approved to meet CSU General Education requirements, or be GE Certified for all Lower Division General Education requirements of the University
- Minimum of 78 units and at least 8 units from a four-year school.
- Essay of at least 1000 words on why the student wants to major in the Liberal Arts and what the student hopes to achieve by completing the degree. The essay should explicitly address what the student hopes to achieve in terms of the goals for student learning outcomes of the curriculum (as detailed in #3, below). This essay is the first element of the assessment plan for the degree program, and each essay will be reviewed by members of the Advisory Board and the Program Director.

#### **Program Requirements**

1. A minimum of 42 upper-division units, with at least three courses (9 units) in each of the Three Areas below.
2. Three units in CLA 499: Directed Studies: Professional Portfolio. (May be repeated for a maximum of 6 units.)
3. Remaining units (12) selected from any of the three areas below.

#### **Area I: Oral and Written Communication**

- COMM 334 Business & Professional Communication (3)

- COMM 411 Communication in Conflict Resolution (3)
  - COMM 439 Communication and Popular Culture (3)
  - ENGL 300 Advanced Composition (3)
  - ENGL 317 Technical Communication (3)
- Area II: Global Citizenship and Cross-Disciplinary Knowledge
- ANTH 307 Modernization in Global Perspective (3)
  - ANTH 475 / LING 470 /WGSS 475 Language and Gender in Cross-Cultural Perspective
  - ANTH 412 Culture and Communication (3)
  - CHLS 335 Asian and Latino Immigration Since WWII (3)
  - CHLS 350 Latino Populations in the U.S. (3)
  - CWL 320 Comic Spirit (3)
  - CWL 350 Global Literature in American Culture (3)
  - CWL 415 Ethnic Literature and Culture in America (3)
  - ECON 300 Fundamentals of Economics (3)
  - ECON 341 Global Labor Issues (3)
  - GEOG/IST 319 International Development (3)
  - GEOG 470 Political Geography (3)
  - POSC 321 The Media and American Politics (3)
  - POSC 326 California Government in Comparative Perspective (3)
  - POSC 371 Introduction to International Politics (3)
  - PSY 384 Workplace Diversity: Barriers and Strategies (3)
  - PSY 381 Introduction to Industrial-Organizational Psychology (3)
  - R/ST 362 Religion and Psychology (3)
  - R/ST 391 Religion and Science (3)
  - WGSS 401 Bodies and Borders: Feminism and Globalization (3)
- Area III: Cultures, Values and Beliefs
- ANTH 353 Health and Healing (3)
  - ANTH 422 The Anthropology of Gender (3)
  - AIS 308 California Indian History (3)
  - ASAM/CHLS 341 Asian American/Chicano and Latino Cinema (3)
  - CHLS 420 Chicano Heritage in the Arts of Mexico and the Southwest (3)
  - CHLS 390: The Hispanic Southwest: Historical and Literary Images (3)
  - ECON 340 Economics in Movies (3)
  - PHIL 352 Philosophy of Law (3)
  - PHIL 381 Philosophy of Science (3)
  - R/ST 302 American Religious Diversity (3)
  - R/ST 308 Comparative Religious Ethics (3)
  - R/ST 331 Islamic Religion and Culture (3)
  - SOC 346 Race, Gender and Class (3)
  - WGSS 318 US Women of Color (3)
- .....

## CHANGING INFORMATION

New Catalog Text:

### Admission Requirements

- Current transfer requirements for non-impacted majors (Minimum GPA of 2.0 in all transferable units attempted and good standing at last college attended.
- Complete with a "C" or better by the end of the prior Spring term for Fall admission or by the end of the prior Summer term for Spring admission the CSU GE requirements in Written Communication, Oral Communication, Critical Thinking, and Mathematics/Quantitative Reasoning.
- Complete a minimum of 30 semester units, or 45 quarter units, of C or better in courses approved to meet CSU General Education requirements, or be GE Certified for all Lower Division General Education requirements of the University
- Minimum of 72 units and at least 2 units from a four-year school.
- Essay of at least 1000 words on why the student wants to major in the Liberal Arts and what the student hopes to achieve by completing the degree. The essay should explicitly address what the student hopes to achieve in terms of the goals for student learning outcomes of the curriculum (as detailed in #3, below). This essay is the first element of the assessment plan for the degree program, and each essay will be reviewed by members of the Advisory Board and the Program Director.

### Program Requirements

1. A minimum of 48 upper-division units, with at least four courses (12 units) in each of the Three Areas below.
2. Three units in CLA 499: Directed Studies: Professional Portfolio. (May be repeated for a maximum of 6 units.)
3. Remaining units (9) selected from any of the three areas below.

Area I: Oral and Written Communication

1. COMM 334 Business & Professional Communication (3)
2. COMM 335 Persuasive Speaking (3)
3. COMM 411 Communication in Conflict Resolution (3)
4. COMM 439 Communication and Popular Culture (3)
5. ENGL 300 Advanced Composition (3)
6. ENGL 317 Technical Communication (3)

Area II: Global Citizenship and Cross-Disciplinary Knowledge

- ANTH 307 Modernization in Global Perspective (3)
- ANTH 475 / LING 470 /WGSS 475 Language and Gender in Cross-Cultural Perspective
- ANTH 412 Culture and Communication (3)
- CHLS 335 Asian and Latino Immigration Since WWII (3)
- CHLS 350 Latino Populations in the U.S. (3)
- CWL 320 Comic Spirit (3)
- CWL 350 Global Literature in American Culture (3)
- CWL 415 Ethnic Literature and Culture in America (3)
- ECON 300 Fundamentals of Economics (3)
- ECON 341 Global Labor Issues (3)
- GEOG/IST 319 International Development (3)
- GEOG 470 Political Geography (3)
- POSC 321 The Media and American Politics (3)
- POSC 326 California Government in Comparative Perspective (3)
- POSC 371 Introduction to International Politics (3)
- PSY 384 Workplace Diversity: Barriers and Strategies (3)
- PSY 381 Introduction to Industrial-Organizational Psychology (3)
- R/ST 362 Religion and Psychology (3)
- R/ST 391 Religion and Science (3)
- WGSS 401 Bodies and Borders: Feminism and Globalization (3)

Area III: Cultures, Values and Beliefs

- ANTH 353 Health and Healing (3)
- ANTH 422 The Anthropology of Gender (3)
- AIS 308 California Indian History (3)
- ASAM/CHLS 341 Asian American/Chicano and Latino Cinema (3)
- CHLS 420 Chicano Heritage in the Arts of Mexico and the Southwest (3)
- CHLS 390: The Hispanic Southwest: Historical and Literary Images (3)
- ECON 340 Economics in Movies (3)
- PHIL 352 Philosophy of Law (3)
- PHIL 381 Philosophy of Science (3)
- R/ST 302 American Religious Diversity (3)
- R/ST 308 Comparative Religious Ethics (3)
- R/ST 331 Islamic Religion and Culture (3)
- SOC 346 Race, Gender and Class (3)
- WGSS 318 US Women of Color (3)

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List changes:

- 1) Change the number of required admission units to 72 units and at least 2 units from a four-year school.
- 2) Change the number of required program units to 48 units; increase the number of courses in the three areas to 12 units.
- 3) Decrease the required remaining units to 9 units.
- 4) Under Area I: Add COMM 335.

No Roadmap change

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**PROGRAM CHANGE** Bachelor of Arts in Communication Studies (120 units)

**CURRENT CATALOG TEXT –**

3. Elective Courses: (21 units, 9 units must be 400-level) selected from the following:

COMM 309, COMM 331, COMM 333, COMM 334, COMM 335, COMM 337, COMM 338, COMM 344, COMM 352, COMM 355, COMM 358, COMM 400, COMM 410, COMM 411, COMM 412, COMM 414, COMM 415, COMM 420, COMM 421, COMM 422, COMM 430, COMM 432, COMM 433, COMM 434, COMM 436, COMM 437, COMM 439, COMM 441, COMM 442, COMM 444, COMM 449, COMM 450,

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**CHANGING INFORMATION**

New Catalog Text:

3. Elective Courses: (21 units, 9 units must be 400-level) selected from the following:

COMM 309, COMM 331, COMM 333, COMM 334, COMM 335, COMM 337, COMM 338, COMM 344, COMM 352, COMM 355, COMM 358, COMM 400, COMM 410, COMM 411, COMM 412, COMM 414, COMM 415, COMM 420, COMM 421, COMM 422, COMM 430, COMM 431, COMM 432, COMM 433, COMM 434, COMM 436, COMM 437, COMM 439, COMM 441, COMM 442, COMM 444, COMM 449, COMM 450, COMM 452, COMM 490

List changes:

- 1) Add COMM 431 to curriculum

No Revised Roadmap Necessary

**PROGRAM CHANGE** Bachelor of Arts in Communication Studies, Option in Interpersonal and Organizational Communication (120 units)

**CURRENT CATALOG TEXT**

3. Elective Courses: An additional 18 units of course work (of which at least 9 units must be in 400-level courses) are required for the major. 15 units chosen from:

COMM 309, COMM 334, COMM 335, COMM 337, COMM 344, COMM 355, COMM 400, COMM 410, COMM 411, COMM 412, COMM 414, COMM 420, COMM 421, COMM 432, COMM 444, COMM 449, COMM 450, COMM 452, COMM 490 (consult with a communication studies advisor about which 490 courses are appropriate for this degree option).

**CHANGING INFORMATION**

New Catalog Text:

3. Elective Courses: An additional 18 units of course work (of which at least 9 units must be in 400-level courses) are required for the major.

COMM 309, COMM 334, COMM 335, COMM 337, COMM 344, COMM 355, COMM 400, COMM 410, COMM 411, COMM 412, COMM 414, COMM 420, COMM 421, COMM 431, COMM 432, COMM 444, COMM 449, COMM 450, COMM 452, COMM 490 (consult with a communication studies advisor about which 490 courses are appropriate for this degree option).

List changes:

- 2) Delete '15 units chosen from'
- 3) Add COMM 431

No Revised Roadmap Necessary

**PROGRAM CHANGE** Bachelor of Arts in Economics

**CURRENT CATALOG TEXT –**

The following courses may not be used to satisfy the elective requirement in economics: ECON 300, ECON 306, ECON 333, ECON 341, ECON 366, ECON 495, and ECON 499.

**CHANGING INFORMATION**

New Catalog Text:

The following courses may not be used to satisfy the elective requirement in economics: ECON 300, ECON 306 and ECON 499.

List changes:

ECON 333, ECON 341, ECON 366 and ECON 495 have been deleted from the current text, allowed as electives.

No Revised Roadmap Necessary

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**PROGRAM – CHANGE** Option in Mathematical Economics and Economic Theory

**CURRENT CATALOG TEXT**

Elective Courses: At least four additional upper-division courses in economics of which at least one economics course must be taken at the 400 level. Students may take one course from the following in meeting the elective requirement: MATH 364A, MATH 485; STAT 410 or STAT 450; these will not substitute for the 400-level economics requirement. ECON 300, ECON 306, ECON 341, ECON 366, ECON 380, ECON 495 and ECON 499 may not be taken to meet the elective requirement.

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**CHANGING INFORMATION**

New Catalog Text:

Elective Courses:  
At least four additional upper-division courses in economics of which at least one economics course must be taken at the 400 level. Students may take one course from the following in meeting the elective requirement: MATH 364A, MATH 485; STAT 410 or STAT 450; these will not substitute for the 400-level economics requirement. ECON 300, ECON 306, ECON 380 and ECON 499 may not be taken to meet the elective requirement.

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List changes:

ECON 341, ECON 366 and ECON 495 have been deleted from the current text, allowed as electives.

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Arts in Business Economics

**CURRENT CATALOG TEXT –**

Group A. Analytical Economics  
*Take at least two courses from the following:*  
ECON 355, ECON 430, ECON 434, ECON 438, ECON 450, ECON 462, ECON 464, ECON 470.  
The following courses may not be used to satisfy the elective requirement in economics: ECON 300, ECON 306, ECON 333, ECON 341, ECON 366, ECON 495, and ECON 499.

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**CHANGING INFORMATION**

New Catalog Text:

Group A. Analytical Economics  
*Take at least two courses from the following:*  
ECON 341, ECON 355, ECON 366, ECON 430, ECON 434, ECON 438, ECON 450, ECON 462, ECON 464, ECON 470.  
The following courses may not be used to satisfy the elective requirement in economics: ECON 300, ECON 306 and ECON 499.

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List changes:

ECON 341, ECON 366 have been added to the courses above for Group A.

ECON 333, ECON 341, ECON 366 and ECON 495 have been deleted from the current text, allowed as electives.

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Arts in English - Option in English Education

**CURRENT CATALOG TEXT –**

The Option in English Education is designed for prospective secondary English teachers and satisfies the state-mandated requirement in subject matter competence for the Single Subject Teaching Credential. This 52-unit option combines a 40-unit core with a specified emphasis in one of nine areas. All nine areas of emphasis require that students complete the 40-unit core requirements specified here and take the additional 12 units of breadth and perspective as indicated below. In order to achieve subject matter competency, English Education majors must earn grades of 'C' or better in all of their content area coursework. English Education emphases should not be confused with BA options or majors in English or other departments, which have significantly different requirements.

#### Core Requirements

Take all of the following:

ENGL 310 Applied Composition (4)

Prerequisite: ENGL 101 or ENGL 317 or a baccalaureate degree.

ENGL 320 English Grammar (4)

Prerequisite: None

ENGL 363 Shakespeare I (4)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

ENGL 375 U.S. Ethnic Writers (3)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

ENGL 380 Approaches to English Studies (4)

Prerequisite: ENGL 180 or equivalent.

ENGL 410 Theories of Writing and Literacy (3)

Prerequisite: ENGL 309 or ENGL 310 or consent of instructor.

ENGL 482 Literature for Adolescents (4)

Prerequisite: One college course in literature.

LING 339 Linguistics for Crosscultural Academic Development in Secondary School Settings (3)

Prerequisites: None

Take one of the following:

ENGL 250A Survey of English Literature (4)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

ENGL 250B Survey of English Literature (4)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

Take one of the following:

ENGL 270A Survey of American Literature (4)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

ENGL 270B Survey of American Literature (4)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

Take one of the following:

CWL 100, CWL 124, CWL 132, CWL 320, CWL 346, CWL 404, CWL 452/ CWL 552, CLSC 101

General Education courses that meet California Commission for Teacher Credentialing Recommendations are:

Take three units from the following:

THEA 113, THEA 122, THEA 324

Take three units from the following:

COMM 130, COMM 335

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#### CHANGING INFORMATION

New Catalog Text:

The Option in English Education is designed for prospective secondary English teachers and satisfies the state-mandated requirement in subject matter competence for the Single Subject Teaching Credential. This 55-unit option combines a 43-unit core with a specified emphasis in one of nine areas. All nine areas of emphasis require that students complete the 43-unit core requirements specified here and take the additional 12 units of breadth and perspective as indicated below. In order to achieve subject matter competency, English Education majors must earn grades of 'C' or better in all of their content area coursework. English Education emphases should not be confused with BA options or majors in English or other departments, which have significantly different requirements.

Core Requirements

Take all of the following:

ENGL 180 Appreciation of Literature (3)

Prerequisite/Corequisite: One GE Foundation course.

ENGL 310 Applied Composition (4)

Prerequisite: ENGL 101 or ENGL 317 or a baccalaureate degree.

ENGL 320 English Grammar (4)

Prerequisite: None

ENGL 363 Shakespeare I (4)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

ENGL 375 U.S. Ethnic Writers (3)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

ENGL 380 Approaches to English Studies (4)

Prerequisite: ENGL 180 or equivalent.

ENGL 410 Theories of Writing and Literacy (3)

Prerequisite: ENGL 309 or ENGL 310 or consent of instructor.

ENGL 482 Literature for Adolescents (4)

Prerequisite: One college course in literature.

LING 339 Linguistics for Crosscultural Academic Development in Secondary School Settings (3)

Prerequisites: None

Take one of the following:

ENGL 250A Survey of English Literature (4)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

ENGL 250B Survey of English Literature (4)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

Take one of the following:

ENGL 270A Survey of American Literature (4)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

ENGL 270B Survey of American Literature (4)

Prerequisites: ENGL 100 or GE Composition (Area A1); GE Foundation requirements.

Take one of the following:

CWL 100, CWL 124, CWL 132, CWL 320, CWL 346, CWL 404, CWL 452/ CWL 552, CLSC 101

General Education courses that meet California Commission for Teacher Credentialing Recommendations are:

Take three units from the following:

THEA 113, THEA 122, THEA 324

Take three units from the following:

List changes:

Addition of course to core requirements: ENGL 180. This changes the core requirements to 43 units and the requirements for the entire major to 55 units. The rest of this option (beyond the core courses) stays the same.

No Roadmap change

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**PROGRAM CHANGE** Bachelor of Arts in Environmental Science and Policy

**CURRENT CATALOG TEXT**

Lower Division:

Take all of the following course:

- BIOL 260 Biostatistics (3)

\*\*"C" or better required.

Prerequisites: BIOL 211 or BIOL 207 or MICR 200; MATH 111 or MATH 113 or MATH 119A or MATH 122 all with a grade of "C" or better.

- ECON 100 Principles of Macroeconomics (3)

\*\*"C" or better required.

Prerequisites: MATH 103 or higher and one GE Foundation course.

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- \*Take one of the following courses:

- BIOL 100 or GEOG 140

Or

- Any Introductory Environmental Science or Studies course

Upper Division

Take all of the following courses:

- BIOL 350 General Ecology (3)

Prerequisites: BIOL 211, BIOL 212, BIOL 213, BIOL 260; MATH 119A or MATH 122 all with a grade of "C" or better. Chemistry and physics recommended.

- ECON 310 Microeconomic Theory (3)

Prerequisites: ECON 100, ECON 101, and either MATH 115 or MATH 122, with grades of "C" or better in all prerequisite courses.

- ES P 300 Environmental Law and Policy (3)

Prerequisites: ESP 200 and upper division standing; or consent of instructor.

- ES P 400 Environmental Science and Policy Capstone Project (3)

Prerequisites: BIOL 350; ECON 462 or ECON 463 or ECON 464 or CE 406; ESP 200, ESP 300; GEOG 481; GEOL 300; or consent of instructor.

- GEOL 300 Earth Systems and Global Change (3)

Prerequisites: GE Foundation requirement, upper division standing, and CHEM 100 or CHEM 111A or GEOL 102 or GEOL 106 with a grade of "C" or better.

Take one of the following courses:

- GEOG 473 Remote Sensing (4)

Prerequisites: GEOG 200 (or equivalent) and GEOG 280 or consent of instructor.

or

- GEOG 481 Geographic Information Science for Natural Sciences (4)

Prerequisites: Junior/Senior/Graduate standing; GEOG 140 or BIOL 153 or GEOL 102.

Take one course selected from the following:

- POSC 328, POSC 329, POSC 431, POSC 432

Take one course selected from the following:

- ECON 462, ECON 463, ECON 464

Take one course selected from the following:

- GEOG 442, GEOG 447, GEOG 455, GEOG 458

Take one course selected from the following:

- HIST 464, HIST 482; ENGL 444; ASAM 350; WGSS 424

Take one course selected from the following:

- ANTH 450; BIOL 457, BIOL 459, ENGL 444; ESP 495; GEOG 443, GEOG 448, GEOG 486, GEOG 492; HIST 482; NSCI 492

Additional 6 units of course work selected from courses approved as options satisfying upper division requirements above or from the following approved list of additional courses; all must be upper division or approved by the advisor.

Additional Approved Courses:

- ANTH 401; BIOL 450, BIOL 456; ECON 355, ECON 403, ECON 410, ECON 434, ECON 485, ECON 486; ENGR 302; ESP 490, ESP 491, ESP 499; GEOG 340, GEOG 355, GEOG 400, GEOG 440, GEOG 441, GEOG 443, GEOG 444, GEOG 445, GEOG 452, GEOG 460, GEOG 471, GEOG 474, GEOG

475, GEOG 482, GEOG 487A, GEOG 488; GEOL 303, GEOL 339, GEOL 410; SOC 350, SOC 355, SOC 410.

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## CHANGING INFORMATION

New Catalog Text:

Lower Division:

Take all of the following course:

- ECON 100 Principles of Macroeconomics (3)

\*"C" or better required.

Prerequisites: MATH 103 or higher and one GE Foundation course.

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- Take one of the following courses:

- GEOG 200 (3)

Or

- STAT 108. Statistics for Everyday Life (3)

Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11 or MAPB 12.

- Take one of the following courses:

- GEOG 101 or GEOG 140

Or

- Any Introductory Environmental Science or Studies course

Upper Division

Take all of the following courses:

- ESP 330 California Ecosystems (3)

Prerequisites: GEOG 101 or GEOG 130 or GEOG 140 or ES&P 200 AND GEOG 200 or STAT 108 or BIOL 260.

- ES P 300 Environmental Law and Policy (3)

Prerequisites: ESP 200 and upper division standing; or consent of instructor.

- ES P 400 Environmental Science and Policy Capstone Project (3)

Prerequisites: BIOL 350 or ESP 330; ECON 306 or ECON 462 or ECON 463 or ECON 464 or CE 406; ESP 300; GEOG 481 or GEOG 473; GEOL 300; OR consent of instructor. In addition, students must have scored 11 or higher on the GWAR Placement Examination or completed the necessary portfolio course that is a prerequisite for GWAR.

- GEOL 300 Earth Systems and Global Change (3)

Prerequisites: GE Foundation requirement, upper division standing, and CHEM 100 or CHEM 111A or GEOL 102 or GEOL 106 with a grade of "C" or better.

Take one of the following courses:

- ECON 310

Prerequisites: ECON 100, ECON 101, and either MATH 115 or MATH 122, with grades of "C" or better in all prerequisite courses.

- ECON 317 (3)

Prerequisite: ECON 100, 101 and MATH 115, MATH 119A or B, or MATH 122

Take one of the following courses:

- GEOG 473 Remote Sensing (4)

Prerequisites: GEOG 200 (or equivalent) and GEOG 280 or consent of instructor.

- GEOG 481 Geographic Information Science for Natural Sciences (4)

Prerequisites: Junior/Senior/Graduate standing; GEOG 140 or BIOL 153 or GEOL 102.

Take one course selected from the following:

- POSC 328, POSC 329, POSC 431, POSC 432, GEOG 446

Take one course selected from the following:

- ECON 462, ECON 463, ECON 464

Take one course selected from the following:

- GEOG 442, GEOG 447, GEOG 455, GEOG 458

Take one course selected from the following:

- HIST 464, HIST 482; ENGL 444; ASAM 350; WGSS 424

Take one course selected from the following:

- ANTH 450; BIOL 457, BIOL 459, ENGL 444; ESP 392; ESP 495; GEOG 443, GEOG 448, GEOG 486, GEOG 492; HIST 482; NSCI 492

Additional 6 units of course work selected from courses approved as options satisfying upper division requirements above or from the following approved list of additional courses; all must be upper division or approved by the advisor.

Additional Approved Courses:

- AIS 336; ANTH 401; BIOL 450, BIOL 456; ECON 355, ECON 403, ECON 410, ECON 434, ECON

485, ECON 486; ENGR 302; ESP 490, ESP 491, ESP 499; GEOG 340, GEOG 355, GEOG 400, GEOG 440, GEOG 441, GEOG 443, GEOG 444, GEOG 445, GEOG 452, GEOG 460, GEOG 464, GEOG 471, GEOG 473, GEOG 475, GEOG 482, GEOG 487A, GEOG 488; GEOL 303, GEOL 339, GEOL 445; HFHM 370; MKTG 405; SOC 350, SOC 355, SOC 410.

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List changes:

1. Change the Intro requirement to GEOG 101 or GEOG 140 (No BIO 100)
2. Change BIO 260 and BIO 350 to-- GEOG 200 and ESP 330
3. Change 310 ECON requirement to ECON 310 OR ECON 317
4. Change prereq for ESP 400 to read GEOG 473 OR 481, BIO 350 OR ESP 330/GEOG 330
5. Add ESP 392 to the list of courses with field methods and internships
6. Add GEOG 446 to the list of policy options
7. Add AIS 336; GEOG 464, GEOG 473; GEOL 445; HFHM 370; MKTG 405; to the elective list
8. Remove GEOG 474 and GEOL 410 from the elective list (course no longer offered)

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Arts in French and Francophone Studies (120 units)

#### **CURRENT CATALOG TEXT –**

##### **Requirements**

Upper Division (minimum 36 units):

*Take all of the following courses:*

- FREN 312A Advanced French I (3)  
Prerequisite: Upper-division standing in French or equivalent.
- FREN 312B Advanced French II (3)  
Prerequisite: Upper-division standing in French or equivalent.
- FREN 314 Advanced Conversation (3)  
Prerequisite: FREN 214 or consent of instructor.
- FREN 335 Survey of French Literature I (3)  
Prerequisite: Upper-division standing in French.
- FREN 336 Survey of French Literature II (3)  
Prerequisite: Upper-division standing in French.
- FREN 337 Survey of French Literature III: 20th Century French and Francophone Literatures (3)  
Prerequisites: Upper-division standing in French.
- FREN 411 Advanced French Syntax & Composition (3)  
Prerequisites: FREN 312A-B or equivalent.
- FREN 440 French Civilization (3)  
Prerequisites: FREN 312A-B. Corequisite: FREN 335 or FREN 336 or consent of instructor.
- FREN 480 Senior Seminar: Self and Society (3)  
Prerequisites: FREN 335, FREN 336 or FREN 337 and two 400-level French courses, or consent of instructor.

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#### **CHANGING INFORMATION**

New Catalog Text:

##### **Requirements**

Upper Division (minimum 35 units):

*Take all of the following courses:*

- FREN 312A Advanced French I (3)  
Prerequisite: Upper-division standing in French or equivalent.
- FREN 312B Advanced French II (3)  
Prerequisite: Upper-division standing in French or equivalent.
- FREN 314 Advanced Conversation (3)  
Prerequisite: FREN 214 or consent of instructor.
- FREN 333 Survey of French Literature I (4)  
Prerequisite: Upper-division standing in French.
- FREN 334 Survey of French Literature II (4)  
Prerequisite: Upper-division standing in French.
- FREN 411 Advanced French Syntax & Composition (3)  
Prerequisites: FREN 312A-B or equivalent.
- FREN 440 French Civilization (3)  
Prerequisites: FREN 312A-B. Corequisite: FREN 335 or FREN 336 or consent of instructor.

- FREN 480 Senior Seminar: Self and Society (3)  
Prerequisites: FREN 335, FREN 336 or FREN 337 and two 400-level French courses, or consent of instructor.

\*\*\*\*\*

List changes:

- Replace FREN 335, FREN 336 and FREN 337 with FREN 333 and FREN 334
- Change minimum unit requirement from 36 to 35

Revised Roadmap attached

## PROGRAM - CHANGE

Program Name: Bachelor of Arts in French and Francophone Studies (Interdisciplinary Option)

## CURRENT CATALOG TEXT

A minimum of forty-five (45) units of upper-division courses.

*Take all of the following courses (24 units):*

FREN 312A Advanced French I (3)

Prerequisite: Upper-division standing in French or equivalent.

FREN 312B Advanced French II (3)

Prerequisite: Upper-division standing in French or equivalent.

FREN 314 Advanced Conversation (3)

Prerequisite: FREN 214 or consent of instructor.

FREN 335 Survey of French Literature I (3)

Prerequisite: Upper-division standing in French.

FREN 336 Survey of French Literature II (3)

Prerequisite: Upper-division standing in French.

FREN 337 Survey of French Literature III: 20th Century French and Francophone Literatures (3)

Prerequisites: Upper-division standing in French.

FREN 411 Advanced French Syntax & Composition (3)

Prerequisites: FREN 312A-B or equivalent.

FREN 440 French Civilization (3)

Prerequisites: FREN 312A-B. Corequisite: FREN 335 or FREN 336 or consent of instructor.

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## CHANGING INFORMATION *(copy the text from the box above and then make the necessary edits):*

New Catalog Text:

Requirements

A minimum of forty-five (44) units of upper-division courses.

*Take all of the following courses (23 units):*

FREN 312A Advanced French I (3)

Prerequisite: Upper-division standing in French or equivalent.

FREN 312B Advanced French II (3)

Prerequisite: Upper-division standing in French or equivalent.

FREN 314 Advanced Conversation (3)  
Prerequisite: FREN 214 or consent of instructor.

FREN 333 Survey of French Literature I (4)  
Prerequisite: Upper-division standing in French.

FREN 334 Survey of French Literature II (4)  
Prerequisite: Upper-division standing in French.

FREN 411 Advanced French Syntax & Composition (3)  
Prerequisites: FREN 312A-B or equivalent.

FREN 440 French Civilization (3)  
Prerequisites: FREN 312A-B. Corequisite: FREN 335 or FREN 336 or consent of instructor.

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List changes:

- Replace FREN 335, FREN 336 and FREN 337 with FREN 333 and FREN 334
- Change 'A minimum of forty-five (45) units of upper-division courses' from 45 to 44
- Change 'Take all of the following courses' units from 24 to 23

Revised Roadmap Attached

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**COURSE – NEW – LOWER DIVISION**

GEOG 101. The Global Environment (3)

Prerequisites: One Foundation course  
Introduction to the Earth's principal human-environmental relationships and biogeographic processes with a focus on how human actions impact the geography of living things from the local to the global scale.

3 units at C-3

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**PROGRAM – CHANGE** Bachelor of Arts in Geography

**CURRENT CATALOG TEXT –**

Major Concentrations

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Environmental/Physical Geography:

- GEOG 355, GEOG 440, GEOG 441, GEOG 442, GEOG 443, GEOG 444, GEOG 445, GEOG 447, GEOG 448, GEOG 455, GEOG 458, GEOG 481.

Human Geography:

- GEOG 301, GEOG 319, GEOG 352, GEOG 357, GEOG 402, GEOG 446, GEOG 452, GEOG 460, GEOG 462 (also WGSS 462), GEOG 464, GEOG 465, GEOG 467, GEOG 468, GEOG 470, GEOG 471 (also HCA 471).

Geospatial Techniques:

- GEOG 400, GEOG 402, GEOG 473, GEOG 474, GEOG 475, GEOG 482, GEOG 484, GEOG 485, GEOG 486, GEOG 487A, GEOG 487B, GEOG 488.

Global and Regional Studies:

- Global Studies Courses:
  - o GEOG 319, GEOG 352, GEOG 355, GEOG 452, GEOG 460, GEOG 464, GEOG 468, GEOG 470.
- Regional Courses:
  - o GEOG 304, GEOG 306, GEOG 308, GEOG 309, GEOG 313, GEOG 314, GEOG 315, GEOG 316, GEOG 318, GEOG 321

Additional Courses

The following courses may be included in the above concentrations with approval of the Undergraduate Advisor:

- GEOG 492, GEOG 494, GEOG 497.

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List of Courses

General

- 492. Applied Internship

- 494. Selected Topics in Geography
- 497. Directed Studies

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#### Environmental/Physical Geography

- 130. Geography of Weather and Climate
- 140. Introduction to Physical Geography
- 340. Environmental Geography

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### CHANGING INFORMATION

New Catalog Text:

Major Concentrations

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#### Environmental/Physical Geography:

- GEOG 330, GEOG 355, GEOG 440, GEOG 441, GEOG 442, GEOG 443, GEOG 444, GEOG 445, GEOG 447, GEOG 448, GEOG 455, GEOG 458, GEOG 481.

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#### Additional Courses

The following courses may be included in the above concentrations with approval of the Undergraduate Advisor:

- GEOG 392, GEOG 492, GEOG 494, GEOG 497.

#### List of Courses

##### General

- 392. Climate Action and Sustainability at CSULB
- 492. Applied Internship
- 494. Selected Topics in Geography
- 497. Directed Studies

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#### Environmental/Physical Geography

- 101. The Global Environment
- 130. Geography of Weather and Climate
- 140. Introduction to Physical Geography
- 330. California Ecosystems
- 340. Environmental Geography

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#### List changes:

1. Add new course GEOG 330 to list of courses in ENV/PHYS concentration and List of Courses- Environmental/Physical Geography
2. Add new course GEOG 392 to list of courses in Additional Courses concentration and List of Courses- General Courses
3. Add new course GEOG 101 to List of Courses- Environmental/Physical Geography

No Revised Roadmap Necessary.

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### PROGRAM CHANGE Bachelor of Arts in Human Development (120 units)

#### CURRENT CATALOG TEXT –

Bachelor of Arts in Human Development (120 units)

Requirements

Core Courses (24 units):

Take all of the following courses:

- HDEV 250 Elementary Statistics in Social and Behavioral Sciences (4)

Prerequisites: Knowledge of mathematical procedure usually covered in elementary high school algebra, eligibility for GE math.

- HDEV 307 Approaches to Childhood Through Adolescence (3)

Prerequisites: GE Foundation requirements, upper-division standing, ANTH 120 or HDEV 180 or PSY 100 or SOC 100.

- HDEV 320 Research Methods in Human Development (4)

Prerequisite: ANTH 120 or PSY 100 or SOC 100 or HDEV 180 and HDEV 250 or PSY 210 or SOC 250 or BIOL 260.

- HDEV 357 Approaches to Adulthood Through Aging (3)  
Prerequisites: GE Foundation requirements, upper-division standing, ANTH 120 or HDEV 180 or PSY 100 or SOC 100.

- HDEV 360 Cultural Foundations for Human Development (3)  
Prerequisites: HDEV 307 and HDEV 357.  
Prerequisites/Corequisite: HDEV 320.

- HDEV 470 Seminar/Practicum (4)  
Prerequisites: HDEV 250, HDEV 307, HDEV 320, HDEV 357, HDEV 360; and consent of the instructor.

Take one of the following courses:

- HDEV 402 Development of Thought: Structure, Process and Cultural Influences Across the Life Span (3)  
Prerequisite: HDEV 320 and HDEV 360 or consent of instructor.

- HDEV 403 The Acquisition of Culture: Socialization in Cross-cultural Perspective (3)  
Prerequisites: for majors: HDEV 320, HDEV 360; for non-majors: an equivalent upper-level cultural anthropology course and consent of instructor.

Take 12 units from the following, including at least one course from each foundation area:

Biological:

- ANTH 318, 319; BIOL 301; HSC 420, HSC 421, HSC 425; WGSS 440;

Psychological:

- ED P 302, 305; CDFS 311, CDFS 312, CDFS 314, CDFS 411, CDFS 412; GERN 400; HDEV 300, 327; PSY 331, PSY 332, PSY 333, PSY 336, PSY 351, PSY 356, PSY 368, PSY 370, PSY 378, PSY 463;

Sociocultural:

- ANTH 351, ANTH 413, ANTH 419, ANTH 421, ANTH 454, ANTH 475; ASAM 340, ASAM 381; AFRS 410; CHLS 340, CHLS 350, CHLS 415; CDFS 413; CWL 315; GERN 400; HDEV 300, 327, 340; LING 329, 379; SOC 320, SOC 325, SOC 335, SOC 345, SOC 346, SOC 423, SOC 464; WGSS 375, WGSS 401, WGSS 420.

Students must earn a grade of at least "C" in all upper division major courses.

## CHANGING INFORMATION:

New Catalog Text:

Bachelor of Arts in Human Development (120 units)  
Requirements

Core Courses (27 units):

Take all of the following courses:

- HDEV 250 Elementary Statistics in Social and Behavioral Sciences (4)

Prerequisites: Knowledge of mathematical procedure usually covered in elementary high school algebra, eligibility for GE math.

- HDEV 307 Approaches to Childhood (3)  
Prerequisites: GE Foundation requirements, upper-division standing, ANTH 120 or HDEV 180 or PSY 100 or SOC 100 with a "C" or better.

- HDEV 320 Research Methods in Human Development (4)  
Prerequisite: HDEV 250 or PSY 210 or SOC 250 or BIOL 260 with a "C" or better; and HDEV 307 with a "C" or better; and HDEV 357 with a "C" or better.

- HDEV 357 Approaches to Adulthood Through Aging (3)  
Prerequisites: GE Foundation requirements, upper-division standing, ANTH 120 or HDEV 180 or PSY 100 or SOC 100 with a "C" or better.

- HDEV 470 Seminar/Practicum (4)  
Prerequisites: HDEV 320 with a "C" or better, and HDEV 340 or HDEV 360 with a "C" or better; and consent of the department.

Take one of the following courses:

- HDEV 340 Families and Work: Life Course Processes (3)  
Prerequisites: HDEV 307 with a "C" or better and HDEV 357 with a "C" or better.

- HDEV 360 Cultural Foundations for Human Development (3)

Prerequisites: HDEV 307 with a "C" or better and HDEV 357 with a "C" or better.

Take one of the following courses:

- HDEV 402 Development of Thought: Structure, Process and Cultural Influences Across the Life Span (3)

Prerequisite: HDEV 320 with a "C" or better, and 340 or 360 with a "C" or better; or consent of instructor.

- HDEV 403 The Acquisition of Culture: Socialization in Cross-cultural Perspective (3)

Prerequisites: HDEV 320 with a "C" or better, and 340 or 360 with a "C" or better; or consent of instructor.

Take 3 more upper division units in HDEV earning a "C" or better.

Take 3 units from each of the following foundation areas:

Biological:

- ANTH 318, ANTH 319; BIOL 301; HSC 420, HSC 421, HSC 425; WGSS 440;

Psychological:

- EDP 302, EDP 305; CDFS 311, CDFS 312, CDFS 314, CDFS 411, CDFS 412; GERN 400; HDEV 300, 327; PSY 331, PSY 332, PSY 333, PSY 336, PSY 351, PSY 356, PSY 368, PSY 370, PSY 378, PSY 463;

Sociocultural:

- ANTH 351, ANTH 413, ANTH 419, ANTH 421, ANTH 454, ANTH 475; ASAM 340, ASAM 381; AFRS 410; CHLS 340, CHLS 350, CHLS 415; CDFS 413; CWL 315; GERN 400; HDEV 300, HDEV 327, HDEV 340, HDEV 360; LING 329, LING 379; SOC 320, SOC 325, SOC 335, SOC 345, SOC 346, SOC 423, SOC 464; WGSS 375, WGSS 401, WGSS 420.

Students must earn a grade of at least "C" in all upper division major courses.

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List changes:

- Change core units from 24 to 27
- Add "with a "C" or better" to all major pre-req's [See separate course change forms]
- Update/match Course title for HDEV 307 to "Approaches to Childhood" as already changed in catalog
- Add HDEV 307 and HDEV 357 to pre-req's for 320.
- Remove HDEV 360 from the "take all of the following courses" section
- Add "Take HDEV 360 or HDEV 340"
- Remove co-req of HDEV 320 from HDEV 360 [See separate course change forms]
- Add HDEV 340 as pre-req option for HDEV 470, HDEV 402, & HDEV 403 (separate course change forms).
- Change pre-req's for HDEV 403 to be equivalent to HDEV 402 [See separate course change forms]
- Add "Take 3 more upper division HDEV units earning a "C" or better
- Change foundation areas to 3 units from each rather than 12 units spread between all 3
- Add HDEV 360 as a sociocultural foundations option

No Revised Roadmap Necessary

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## **COURSE – NEW – LOWER DIVISION**

HEBW 210. Introduction to Midrash (3)

Short Title: Introduction to Midrash

Prerequisite: Completion of one GE Foundation Course and ENGL 100 or equivalent.

Course Description: An introduction to Rabbinic literature interpreting the Hebrew Bible and its development, with an emphasis on analyzing sources and exploring how the tradition derived meaning from them.

Letter grade or credit/no credit.

3 units at C-2

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## **COURSE – NEW – LOWER DIVISION**

HIST 170. United States History Laboratory (3)

Co-requisite: Eligibility for ENGL 100 or equivalent

Active learning laboratory focusing on United States history and citizenship studies.

3 units at C-3

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**PROGRAM CHANGE** Bachelor of Arts in International Studies (120 units)

1250 BELLFLOWER BOULEVARD . LONG BEACH, CALIFORNIA 90840-2007 . 562/985-7171/1746/8221 . FAX 562/985-

7170

## CURRENT CATALOG TEXT –

### Bachelor of Arts in International Studies (120 units)

The Bachelor of Arts in International Studies is an interdisciplinary degree program that marries a strong liberal arts education with a foundation in transecting international studies theories and a professionally oriented skillset necessary for success in internationally related careers. Students receive direct international experience through classroom-based international interactions and by participating in a foreign study program or an internationally related internship in this country.

International Studies students are curious global citizens who want to make their mark on the world. The major program provides them the tools and guidance to focus their interests and accomplish their goals. It prepares CSULB graduates for high demand jobs in fields like international trade and business, non-profits, international development, international affairs, education, and law.

International Studies uses an outcomes-oriented approach to higher education leading students to develop strong analytical and writing skills while teaching students how to integrate a wide variety of disciplinary methods, language competencies, and cross-cultural understandings into the study of global issues.

All International Studies majors are required to develop a program of study in consultation with the program advisor. Majors should choose their foreign language, foreign study or internship experience, and senior seminar research project to reflect this emphasis.

### Requirements

A minimum of 48 units in a program approved by the International Studies advisor.

### Requirements Not Included in Major

#### Foreign Language:

Three years of college level study or equivalent proficiency demonstrated in a language appropriate to the program of study and geographic area concentration selected.

### Major Requirements

#### Lower Division (15 units):

Complete each of the following courses:

- I/ST 100 Global Citizenship (3)

Prerequisite/Corequisite: one GE A1 course

- I/ST 200 Introduction to International Studies (3)

Prerequisite: GE Foundation requirements.

- I/ST 222 Skills and Methods for Global Leadership (3)

Prerequisite: GE Foundation requirements.

- ECON 100 Principles of Macroeconomics (3)

Prerequisites: MATH 103 or higher and one GE Foundation course.

- ECON 101 Principles of Microeconomics (3)

Prerequisite/Corequisite: MATH 103 or higher.

#### Upper Division: minimum of 33 units

A course can only be counted towards one category in the major. All upper division courses counting towards the major except for I/ST 492 must be taken for a Letter Grade and must be completed with a grade of "C" or better.

### Category 1: Core Courses

Complete three of the following core courses (9 units):

- I/ST 317, I/ST 319, I/ST 320, I/ST 333, I/ST 355, I/ST 463.

### Category 2: Professional Development Area

Complete three courses in any one of the following professional development areas (9 units):

#### (1) International Development:

- ANTH 307; ECON 310, ECON 311, ECON 372, ECON 366, ECON 464, ECON 465, ECON 470, ECON 471; GEOG 319, GEOG 452; HDEV 360; I/ST 319, I/ST 350, I/ST 419; POSC 461.

#### (2) Culture and Identity:

- AFRS 337, AFRS 353; ANTH 419; ASAM 354, ASAM 407; A/ST 320, A/ST 336, A/ST 393; CHIN 451, CHIN 471; COMM 330, COMM 430; CWL 330A-B, CWL 334, CWL 344, CWL 346, CWL 350, CWL 438; ENGL 359, ENGL 459, ENGL 466; FREN 456; GERM 370, GERM 380; HDEV 403; HIST 435, HIST 346, HIST 465; I/ST 320, I/ST 350; JAPN 452, JAPN 453, JAPN 451, JAPN 471; RGR 314, RGR 315, RGR 346, RGR 450; R/ST 308, R/ST 314, R/ST 315, R/ST 317, R/ST 331, R/ST 341, R/ST 344, R/ST 351, R/ST 352, R/ST 353, R/ST 383, R/ST 458, R/ST 460, R/ST 467, RUSS 310, RUSS 428; WGSS 406A, WGSS 410.

#### (3) Citizenship and Migration:

- ANTH 444, CHLS 335, HIST 412, I/ST 320, SOC 358.

(4) Politics, International Relations, and Social Movements:

- AFRS 430; GEOG 470; HIST 345, HIST 478; I/ST 317, I/ST 318, I/ST 350, I/ST 478; JOUR 312; PHIL 351; POSC 353, POSC 362, POSC 367, POSC 371, POSC 376, POSC 450, POSC 455; SOC 317, SOC 318, SOC 449; WGSS 401, WGSS 402, WGSS 424, WGSS 425, WGSS 449.

(5) International Environmental and Natural Resource Issues:

- ECON 464; ENGR 302; GEOG 340, GEOG 355, GEOG 440; HIST 464; I/ST 355.

Category 3: Geographic Area Concentration

Complete three courses in any one of the following geographic areas (9 units):

Europe Area Concentration:

- CHLS 450; CWL 330A-B, CWL 344, CWL 438; ENGL 359, ENGL 459, ENGL 466; FREN 440, FREN 456; GEOG 316; GERM 370, GERM 380; HIST 304, HIST 332, HIST 333, HIST 334, HIST 337, HIST 338, HIST 339, HIST 340, HIST 343, HIST 346, HIST 357, HIST 435, HIST 437; PHIL 414; RGR 314, RGR 315, RGR 346; RUSS 310, RUSS 428; SPAN 428, SPAN 446, SPAN 449, SPAN 430.

South Asia Area Concentration:

- A/ST 306, A/ST 307; GEOG 314; HIST 385; PHIL 307.

East Asia Area Concentration:

- ANTH 332, ANTH 335; A/ST 306, A/ST 307, A/ST 393, A/ST 495; CHIN 382B, CHIN 451; CWL 334; ENGL 359, GEOG 313, GEOG 315; HIST 382A-B, HIST 383A-B, HIST 384, HIST 386, HIST 388, HIST 406A, HIST 407, HIST 412; JAPN 451, JAPN 452; PHIL 306; POSC 362.

Latin America and the Caribbean Area Concentration:

- ANTH 324, ANTH 432; CHLS 430, CHLS 450, CHLS 450A; GEOG 321; HIST 362, HIST 364, HIST 365, HIST 366, HIST 460, HIST 462, HIST 463, HIST 464, HIST 465; POSC 358, POSC 481; SPAN 445, SPAN 450, SPAN 455, SPAN 460.

Middle East/North Africa Area Concentration:

- GEOG 309; HIST 393, HIST 394, HIST 417, HIST 428, HIST 431, HIST 432; POSC 367.

North America Area Concentration:

- ANTH 432; CHLS 300, CHLS 352; CWL 350; GEOG 306, GEOG 321; HIST 435, HIST 462; I/ST 478.

Oceania Area Concentration:

- Due to lack of available courses this concentration can only be chosen if the student is completing a relevant study abroad.

Russia and Central Asia Area Concentration:

- GEOG 318; HIST 341A-B, HIST 416, HIST 418, HIST 440; RUSS 310, RUSS 428.

Africa Area Concentration:

- AFRS 337, AFRS 343A, AFRS 353, AFRS 363, AFRS 430; GEOG 308; HIST 391, HIST 392, HIST 491.

Internship or Foreign Study:

- I/ST 492 International Studies Internship/Foreign Study (3)

An internship or foreign study program related to the course of study selected, as approved by the Study Abroad and Internship Advisor.

Prerequisites: Consent of I/ST advisor; completion of a minimum of 15 upper division units required for the major in

International Studies.

- I/ST 490 Senior Research Seminar in International Studies (3)

Prerequisites: Senior standing or consent of the International Studies advisor and instructor.

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**CHANGING INFORMATION**

New Catalog Text:

Bachelor of Arts in International Studies (120 units)

The Bachelor of Arts in International Studies is an interdisciplinary degree program that marries a strong liberal arts education with a foundation in transecting international studies theories and a professionally oriented skillset necessary for success in internationally related careers. Students receive direct

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7170

international experience through classroom-based international interactions and by participating in a foreign study program or an internationally related internship in this country.

International Studies students are curious global citizens who want to make their mark on the world. The major program provides them the tools and guidance to focus their interests and accomplish their goals. It prepares CSULB graduates for high demand jobs in fields like international trade and business, non-profits, international development, international affairs, education, and law.

International Studies uses an outcomes-oriented approach to higher education leading students to develop strong analytical and writing skills while teaching students how to integrate a wide variety of disciplinary methods, language competencies, and cross-cultural understandings into the study of global issues. All International Studies majors are required to develop a program of study in consultation with the program advisor. Majors should choose their foreign language, foreign study or internship experience, and senior seminar research project to reflect this emphasis.

#### The Dual Major Track:

Students pursuing the Bachelor of Arts in International Studies can choose to instead enroll in the Dual Major Track. The Dual Major Track synthesizes the goals and outcomes of the International Studies major with the goals and outcomes of a second major. It differs from the standard International Studies major in that it allows students to replace the eighteen units of professional and regional development in the major with professional and regional development from the student's second major. The student develops an interdisciplinary, international, intercultural knowledge base and skills, critical thinking skills, analytical reasoning skills, writing skills, and oral argument skills through the remaining International Studies coursework and uses the two advanced courses to integrate the two majors through an experiential learning paper and a senior research paper. Though students will overlap 18 units of coursework between the two majors advisor approval is necessary and students must complete both majors within 120 percent of the 120 units required for the Bachelor of Arts degree. Students are advised on strategies for integrating the two majors, language acquisition, and either study abroad or an internship in a timely, efficient, and rewarding manner.

#### Requirements

A minimum of 48 units in a program approved by the International Studies advisor.

#### Requirements Not Included in Major

##### Foreign Language:

Three years of college level study or equivalent proficiency demonstrated in a language appropriate to the program of study and geographic area concentration selected.

#### Major Requirements

##### Lower Division (15 units):

Complete each of the following courses:

- I/ST 100 Global Citizenship (3)
- Prerequisite/Corequisite: one GE A1 course
- I/ST 200 Introduction to International Studies (3)
- Prerequisite: GE Foundation requirements.
- I/ST 222 Skills and Methods for Global Leadership (3)
- Prerequisite: GE Foundation requirements.

- ECON 100 Principles of Macroeconomics (3)
- Prerequisites: MATH 103 or higher and one GE Foundation course.
- ECON 101 Principles of Microeconomics (3)

Prerequisite/Corequisite: MATH 103 or higher.

##### Upper Division: minimum of 33 units

A course can only be counted towards one category in the major. All upper division courses counting towards the major except for I/ST 492 must be taken for a Letter Grade and must be completed with a grade of "C" or better.

#### Category 1: Core Courses

Complete three of the following core courses (9 units):

- I/ST 317, I/ST 319, I/ST 320, I/ST 333, I/ST 355, I/ST 463.

#### Category 2: Professional Development Area

Complete three courses in any one of the following professional development areas (9 units):

##### (1) International Development:

- ANTH 307; ECON 310, ECON 311, ECON 372, ECON 366, ECON 464, ECON 465, ECON 470, ECON 471; GEOG 319, GEOG 452; HDEV 360; I/ST 319, I/ST 350, I/ST 419; POSC 461.

##### (2) Culture and Identity:

- AFRS 337, AFRS 353; ANTH 419; ASAM 354, ASAM 407; A/ST 320, A/ST 336, A/ST 393; CHIN 451, CHIN 471; COMM 330, COMM 430; CWL 330A-B, CWL 334, CWL 344, CWL 346, CWL 350, CWL

438; ENGL 359, ENGL 459, ENGL 466; FREN 456; GERM 370, GERM 380; HDEV 403; HIST 435, HIST 346, HIST 465; I/ST 320, I/ST 350; JAPN 452, JAPN 453, JAPN 451, JAPN 471; RGR 314, RGR 315, RGR 346, RGR 450; R/ST 308, R/ST 314, R/ST 315, R/ST 317, R/ST 331, R/ST 341, R/ST 344, R/ST 351, R/ST 352, R/ST 353, R/ST 383, R/ST 458, R/ST 460, R/ST 467, RUSS 310, RUSS 428; WGSS 406A, WGSS 410.

(3) Citizenship and Migration:

- ANTH 444, CHLS 335, HIST 412, I/ST 320, SOC 358.

(4) Politics, International Relations, and Social Movements:

- AFRS 430; GEOG 470; HIST 345, HIST 478; I/ST 317, I/ST 318, I/ST 350, I/ST 478; JOUR 312; PHIL 351; POSC 353, POSC 362, POSC 367, POSC 371, POSC 376, POSC 450, POSC 455; SOC 317, SOC 318, SOC 449; WGSS 401, WGSS 402, WGSS 424, WGSS 425, WGSS 449.

(5) International Environmental and Natural Resource Issues:

- ECON 464; ENGR 302; GEOG 340, GEOG 355, GEOG 440; HIST 464; I/ST 355.

Category 3: Geographic Area Concentration

Complete three courses in any one of the following geographic areas (9 units):

Europe Area Concentration:

- CHLS 450; CWL 330A-B, CWL 344, CWL 438; ENGL 359, ENGL 459, ENGL 466; FREN 440, FREN 456; GEOG 316; GERM 370, GERM 380; HIST 304, HIST 332, HIST 333, HIST 334, HIST 337, HIST 338, HIST 339, HIST 340, HIST 343, HIST 346, HIST 357, HIST 435, HIST 437; PHIL 414; RGR 314, RGR 315, RGR 346; RUSS 310, RUSS 428; SPAN 428, SPAN 446, SPAN 449, SPAN 430.

South Asia Area Concentration:

- A/ST 306, A/ST 307; GEOG 314; HIST 385; PHIL 307.

East Asia Area Concentration:

- ANTH 332, ANTH 335; A/ST 306, A/ST 307, A/ST 393, A/ST 495; CHIN 382B, CHIN 451; CWL 334; ENGL 359, GEOG 313, GEOG 315; HIST 382A-B, HIST 383A-B, HIST 384, HIST 386, HIST 388, HIST 406A, HIST 407, HIST 412; JAPN 451, JAPN 452; PHIL 306; POSC 362.

Latin America and the Caribbean Area Concentration:

- ANTH 324, ANTH 432; CHLS 430, CHLS 450, CHLS 450A; GEOG 321; HIST 362, HIST 364, HIST 365, HIST 366, HIST 460, HIST 462, HIST 463, HIST 464, HIST 465; I/ST 476, POSC 358, POSC 481; SPAN 445, SPAN 450, SPAN 455, SPAN 460.

Middle East/North Africa Area Concentration:

- GEOG 309; HIST 393, HIST 394, HIST 417, HIST 432, I/ST 405, POSC 367, SOC 405.

North America Area Concentration:

- ANTH 432; CHLS 300, CHLS 352; CWL 350; GEOG 306, GEOG 321; HIST 435, HIST 462; I/ST 478.

Oceania Area Concentration:

- Due to lack of available courses this concentration can only be chosen if the student is completing a relevant study abroad.

Russia and Central Asia Area Concentration:

- GEOG 318; HIST 341A-B, HIST 418, HIST 440; RUSS 310, RUSS 428.

Africa Area Concentration:

- AFRS 337, AFRS 343A, AFRS 353, AFRS 363, AFRS 430; GEOG 308; HIST 391, HIST 392, HIST 491.

Category 4: Advanced Coursework

- I/ST 492 International Studies Internship/Foreign Study (3)

An internship or foreign study program related to the course of study selected, as approved by the Study Abroad and Internship Advisor.

Prerequisites: Consent of I/ST advisor; completion of a minimum of 15 upper division units required for the major in International Studies.

- I/ST 490 Senior Research Seminar in International Studies (3)

Prerequisites: Senior standing or consent of the International Studies advisor and instructor.

The Dual Major Track

Requirements

A minimum of 48 units in a program approved by the International Studies advisor.

Requirements Not Included in Major

Foreign Language:

Three years of college level study or equivalent proficiency demonstrated in a language appropriate to the

program of study and geographic area concentration selected.

## Major Requirements

### Lower Division (15 units):

Complete each of the following courses:

- I/ST 100 Global Citizenship (3)

Prerequisite/Corequisite: one GE A1 course

- I/ST 200 Introduction to International Studies (3)

Prerequisite: GE Foundation requirements.

- I/ST 222 Skills and Methods for Global Leadership (3)

Prerequisite: GE Foundation requirements.

- ECON 100 Principles of Macroeconomics (3)

Prerequisites: MATH 103 or higher and one GE Foundation course.

- ECON 101 Principles of Microeconomics (3)

Prerequisite/Corequisite: MATH 103 or higher.

Upper Division: minimum of 33 units

All upper division courses counting towards the major except for I/ST 492 must be taken for a Letter Grade and must be completed with a grade of "C" or better.

### Category 1: Core Courses

Complete three of the following core courses (9 units):

- I/ST 317, I/ST 319, I/ST 320, I/ST 333, I/ST 355, I/ST 463.

### Category 2: Dual Major Integration

18 upper division units from the student's second major. All dual major integration courses must have the prefix of the respective department or cross-listed department. Courses are approved for dual major integration by the International Studies advisor.

### Category 3: Advanced Coursework

I/ST 492 International Studies Internship/Foreign Study (3)

An internship or foreign study program related to the course of study selected, as approved by the Study Abroad and Internship Advisor.

Prerequisites: Consent of I/ST advisor; completion of a minimum of 15 upper division units required for the major in International Studies.

I/ST 490 Senior Research Seminar in International Studies (3)

Prerequisites: Senior standing or consent of the International Studies advisor and instructor.

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List changes:

1. No substantive changes to the existing I/ST category or course sequence, other than deleting courses HIST 416, HIST 428, HIST 431 that will become inactive, and adding new courses created (I/ST 405/SOC 405 to "Middle East.." and I/ST 476 to 'Latin America...' concentrations.
2. Category 4 added to existing track, I/ST 492 (Study Abroad or Internship) and I/ST 490 (Senior Seminar) are grouped into "Category 4: Advanced Coursework" in the single (existing) major track.
3. Addition of a second Track in the I/ST program called the "Dual Major Track"
4. In contrast to the existing I/ST program: all 9 units of "Professional Development Area" are removed in the dual major Track
5. In contrast to the existing I/ST program: all 9 units of "Geographic Area Concentration" are removed in the dual major Track
6. In contrast to the existing I/ST program: 18 units from the student's second major will count towards the I/ST major with the dual major Track under "Category 2: Dual Major Integration"
7. I/ST 492 (Study Abroad or Internship) and I/ST 490 (Senior Seminar) are grouped into "Category 3: Advanced Coursework" in the dual major Track

Revised Roadmap Attached

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## PROGRAM CHANGE Bachelor of Arts in Italian Studies

### CURRENT CATALOG TEXT –

Concentration I - Italian Language and Culture

Electives (9 units): ITAL 411, ITAL 414\*, ITAL 433, ITAL 454, ITAL 462, ITAL 473, ITAL 476, ITAL 478, ITAL 490, ITAL 494, ITAL 499.

Two years of a second foreign language.

\* Candidates who intend to teach Italian language are required to take ITAL 414.

#### Concentration II - Interdisciplinary Italian Studies

Electives (9 units): AH 423, AH 424; CWL 330A\*\*, CWL 330B\*\*, CWL 422, CWL 430, CWL 432, CWL 449\*\*, HIST 332; ITAL 345, ITAL 411, ITAL 414, ITAL 454, ITAL 462, ITAL 473, ITAL 476, ITAL 478, ITAL 490, ITAL 494, ITAL 499; MUS 436\*\*, RGR 314, RGR 315, RGR 346, RGR 400.

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#### CHANGING INFORMATION

New Catalog Text:

#### Concentration I - Italian Language and Culture

Electives (9 units): ITAL 411, ITAL 414\*, ITAL 433, ITAL 454, ITAL 462, ITAL 473, ITAL 476, ITAL 478, ITAL 490, ITAL 494, ITAL 499, RGR 490.

Two years of a second foreign language.

\* Candidates who intend to teach Italian language are required to take ITAL 414.

#### Concentration II - Interdisciplinary Italian Studies

Electives (9 units): AH 423, AH 424; CWL 330A\*\*, CWL 330B\*\*, CWL 422, CWL 430, CWL 432, CWL 449\*\*, HIST 332; ITAL 345, ITAL 411, ITAL 414, ITAL 454, ITAL 462, ITAL 473, ITAL 476, ITAL 478, ITAL 490, ITAL 494, ITAL 499; MUS 436\*\*, RGR 314, RGR 315, RGR 346, RGR 400, RGR 490.

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List changes:

Addition of RGR 490 as an elective under both Concentration I and II

No Revised Roadmap Necessary

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#### PROGRAM -CHANGE Bachelor of Arts in Japanese

#### CURRENT CATALOG TEXT –

(under "Core Requirements" for Single Subject Teaching Credential in Japanese)

and one of the following:

- JAPN 421 Selected Readings/Writing in Japanese (3)

Prerequisites: JAPN 302 and JAPN 312, or consent of instructor.

- JAPN 370 Japanese Literature in English Translation (3)

Prerequisite: GE Foundation requirements.

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#### CHANGING INFORMATION

New Catalog Text:

and one of the following:

- JAPN 421 Selected Readings/Writing in Japanese (3)

Prerequisites: JAPN 302 and 312, or consent of instructor.

- JAPN 371 Survey of Japanese Literature (3)

Prerequisites: JAPN 302 and 312, or consent of instructor.

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List changes:

change

- JAPN 370 Japanese Literature in English Translation (3)

Prerequisite: GE Foundation requirements.

to

- JAPN 371 Survey of Japanese Literature (3)

Prerequisites: JAPN 302 and JAPN 312, or consent of instructor.

No Roadmap change.

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**PROGRAM CHANGE** B.A. in Linguistics

**CURRENT CATALOG TEXT**

Take eight courses (24 units) from the following:

- LING 301, LING 363, LING 379, LING 401, LING 413, LING 423, LING 425, LING 426, LING 428, LING 433, LING 438, LING 460, LING 470, LING 472, or LING 490.

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**CHANGING INFORMATION**

New Catalog Text:

Take eight courses (24 units) from the following:

- LING 301, LING 363, LING 379, LING 401, LING 413, LING 423, LING 425, LING 426, LING 428, LING 433, LING 438, LING 460, LING 470, LING 472, LING 490, or LING 499.

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List changes:

LING 499 is added to the list of electives.

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Arts in Political Science

**CURRENT CATALOG TEXT –**

Note: This program must include at least 3 units of a practicum.

Note: POSC 100, the 200-level concentration requirement, and POSC 300 must be completed by the end of the junior year.

Note: POSC 100 and one 200-level POSC course must be completed with a grade of "C" or better.

Note: With the exception of internships, all courses used toward the POSC major must be taken for a letter grade.

Total Units: 39

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**CHANGING INFORMATION**

New Catalog Text:

Note: This program must include at least 3 units of a practicum.

Note: POSC 100, the 200-level concentration requirement, and POSC 300 must be completed by the end of the junior year.

Note: POSC 100 and one 200-level POSC course must be completed with a grade of "C" or better.

Note: With the exception of internships, all courses used toward the POSC major must be taken for a letter grade.

Note: No more than 3 units (each) of POSC 378, POSC 417, POSC 418, and POSC 498 may be used toward the major.

Note: A maximum of 6 units may be earned in POSC 418, POSC 447, POSC 448, and POSC 498 combined.

Total Units: 39

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List changes:

1. Note: No more than 3 units (each) of POSC 378, POSC 417, POSC 418, and POSC 498 may be used toward the major.
2. Note: A maximum of 6 units may be earned in POSC 418, POSC 447, POSC 448, and POSC 498 combined.

No Revised Roadmap Necessary

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## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: PSY 220. Research Methods. 2 units at C2; 1 unit at C-16

### **Items Changing**

Prerequisite: PSY 100; PSY 210 or SOC 250 or HDEV 250 with a grade of 'C' or better, and Completion of GE A1 (Written Communication) requirement

**ARTICULATION** – Minimal Change; no articulation review necessary.

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**PROGRAM CHANGE** Bachelor of Arts in Religious Studies (120 units)

### **CURRENT CATALOG TEXT**

#### Requirements

The Religious Studies major is organized into four areas of study. Religious Texts examines texts from the world's religious traditions and their historical and cultural contexts. Religious Traditions (Group A) includes coursework in Judaism, Christianity and Islam, and Religious Traditions (Group B), coursework in Buddhism, the religions of Japan, the religions of South Asia, the religions of Southeast Asia, and indigenous religions. The fourth area of study is Religion in the Contemporary World.

A minimum of 36 units is required as follows:

#### Core Courses:

Take 6 units from the following:

R/ST 100, R/ST 101, R/ST 111, R/ST 200, R/ST 201

Take the following course:

R/ST 401 Theory and Methods in Study of Religion (3)

Prerequisite: Consent of instructor.

#### Area Courses:

27 units selected from the following four categories, with at least 3 units in each.\*

#### Religious Texts:

R/ST 210, R/ST 311, R/ST 312, R/ST 318, R/ST 319, R/ST 320A, R/ST 320B, R/ST 322, R/ST 375, R/ST 376, R/ST 490\*\*, R/ST 499\*\*

#### Religious Traditions (Group A):

R/ST 230, R/ST 314, R/ST 315, R/ST 317, R/ST 331, R/ST 337, R/ST 383, R/ST 460, R/ST 467, R/ST 471, R/ST 472, R/ST 490\*\*, R/ST 499\*\*

#### Religious Traditions (Group B):

R/ST 341, R/ST 344, R/ST 351, R/ST 352, R/ST 353, R/ST 358, R/ST 490\*\*, R/ST 499\*\*

#### Religion in the Contemporary World:

R/ST 202, R/ST 208, R/ST 240, R/ST 301, R/ST 302, R/ST 308, R/ST 362, R/ST 383, R/ST 391, R/ST 402, R/ST 410, R/ST 457, R/ST 458, R/ST 490\*\*, R/ST 499\*\*

\*Courses with a subject focus on religion that are offered by other departments can be articulated into the major (up to 6 units).

\*\*When the subject matter of a special topics or directed studies course is applicable, the course may be used.

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### **CHANGING INFORMATION**

#### New Catalog Text:

1250 BELLFLOWER BOULEVARD . LONG BEACH, CALIFORNIA 90840-2007 . 562/985-7171/1746/8221 . FAX 562/985-7170

## Requirements

The Religious Studies major is organized into four areas of study. Religious Texts examines texts from the world's religious traditions and their historical and cultural contexts. Religious Traditions (Group A) includes coursework in Judaism, Christianity and Islam, and Religious Traditions (Group B), coursework in Buddhism, the religions of Japan, the religions of South Asia, the religions of Southeast Asia, and indigenous religions. The fourth area of study is Religion in the Contemporary World.

A minimum of 36 units is required as follows:

### Core Courses:

Take 6 units from the following:

R/ST 100, R/ST 101, R/ST 111, R/ST 200, R/ST 201

Take the following course:

R/ST 401 Theory and Methods in Study of Religion (3)

Prerequisite: Consent of instructor.

### Area Courses:

27 units selected from the following four categories, with at least 3 units in each.\*

#### Religious Texts:

R/ST 210, R/ST 311, R/ST 312, R/ST 313A, R/ST 313B, R/ST 318, R/ST 319, R/ST 320A, R/ST 320B, R/ST 322, R/ST 375, R/ST 376, R/ST 490\*\*, R/ST 499\*\*

#### Religious Traditions (Group A):

R/ST 230, R/ST 314, R/ST 315, R/ST 317, R/ST 331, R/ST 337, R/ST 383, R/ST 460, R/ST 467, R/ST 471, R/ST 472, R/ST 490\*\*, R/ST 499\*\*

#### Religious Traditions (Group B):

R/ST 313A, R/ST 313B, R/ST 341, R/ST 344, R/ST 351, R/ST 352, R/ST 353, R/ST 358, R/ST 490\*\*, R/ST 499\*\*

#### Religion in the Contemporary World:

R/ST 202, R/ST 208, R/ST 240, R/ST 301, R/ST 302, R/ST 303, R/ST 308, R/ST 362, R/ST 383, R/ST 391, R/ST 402, R/ST 410, R/ST 457, R/ST 458, R/ST 490\*\*, R/ST 499\*\*

\*Courses with a subject focus on religion that are offered by other departments can be articulated into the major (up to 6 units).

\*\*When the subject matter of a special topics or directed studies course is applicable, the course may be used.

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#### List changes:

Added to Religious Texts: R/ST 313A, R/ST 313B

Added to Religious Traditions Group B: R/ST 313A, R/ST 313B

Added to Religion in the Contemporary World: R/ST 303

No Revised Roadmap Necessary

## COURSE – NEW – LOWER DIVISION

SOC 270. Introduction to Research Methods (3)

Intro to Research Methods

Prerequisite: SOC 100 or SOC 142, SOC 250 or consent of the instructor.

Introduction to conducting original sociological research with a focus on techniques used to collect and analyze quantitative and qualitative data. Students learn how to apply these methods given research ideas and practice implementing various methods.

3 units at C-4

Articulation wanted; transfer course may meet goals.

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## **COURSE – DROP**

Current Course Information: SOC 260. Introduction to Data Analysis 3 units at C-4

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## **PROGRAM CHANGE Bachelor of Arts in Sociology (120 units)**

### **CURRENT CATALOG TEXT**

Bachelor of Arts in Sociology (120 units)

Requirements

Lower Division (13 units):

Take all of the following courses:

- SOC 100 Principles of Sociology (3)

Prerequisite/Corequisite: A GE Foundation course.

- SOC 142 Social Trends and Problems (3)

Prerequisite/Corequisite: ENGL 100 or GE Composition (Area A1) or PSY 130 or equivalent. Corequisite: One Foundation Class.

- SOC 250 Elementary Statistics (4)

Prerequisite: SOC 100 or SOC 142 or instructor consent

- SOC 260 Introduction to Data Analysis (3)

Prerequisite: None

Recommended elective: ANTH 120

Upper Division (minimum 31 units):

Core (16 units)

Take all of the following courses:

- SOC 355 Quantitative Methods of Social Research (4)

Prerequisites: SOC 100, SOC 250, SOC 260 and one upper division course in sociology.

- SOC 356 Classical Sociological Theory (3)

Prerequisite: SOC 100.

- SOC 357 Modern Sociological Theory (3)

Prerequisites: SOC 100, SOC 356 and one other upper division course in sociology. Recommended: courses in the philosophy of science and research methods.

Take one of the following courses:

- SOC 420, SOC 427

Take one of the following courses:

- SOC 335, SOC 354

Take nine units in one concentration

Take six units of electives from other upper-division courses in sociology.

Total credit for courses numbered 490 through 499 may not exceed twelve units. Completion of at least 51 semester units of college work is required before students will be accepted into upper division courses.

Department Recommendation: Lower division courses should be completed before upper division courses.

Taking the courses in sequential order will allow students to gain maximum benefit from the curriculum.

Experience has shown that students who take courses out of sequence do not perform as well academically: SOC 250 and 260 should be taken before SOC 355; SOC 356 should be taken before SOC 357.

Concentrations

Deviance and Social Control

- SOC 342, SOC 345, SOC 354\*, SOC 423, SOC 440, SOC 463, SOC 495

Interaction and Group Relations

- SOC 320, 325 (or WGSS 325), SOC 335\*, SOC 340 (or CHLS 350), SOC 341 (or CHLS 352), SOC 345, SOC 346, SOC 354\*, SOC 358, SOC 423, SOC 426, SOC 447, SOC 464, SOC 492, SOC 495; WGSS 401

Medical Sociology

- SOC 350, SOC 354\*, SOC 423, SOC 462, SOC 463, SOC 464, SOC 466, SOC 493, SOC 495; HSC 400

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## CHANGING INFORMATION

### New Catalog Text:

Bachelor of Arts in Sociology (120 units)

### Requirements

Lower Division (13 units):

Complete each of the following courses with grades of "C" or better:

- SOC 100 Principles of Sociology (3)

Prerequisite/Corequisite: A GE Foundation course.

- SOC 142 Social Trends and Problems (3)

Prerequisite/Corequisite: ENGL 100 or GE Composition (Area A1) or PSY 130 or equivalent. Corequisite: One Foundation Class.

- SOC 250 Elementary Statistics (4)

Prerequisite: SOC 100 or SOC 142 or instructor consent

- SOC 270 Introduction to Research Methods (3)

Prerequisite: SOC 100 or SOC 142, SOC 250 Elementary Statistics or instructor consent.

Upper Division (minimum 31 units):

Core (16 units)

Complete the following courses with a grade of "C" or better:

- SOC 355 Quantitative Methods of Social Research (4)

Prerequisites: SOC 100, SOC 250, SOC 260 and one upper division course in sociology.

- SOC 356 Classical Sociological Theory (3)

Prerequisite: SOC 100.

- SOC 357 Modern Sociological Theory (3)

Prerequisites: SOC 100, SOC 356 and one other upper division course in sociology.

Complete one of the following courses:

- SOC 420, SOC 427

Complete one of the following courses:

- SOC 335, SOC 354

Complete nine units in one concentration.

Complete six units of electives from other upper-division courses in sociology.

Total credit for courses numbered 490 through 499 may not exceed twelve units. Completion of at least 51 semester units of college work is required before students will be accepted into upper division courses.

Department Recommendation: Lower division courses should be completed before upper division courses. Taking the courses in sequential order will allow students to gain maximum benefit from the curriculum.

### Concentrations

#### Deviance and Social Control

- SOC 342, SOC 345, SOC 354\*, SOC 423, SOC 440, SOC 463, SOC 495

#### Interaction and Group Relations

- SOC 320, SOC 325 (or WGSS 325), SOC 335\*, SOC 340 (or CHLS 350), SOC 341 (or CHLS 352), SOC 345, SOC 346, SOC 354\*, SOC 358, SOC 423, SOC 426, SOC 447, SOC 464, SOC 492, SOC 495; WGSS 401

#### Sociology of Health and Medicine

- SOC 350, SOC 354\*, SOC 423, SOC 462, SOC 463, SOC 464, SOC 466, SOC 493, SOC 495; HSC 400

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List changes:

- 1) Lower Division – Require a 'C' or better
- 2) Correcting prerequisites for SOC 357.
- 3) Removed 3<sup>rd</sup> sentence ('Experience has shown that before SOC 357') under Department Recommendation.
- 4) 'Sociology of Health and Medicine' replaces 'Medical Sociology' under 'Concentration' listings.
- 5) Minor editing to replace 'Take' with 'Complete...'
- 6) Delete SOC 260 and add SOC 270 under LD.

No Revised Roadmap Necessary

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## **PROGRAM CHANGE** Bachelor of Arts in Spanish

### **CURRENT CATALOG TEXT**

Take 18 upper-division selected from the following:

•SPAN 314, SPAN 335A, SPAN 335B, SPAN 350, SPAN 351, SPAN 400, SPAN 420, SPAN 426, SPAN 427, SPAN 428, SPAN 429, SPAN 430, SPAN 438, SPAN 439, SPAN 441, SPAN 442, SPAN 443, SPAN 444, SPAN 445, SPAN 446, SPAN 447, SPAN 448, SPAN 449, SPAN 450, SPAN 455, SPAN 460, SPAN 461, SPAN 462, SPAN 463, SPAN 464, SPAN 465, SPAN 466, SPAN 467, SPAN 490, SPAN 491, SPAN 492, SPAN 493, SPAN 494, SPAN 499; RGR 346, RGR 400, RGR 424, RGR 425, RGR 450, RGR 470.

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### **CHANGING INFORMATION**

New Catalog Text:

Take 18 upper-division selected from the following:

•SPAN 314, SPAN 335A, SPAN 335B, SPAN 350, SPAN 351, SPAN 400, SPAN 420, SPAN 426, SPAN 427, SPAN 428, SPAN 429, SPAN 430, SPAN 438, SPAN 439, SPAN 440, SPAN 441, SPAN 442, SPAN 443, SPAN 444, SPAN 445, SPAN 446, SPAN 447, SPAN 448, SPAN 449, SPAN 450, SPAN 455, SPAN 460, SPAN 461, SPAN 462, SPAN 463, SPAN 464, SPAN 465, SPAN 466, SPAN 467, SPAN 490, SPAN 491, SPAN 492, SPAN 493, SPAN 494, SPAN 499; RGR 346, RGR 400, RGR 424, RGR 425, RGR 450, RGR 470, RGR 490.

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List changes:

Addition of SPAN 440 and RGR 490 as electives under the 18 upper-division units required.

No Revised Roadmap Necessary

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## **PROGRAM CHANGE** Bachelor of Arts in Women's, Gender, and Sexuality Studies

### **CURRENT CATALOG TEXT –**

At least 18 of the elective units must be taken from the following list:

• WGSS 205, WGSS 216, WGSS 307, WGSS 308, WGSS 314, WGSS 315, WGSS 316, WGSS 318, WGSS 356, WGSS 365, WGSS 375, WGSS 401, WGSS 410, WGSS 416, WGSS 420, WGSS 424, WGSS 425, WGSS 430, WGSS 432, WGSS 442, WGSS 445A, WGSS 445B, WGSS 490, or WGSS 499.

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### **CHANGING INFORMATION**

New Catalog Text:

At least 18 of the elective units must be taken from the following list:

• WGSS 205, WGSS 216, WGSS 305, WGSS 307, WGSS 308, WGSS 314, WGSS 315, WGSS 316, WGSS 318, WGSS 356, WGSS 365, WGSS 370, WGSS 375, WGSS 401, WGSS 410, WGSS 416, WGSS 420, WGSS 424, WGSS 425, WGSS 430, WGSS 432, WGSS 442, WGSS 445A, WGSS 445B, WGSS 490, or WGSS 499.

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List changes:

Add: WGSS 305, WGSS 370

No Revised Roadmap Necessary

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END.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH**

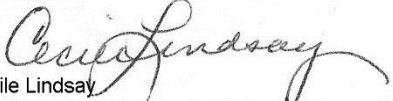
**Office of the Vice Provost for Academic Affairs and  
Dean of Graduate Studies**

December 19, 2014

**CERTIFICATION 15 - 07**

The following changes to the curriculum have completed the University review processes. New and changed courses will become effective Fall 2015 unless otherwise noted on the curriculum form. Changed program requirements will become effective Fall 2015.

Certified:

  
Cecile Lindsay  
Vice Provost for Academic Affairs and Dean of Graduate Studies

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**COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: BIOL 205.## Human Biology (4) F,S (3 units @ C-1; 1 unit @ C-16)

**Items Changing**

Course Description: Prerequisites: GE Foundation requirements.  
Brief survey of human biology focusing on anatomy, physiology, and development of cells, tissues, organs, and organ systems; including molecular biology, genetics, ecology, evolution, and diversity. Specially designed for non-science majors.  
Course fee may be required. Information on fees related to this course can be found here. (Lecture 3 hrs., laboratory 3 hrs.)

**ARTICULATION** – Minimal change. No articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: BIOL 207.## Human Physiology (4) F,S (3 units @ C-1; 1 unit @ C-16)

**Items Changing**

Course Description: Prerequisites: GE Foundation requirements.  
General introduction to the functional integration of human body systems. Designed for majors in biomedical engineering, physical education, and the allied health fields.  
(Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required. Information on fees related to this course can be found here.

**ARTICULATION** – Minimal change. No articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: BIOL 208.## Human Anatomy (4) F,S (3 units @ C-1; 1 unit @ C-16)

**Items Changing**

Course Description:

Prerequisites: Grade of "C" or better in one of the following: ART 372, BIOL 205, BIOL 207, BIOL 212, CHEM 140, DANC 261, or MICR 200. Gross anatomy of humans from the cellular to the systemic levels. Intensive laboratory experience including the use of human cadavers. Designed for majors in kinesiology and the allied health fields. (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required.

**ARTICULATION** – Minimal change. No articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: BIOL 211. Introduction to Evolution and Diversity (4) F, S (3 units @ C-2; 1 unit @ C-16)

**Items Changing**

Course Description: Prerequisite/Corequisite: CHEM 111A with a grade of "C" or better. Intended for natural science majors. First of three semester introductory sequence. Evolution as a process responsible for biological diversity at all levels: molecular, cellular, organismal, population, and community. Phylogenetic and taxonomic survey of life. Science as method of inquiry. Failure of either the lecture or the laboratory component will result in a failing grade for the entire course. Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required. Information on fees related to this course can be found here.

**ARTICULATION** – Minimal change. No articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: BIOL 211L. Introduction to Evolution and Diversity Laboratory (1) F, S (1 unit @ C-16)

**Items Changing**

Course Description: Prerequisites: Open only to students who have successfully completed the equivalent of the lecture component of BIOL 211 at another accredited institution and have consent of the Department of Biological Sciences. Phylogenetic and taxonomic survey of life emphasizing the principles of evolution and science as a method of inquiry. Identical to the laboratory component of BIOL 211. Students enrolled in BIOL 211L will take it in the same room and at the same time as students enrolled in BIOL 211. Letter grade only (A-F). (Laboratory 3 hrs.) Course fee may be required. Information on fees related to this course can be found here.

**ARTICULATION** – Minimal change. No articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: BIOL 212. Introduction to Cell and Molecular Biology (4) F, S (3 units @ C-2; 1 unit @ C-16)

**Items Changing**

Course Description: Prerequisites: BIOL 211, CHEM 111A with grades of "C" or better. Prerequisite/Corequisite: CHEM 111B. The second of a three semester introductory sequence. Introduction to macromolecular and cellular structure and function and to fundamental genetic principles. Failure of either the lecture or laboratory component will result in a failing grade for the entire course. Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required. Information on fees related to this course can be found here.

**ARTICULATION** – Minimal change. No articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: BIOL 212L. Introduction to Cell and Molecular Biology Laboratory (1) F, S (1 unit @ C-16)

**Items Changing**

Course Description: Prerequisites: Open only to students who have successfully completed the equivalent of the lecture component of BIOL 212 at another institution and have consent of the Department of Biological Sciences.

Introduction to methods for studying macromolecular and cellular structure and function and fundamental genetic analyses. Identical to the laboratory component of BIOL 212. Students enrolled in BIOL 212L will take it in the same room and at the same time as students enrolled in BIOL 212. Letter grade only (A-F). (Laboratory 3 hrs.) Course fee may be required. Information on fees related to this course can be found here.

**ARTICULATION** – Minimal change. No articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: BIOL 213. Introduction to Ecology and Physiology (4) F, S (3 units @ C-2; 1 unit @ C-16)

**Items Changing**

Course Description: Prerequisites: BIOL 211, 212, CHEM 111B, each with a grade of "C" or better. Introduction to the structure and function of organ systems across a variety of taxa, and the ecological interactions among organisms and their environment. Failure of either the lecture or the laboratory component will result in failing grade for the entire course. Letter grade only (A-F). (Lecture 3 hrs., laboratory 3 hrs.) Course fee may be required. Information on fees related to this course can be found here.

**ARTICULATION** – Minimal change. No articulation review necessary.

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: BIOL 213L. Introduction to Ecology and Physiology Laboratory (1) F, S (1 unit @ C-16)

**Items Changing**

Course Description: Prerequisites: Open only to students who have successfully completed the equivalent of the lecture component of BIOL 213 at another institution and have consent of the Department of Biological Sciences. Introduction to methods for studying plant and animal structure and function and the interactions among organisms and their environments. Identical to the laboratory component of BIOL 213. Students enrolled in BIOL 213L will take it in the same room and at the same time as students enrolled in BIOL 213. Letter grade only (A-F). (Laboratory 3 hrs.) Course fee may be required. Information on fees related to this course can be found here.

**ARTICULATION** – Minimal change. No articulation review necessary.

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**PROGRAM CHANGE** Bachelor of Science in Biology

**CURRENT CATALOG TEXT**

Bachelor of Science in Biology  
Biology (120 units)

This degree major is designed for students pursuing careers that involve the study of life; it is especially appropriate for those contemplating graduate work in the biological sciences. Students may not combine this option with any other in the B.S. in Biology nor with the B.S. in Marine Biology or Microbiology as part of a dual major. This option requires approximately 80-84 units in the major, of which 39-41 are in lower division and 41-43 are in upper division.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, and 3. all courses in the major.

## CHANGING INFORMATION

New Catalog Text:  
Bachelor of Science in Biology  
Biology (120 units)

This degree major is designed for students pursuing careers that involve the study of life. This general option is designed to expose students to a wide range of biological topics and is the most flexible option in terms of courses required. With the right elective choices, this option can work for students planning on future careers in health professions or graduate and professional studies in Biological Sciences. Students may not combine this option with any other in the B.S. in Biology nor with the B.S. in Marine Biology or Microbiology as part of a dual major. This option requires approximately 80-84 units in the major, of which 39-41 are in lower division and 41-43 are in upper division.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, and 3. all courses in the major. In addition students must receive a C or better in all upper division major courses.

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List changes:

- 1) Require students to have a "C" or better in upper division major courses.
- 2) General rewording of introductory paragraph.

No Revised Roadmap Necessary

## PROGRAM - CHANGE

Program Name: Bachelor of Science in Biology - Option in Biology Education

## CURRENT CATALOG TEXT

This option is designed solely for students who wish to become secondary school Biology teachers. This option requires 82-92 units in the major, of which 53-60 units are lower division and 29-32 units are upper division. Prospective students should consult the Single Subject Science Education Advisor in the Department of Science Education early to plan their program.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, and 3. all courses in the major.

### Requirements

#### Lower Division:

Take all of the following:

BIOL 153 Introduction to Marine Biology (3)

Prerequisites/Corequisites: Courses that fulfill the A.1 and B.2 GE requirements.

BIOL 211 Introduction to Evolution and Diversity (4)

Prerequisite/Corequisite: CHEM 111A with a grade of "C" or better.

BIOL 212 Intro to Cell and Molecular Biology (4)

Prerequisites: BIOL 211, CHEM 111A with grades of "C" or better.

Prerequisite/Corequisite: CHEM 111B.

BIOL 213 Intro to Ecology and Physiology (4)

Prerequisites: BIOL 211, BIOL 212, CHEM 111B with a grade of "C" or better

The remaining biological sciences course should be chosen in consultation with an advisor; BIOL 495/MICR 495 is highly recommended. Either CHEM 441A, CHEM 441B or CHEM 448 will count toward this additional required course. Students may use BIOL or MICR 496 as one of the nine required upper division courses but only with prior permission of the advisor for this option. .

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## CHANGING INFORMATION

### New Catalog Text:

This option is designed solely for students who wish to become secondary school Biology teachers. Prospective students should consult the Single Subject Science Education Advisor in the Department of Science Education early to plan their program.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, and 3. all courses in the major. In addition, students must receive a "C" or better in all upper division major courses.

### Requirements

#### Lower Division:

Take all of the following:

BIOL 211 Introduction to Evolution and Diversity (4)

Prerequisite/Corequisite: CHEM 111A with a grade of "C" or better.

BIOL 212 Intro to Cell and Molecular Biology (4)

Prerequisites: BIOL 211, CHEM 111A with grades of "C" or better.

Prerequisite/Corequisite: CHEM 111B.

BIOL 213 Intro to Ecology and Physiology (4)

Prerequisites: BIOL 211, BIOL 212, CHEM 111B with a grade of "C" or better.

The remaining biological sciences course should be chosen in consultation with an advisor; BIOL 495/MICR 495 is highly recommended. Either CHEM 441A, CHEM 441B or CHEM 448 will count toward this additional required course. With prior permission of the advisor for this option, students may use a total of 3 units of any combination of BIOL/MICR 495 (2 units max) and/or BIOL/MICR 496 (3 units max) as an elective.

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### List changes:

1. Removed unit totals for the major, lower div., and upper div.
2. Require students to have a "C" or better in all upper division major courses.
3. Remove BIOL 153 from lower division requirements.
4. Reword electives re 495 and 496.

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Science in Biology, Option in Organismal Biology

Program Code: BIOLBS016

## CURRENT CATALOG TEXT

### Bachelor of Science in Biology

Option in Organismal Biology (120 units)

This option is designed primarily for those interested in careers that involve the biology of animals, plants and the study of organisms in relation to their environment. It is particularly appropriate for those seeking employment in private industry or government service as well as those students contemplating graduate work in these fields. This option requires approximately 81-84 units in the major, of which 39-41 units are in lower division and 42-43 units are in upper division.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, and 3. all courses in the major.

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**CHANGING INFORMATION:**

New Catalog Text:

Bachelor of Science in Biology  
Option in Organismal Biology (120 units)

This option is designed primarily for those interested in careers that involve the biology of animals, plants and the study of organisms in relation to their environment. It is particularly appropriate for those seeking employment in private industry (such as environmental consulting firms), or government service (such as fish and game agencies), as well as those students contemplating graduate work in these fields. This option requires approximately 81-84 units in the major, of which 39-41 units are in lower division and 42-43 units are in upper division.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, and 3. all courses in the major. In addition students must receive a C or better in all upper division major courses.

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List changes:

- 1) Require students to have a "C" or better in upper division major courses.
- 2) General rewording of introductory paragraph.

Roadmaps are required for all undergraduate degree programs with changes to be included in the formal certification. If the change does not affect the existing roadmap, please indicate no change.

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Science in Biology - Option in Molecular Cell Biology and Physiology

**CURRENT CATALOG TEXT**

Bachelor of Science in Biology, Option in Molecular Cell Biology and Physiology (120 units)

This option is designed primarily for those interested in careers that involve biology at the cell, molecular and organ system levels and is particularly appropriate for those contemplating graduate work in these fields or entering one of the health professions, such as medicine and physical therapy. Students in this option might also want to pursue the Certificate in Biotechnology described elsewhere in this Catalog. This option requires approximately 79-83 units in the major, of which 39-41 are in lower division and 40-42 are in upper division.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, and 3. all courses in the major.

Take at least one of the following courses/course pairs:

BIOL 342 Human/Mammalian Phys (3)

Prerequisites: BIOL 211, 212, 213 all with grade of "C" or better. Recommended: PHYS 100A,B And

BIOL 342L Lab in Human/Mammalian Phys (1)

Prerequisite/Corequisite: BIOL 342 with a grade of "C" or better.

Or

BIOL 345 Comparative Animal Physio (3)

Prerequisites: BIOL 211, 212, 213 all with grade of "C" or better. And

BIOL 345L Lab in Comp Animal Phys (1)

Prerequisite/Corequisite: BIOL 345 with a grade of "C" or better.

Or

BIOL 440L Molecular Cell Biology Lab (3)

Prerequisites: BIOL 340, 370, both with a grade of "C" or better, and consent of instructor.

If more than one is taken, the second course may count towards the electives below.

Take four courses totaling at least 12 units selected from the following:

BIOL 431 Biology of Cancer (3)

Prerequisites: BIOL 340, 370 with a grade of "C" or better.

BIOL 432 Stem Cell Biology (3)

Prerequisites: BIOL 433 with a grade of "C" or better.

BIOL 433 Developmental Biology (3)

Prerequisites: BIOL 340, and either BIOL 370 or MICR 371, both with a grade of "C" or better.

BIOL 440L Molecular Cell Biology Lab (3)

Prerequisites: BIOL 340, BIOL 370, both with a grade of "C" or better, and consent of instructor.

BIOL 442 Physiology at the Limit (3)

Prerequisites: BIOL 342 or BIOL 345 with a grade of "C" or better.

BIOL 443 Endocrinology (3)

Prerequisites: BIOL 340 or CHEM 441B; CHEM 220A or CHEM 227; and one of BIOL 341, BIOL 342, BIOL 345, BIOL 445, BIOL 448; CHEM 441A or CHEM 448, all with a grade of "C" or better.

BIOL 444 Reproductive Biology (3)

Prerequisite: BIOL 342 or BIOL 345 with a grade of "C" or better.

BIOL 445 Metabolic Regulation (3)

Prerequisites: BIOL 340, BIOL 342 or BIOL 345; CHEM 441A with grade of "C" or better.

BIOL 447 Molecular Plant Physiology (3)

Prerequisites: BIOL 340, BIOL 370, both with grade of "C" or better. (Undergraduates enroll in BIOL 447; graduates enroll in BIOL 547.)

BIOL 448 Principles of Neurobiology (3)

Prerequisites: BIOL 340 or CHEM 441B and one of BIOL 341, 342, or 345 all with a grade of "C" or better.

BIOL 449 Fish Physiology and Endocrinology (3)

Prerequisite: BIOL 345 with grade of "C" or better.

BIOL 472 Molecular Evolution (3)

Prerequisite: BIOL 370 with a grade of "C" or better.

BIOL 473 Molecular Genetics (3)

Prerequisites: BIOL 370 or MICR 371; CHEM 220A,B and 223A,B, or CHEM 227, all with a grade of "C" or better.

BIOL 477 Biotechnology & Bioinformatics (4)

Prerequisite: BIOL 340 or 370 or CHEM 441A,B; all with a grade of "C" or better.

BIOL/MICR 416 Virology (3)

Prerequisite: MICR 320 or BIOL 340 with a grade of "C" or better.

BIOL/MICR 430 Immunology (3)

Prerequisite: BIOL 340 with a grade of "C" or better.

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## CHANGING INFORMATION

New Catalog Text:

Bachelor of Science in Biology

Option in Molecular Cell Biology and Physiology (120 units)

This option is designed primarily for those interested in careers that involve biology at the cell, molecular and organ system levels and is particularly appropriate for those contemplating graduate work in these fields or entering health professions. Students in this option might also want to pursue the Certificate in Biotechnology described elsewhere in this Catalog. This option requires approximately 79-83 units in the major, of which 39-41 are in lower division and 40-42 are in upper division.

All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, and 3. all courses in the major. In addition, students must receive a "C" or better in all upper division major courses.

Take at least one of the following courses/course pairs:

BIOL 342 Human/Mammalian Phys (3)

Prerequisites: BIOL 211, 212, 213 all with grade of "C" or better. Recommended: PHYS 100A,B And

BIOL 342L Lab in Human/Mammalian Phys (1)

Prerequisite/Corequisite: BIOL 342 with a grade of "C" or better.

Or

BIOL 345 Comparative Animal Physio (3)

Prerequisites: BIOL 211, 212, 213 all with grade of "C" or better. And

BIOL 345L Lab in Comp Animal Phys (1)

Prerequisite/Corequisite: BIOL 345 with a grade of "C" or better.

Or

BIOL 440L Molecular Cell Biology Lab (3)

Prerequisites: BIOL 340, 370, both with a grade of "C" or better, and consent of instructor.

Take four additional courses totaling at least 12 units selected from the following:

BIOL 431 Biology of Cancer (3)

Prerequisites: BIOL 340, 370 with a grade of "C" or better.

BIOL 432 Stem Cell Biology (3)

Prerequisites: BIOL 433 with a grade of "C" or better.

BIOL 433 Developmental Biology (3)

Prerequisites: BIOL 340, and either BIOL 370 or MICR 371, both with a grade of "C" or better.

BIOL 440L Molecular Cell Biology Lab (3)

Prerequisites: BIOL 340, BIOL 370, both with a grade of "C" or better, and consent of instructor.

BIOL 442 Physiology at the Limit (3)

Prerequisites: BIOL 342 or BIOL 345 with a grade of "C" or better.

BIOL 443 Endocrinology (3)

Prerequisites: BIOL 340 or CHEM 441B; CHEM 220A or CHEM 227; and one of BIOL 341, BIOL 342, BIOL 345, BIOL 445, BIOL 448; CHEM 441A or CHEM 448, all with a grade of "C" or better.

BIOL 444 Reproductive Biology (3)

Prerequisite: BIOL 342 or BIOL 345 with a grade of "C" or better.

BIOL 445 Metabolic Regulation (3)

Prerequisites: BIOL 340, BIOL 342 or BIOL 345; CHEM 441A with grade of "C" or better.

BIOL 447 Molecular Plant Physiology (3)

Prerequisites: BIOL 340, BIOL 370, both with grade of "C" or better. (Undergraduates enroll in BIOL 447; graduates enroll in BIOL 547.)

BIOL 448 Principles of Neurobiology (3)

Prerequisites: BIOL 340 or CHEM 441B and one of BIOL 341, 342, or 345 all with a grade of "C" or better.

BIOL 449 Fish Physiology and Endocrinology (3)

Prerequisite: BIOL 345 with grade of "C" or better.

BIOL 472 Molecular Evolution (3)

Prerequisite: BIOL 370 with a grade of "C" or better.

BIOL 473 Molecular Genetics (3)

Prerequisites: BIOL 370 or MICR 371; CHEM 220A,B and 223A,B, or CHEM 227, all with a grade of "C" or better.

BIOL 474 Bioinformatics (3)

Prerequisites: BIOL 260; BIOL 370 or MICR 371, all with a grade of "C" or better.

BIOL 477 Biotechnology & Bioinformatics (4)

Prerequisite: BIOL 340 or 370 or CHEM 441A,B; all with a grade of "C" or better.

BIOL/MICR 416 Virology (3)

Prerequisite: MICR 320 or BIOL 340 with a grade of "C" or better.

BIOL/MICR 430 Immunology (3)

Prerequisite: BIOL 340 with a grade of "C" or better.

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List changes:

1. Require students to have a "C" or better in all upper division major courses.
2. Remove the sentence "If more than one is taken, the second course may count towards the electives below" after list of courses.
3. Add the word "additional" to sentence re four courses totaling at least 12 units selected from the following:
4. Add BIOL 474 Bioinformatics to list of electives.

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**PROGRAM CHANGE** Bachelor of Science in Marine Biology

**CURRENT CATALOG TEXT**

Take a minimum of three courses from the following:

BIOL 411, BIOL 420, BIOL 449, BIOL 451, BIOL 454A, BIOL 455, BIOL 457, BIOL 463, BIOL 464;  
BIOL/MICR 415; GEOG 481; GEOL 465, GEOL 466; PHYS 100B or PHYS 152; MATH 119B or MATH 123;  
and, with prior consent of marine biology advisor for both BIOL 490, and 3 units of BIOL 496.

These courses do not meet any specific or elective requirements for this major: BIOL 301, BIOL 304, BIOL 305; MICR 300; and NSCI 492.

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**CHANGING INFORMATION**

New Catalog Text:

Take a minimum of three courses or course sets from the following:

BIOL 411, BIOL 420, BIOL 449, BIOL 451, BIOL 454A, BIOL 455, BIOL 457, BIOL 463, BIOL 464;  
BIOL/MICR 415; GEOG 481; GEOL 465 and 466; PHYS 100B or 152; MATH 119B or 123; and, with prior  
consent of marine biology advisor for both BIOL 490, and 3 units of BIOL 496.

These courses do not meet any specific or elective requirements for this major: BIOL 301, BIOL 304, BIOL 305; MICR 300; and NSCI 492.

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List changes:

1. To clarify the courses, or course sets, allowed for the major. GEOG 465 and 466 is the only course set on the list. If that set is taken, it is counted as 1 and then two more courses are needed to meet the requirement.

No Revised Roadmap Necessary

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: CHEM 90 Introduction to General Chemistry 3 Units @ C-1 and 1 unit @ C-7

**Items Changing**

Prerequisite(s)/Corequisite(s): MATH 109 or higher

**ARTICULATION** – Minimal change. No articulation review necessary.

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**PROGRAM CHANGE** Bachelor of Arts in Chemistry

## CURRENT CATALOG TEXT

### Degree Progress

Chemistry and Biochemistry majors must complete the following requirements within the specified time of declaring the major. Some students may need to take courses during Summer Session to meet these requirements. Students who have not met the requirements by the required semester must either declare another major or meet with an Academic Advisor to determine if the student's performance in the courses merits an additional semester to complete. Students required to enroll in pre-baccalaureate math may receive one additional semester to meet the requirements.

Freshmen: A grade "C" or better must be achieved in both MATH 122 and CHEM 111A within one calendar year. A grade of "C" or better must be achieved in CHEM 111B and CHEM 220A within two calendar years.

Transfer Students: A grade "C" or better must be achieved in both CHEM 220A and PHYS 151 within one calendar year. In addition, all Chemistry and Biochemistry majors must maintain major and upper-division major GPAs of 2.0 or higher. A student whose GPA in the major or upper division GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to raise their major GPA(s) to 2.0. Students who do not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the Department of Chemistry and Biochemistry explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional semester must declare a new major.

#### CHEM 220A Organic Chemistry I (3)

Prerequisites: CHEM 111B with a grade of "C" or better. Corequisites: CHEM 224 is required for students repeating course. CHEM 223A must be taken concurrently if required by a degree plan.

#### CHEM 220B Organic Chemistry II (3)

Prerequisites: CHEM 220A with a grade of C or better Corequisite: CHEM 223B or CHEM 320L except for students who previously earned a "C" or better in CHEM 223B or 320L

#### CHEM 451 Instrumental Methods of Analysis (4)

Take an additional 7 units of chemistry electives including a minimum of 3 additional units chosen with advisor consultation from the following:

CHEM 332, CHEM 373, CHEM 421, CHEM 431, CHEM 441A,B, CHEM 480, CHEM 496

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## CHANGING INFORMATION

### New Catalog Text:

#### Degree Progress

BA Chemistry majors must complete the following requirements within the specified time of declaring the major. Some students may need to take courses during Summer Session to meet these requirements. Students who have not met the requirements by the required semester must either declare another major or meet with an Academic Advisor to determine if the student's performance in the courses merits an additional semester to complete. Students required to enroll in pre-baccalaureate math may receive one additional semester to meet the requirements.

Freshmen: A grade "C" or better must be achieved in both MATH 122 and CHEM 111A within one calendar year. A grade of "C" or better must be achieved in CHEM 111B and CHEM 220A within two calendar years.

Transfer Students: A grade "C" or better must be achieved in both CHEM 220A and PHYS 151 within one calendar year. In addition, BA Chemistry majors must earn a "C" or better in all courses counting toward the major and must maintain major and upper-division major GPAs of 2.0 or higher. A student whose GPA in the major or upper division GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to raise their major GPA(s) to 2.0. Students who do

not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the Department of Chemistry and Biochemistry explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional semester must declare a new major.

**CHEM 220A Organic Chemistry I (3)**

Prerequisites: CHEM 111B with a grade of "C" or better. Corequisites: CHEM 224 is required for students repeating course. CHEM 223A must be taken concurrently if required by a degree plan.

**CHEM 220B Organic Chemistry II (3)**

Prerequisites: CHEM 220A with a grade of C or better Corequisite: CHEM 223B or CHEM 320L except for students who previously earned a "C" or better in CHEM 223B or 320L

**CHEM 451 Instrumental Methods of Analysis (5)**

Take an additional 7 units of chemistry electives including a minimum of 3 additional units chosen with advisor consultation from the following:

CHEM 332, CHEM 373, CHEM 421, CHEM 431, CHEM 441A, CHEM 441B, CHEM 448, CHEM 480, CHEM 496

Only one biochemistry pathway may be used toward this degree program: either CHEM 448 or CHEM 441A and/or 441B

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**List changes:**

First line: change "Chemistry and Biochemistry" to "BA Chemistry"

Paragraph 4: change "all Chemistry and Biochemistry majors" to "BA Chemistry majors must earn a "C" or better in all courses counting toward the major and"

CHEM 451: Change units to 5 (Note: the course was changed to 5 units several years ago)

Split 441A,B into separate electives as "441A, 441B" (added clarity)

Add "448" to the list of electives and disallow use of 441A or 441B and 448

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Science in Biochemistry

**CURRENT CATALOG TEXT**

**Degree Progress**

Chemistry and Biochemistry majors must complete the following requirements within the specified time of declaring the major. Some students may need to take courses during Summer Session to meet these requirements. Students who have not met the requirements by the required semester must either declare another major or meet with an Academic Advisor to determine if the student's performance in the courses merits an additional semester to complete. Students required to enroll in pre-baccalaureate math may receive one additional semester to meet the requirements.

Freshmen: A grade "C" or better must be achieved in both MATH 122 and CHEM 111A within one calendar year. A grade of "C" or better must be achieved in CHEM 111B and CHEM 220A within two calendar years.

Transfer Students: A grade of "C" or better must be achieved in both CHEM 220A and PHYS 151 within 1 calendar year.

In addition, all Chemistry and Biochemistry majors must maintain major and upper-division major GPAs of 2.0 or higher. A student whose GPA in the major or upper division GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to raise their major GPA(s) to 2.0. Students who do not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the Department of Chemistry and Biochemistry explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional

semester must declare a new major.

**CHEM 220A Organic Chemistry I (3)**

Prerequisites: CHEM 111B with a grade of "C" or better. Corequisites: CHEM 224 is required for students repeating course. CHEM 223A must be taken concurrently if required by a degree plan.

**CHEM 220B Organic Chemistry II (3)**

Prerequisites: CHEM 220A with a grade of C or better Corequisite: CHEM 223B or CHEM 320L except for students who previously earned a "C" or better in CHEM 223B or 320L

**CHEM 451 Instrumental Methods of Analysis (4)**

Take seven additional units of elective including at least 3 units chosen from:

BIOL 445, BIOL 448, BIOL 473 and BIOL 342L plus 342L; CHEM 331, CHEM 373, CHEM 420, CHEM 421, CHEM 431, CHEM 451, CHEM 480; MICR 416, MICR 473.

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**CHANGING INFORMATION**

New Catalog Text:

**Degree Progress**

BS Biochemistry majors must complete the following requirements within the specified time of declaring the major. Some students may need to take courses during Summer Session to meet these requirements. Students who have not met the requirements by the required semester must either declare another major or meet with an Academic Advisor to determine if the student's performance in the courses merits an additional semester to complete. Students required to enroll in pre-baccalaureate math may receive one additional semester to meet the requirements.

Freshmen: A grade "C" or better must be achieved in both MATH 122 and CHEM 111A within one calendar year. A grade of "C" or better must be achieved in CHEM 111B and CHEM 220A within two calendar years.

Transfer Students: A grade of "C" or better must be achieved in both CHEM 220A and PHYS 151 within 1 calendar year.

In addition, BS Biochemistry majors must earn a "C" or better in all courses counting toward the major and must maintain major and upper-division major GPAs of 2.0 or higher. A student whose GPA in the major or upper division GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to raise their major GPA(s) to 2.0. Students who do not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the Department of Chemistry and Biochemistry explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional semester must declare a new major.

**CHEM 220A Organic Chemistry I (3)**

Prerequisites: CHEM 111B with a grade of "C" or better. Corequisites: CHEM 224 is required for students repeating course. CHEM 223A must be taken concurrently if required by a degree plan.

**CHEM 220B Organic Chemistry II (3)**

Prerequisites: CHEM 220A with a grade of C or better Corequisite: CHEM 223B or CHEM 320L except for students who previously earned a "C" or better in CHEM 223B or 320L

**CHEM 451 Instrumental Methods of Analysis (5)**

Take at least seven units of elective chosen from: BIOL 342/342L, BIOL 370, BIOL 416, BIOL 430, BIOL 431, BIOL 432, BIOL 433, BIOL 443, BIOL 445, and BIOL 473; CHEM 251, CHEM 331, CHEM 332, CHEM 373, CHEM 420, CHEM 421, CHEM 431, CHEM 451, CHEM 466, CHEM 480, CHEM 496, CHEM 498, CHEM 498H, and CHEM 499.

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List changes:

First line: change "Chemistry and Biochemistry" to "BS Biochemistry"

Paragraph 4: change "all Chemistry and Biochemistry majors" to "BS Biochemistry majors must earn a "C" or better in all courses counting toward the major and"

CHEM 451: Change units to 5 (Note: the course was changed to 5 units several years ago)

Add "CHEM 496" to the list of electives, delete "MICR 416, MICR 473" and replace with "BIOL 370, BIOL 416, BIOL 430, BIOL 433" in the list of electives

BIOL 448 was removed from the list; CHEM 251, CHEM 332, CHEM 466, CHEM 498, CHEM 498H, CHEM 499 were added to the list.

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Science in Chemistry

**CURRENT CATALOG TEXT**

Degree Progress

Chemistry and Biochemistry majors must complete the following requirements within the specified time of declaring the major. Some students may need to take courses during Summer Session to meet these requirements. Students who have not met the requirements by the required semester must either declare another major or meet with an Academic Advisor to determine if the student's performance in the courses merits an additional semester to complete. Students required to enroll in pre-baccalaureate math may receive one additional semester to meet the requirements.

Freshmen: A grade "C" or better must be achieved in both MATH 122 and CHEM 111A within one calendar year. A grade of "C" or better must be achieved in CHEM 111B and CHEM 220A within two calendar years.

Transfer Students: A grade of "C" or better must be achieved in both CHEM 220A and PHYS 151 within 1 calendar year.

In addition, all Chemistry and Biochemistry majors must maintain major and upper-division major GPAs of 2.0 or higher. A student whose GPA in the major or upper division GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to raise their major GPA(s) to 2.0. Students who do not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the Department of Chemistry and Biochemistry explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional semester must declare a new major.

CHEM 220A Organic Chemistry I (3)

Prerequisites: CHEM 111B with a grade of "C" or better. Corequisites: CHEM 224 is required for students repeating course. CHEM 223A must be taken concurrently if required by a degree plan.

CHEM 220B Organic Chemistry II (3)

Prerequisites: CHEM 220A with a grade of C or better Corequisite: CHEM 223B or CHEM 320L except for students who previously earned a "C" or better in CHEM 223B or 320L

CHEM 451 Instrumental Methods of Analysis (4)

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**CHANGING INFORMATION**

New Catalog Text:

Degree Progress

BS Chemistry majors must complete the following requirements within the specified time of declaring the major. Some students may need to take courses during Summer Session to meet these requirements. Students who have not met the requirements by the required semester must either declare another major or meet with an Academic Advisor to determine if the student's performance in the courses merits an additional semester to complete. Students required to enroll in pre-baccalaureate math may receive one additional semester to meet the requirements.

Freshmen: A grade "C" or better must be achieved in both MATH 122 and CHEM 111A within one calendar year. A grade of "C" or better must be achieved in CHEM 111B and CHEM 220A within two calendar years.

Transfer Students: A grade of "C" or better must be achieved in both CHEM 220A and PHYS 151 within 1 calendar year.

In addition, all BS Chemistry majors must earn a "C" or better in all courses counting toward the major and must maintain major and upper-division major GPAs of 2.0 or higher. A student whose GPA in the major or upper division GPA in the major falls below 2.0 will be advised that they are at risk of being dismissed from the major and granted one semester to raise their major GPA(s) to 2.0. Students who do not successfully raise their major GPA(s) must meet with an advisor to declare another major or submit an appeal to the Department of Chemistry and Biochemistry explaining why they need one additional semester. Students whose major GPAs remain below 2.0 after this additional semester must declare a new major.

CHEM 220A Organic Chemistry I (3)

Prerequisites: CHEM 111B with a grade of "C" or better. Corequisites: CHEM 224 is required for students repeating course. CHEM 223A must be taken concurrently if required by a degree plan.

CHEM 220B Organic Chemistry II (3)

Prerequisites: CHEM 220A with a grade of C or better Corequisite: CHEM 223B or CHEM 320L except for students who previously earned a "C" or better in CHEM 223B or 320L

CHEM 451 Instrumental Methods of Analysis (5)

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List changes:

First line: change "Chemistry and Biochemistry" to "BS Chemistry"

Paragraph 4: change "Chemistry and Biochemistry majors" to "BS Chemistry majors must earn a "C" or better in all courses counting toward the major and"

CHEM 451: Change units to 5 (Note: the course was changed to 5 units several years ago)

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Science in Environmental Science and Policy

#### **CURRENT CATALOG TEXT**

Lower Division:

Take all the following courses:

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- MATH 122 (or 119A with advisor approval) Calculus I (4)

Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.

- MATH 123 (or 119B with advisor approval) Calculus II (4)

Prerequisite: A grade of "C" or better in MATH 122.

- PHYS 151 (or PHYS 100A with advisor approval) Mechanics and Heat (4)

Prerequisite/Corequisite: MATH 122.

Upper Division:

Take all the following courses:

- BIOL 350 General Ecology (3)  
Prerequisites: BIOL 211, BIOL 212, BIOL 213, BIOL 260; MATH 119A or MATH 122 all with a grade of "C" or better. Chemistry and physics recommended.
  - CHEM 227 (or CHEM 220A) Fundamentals of Organic Chemistry (3)  
Prerequisite: CHEM 111A with a grade of "C" or better; CHEM 111B is recommended.
  - ES P 300 Environmental Law and Policy (3)  
Prerequisites: ESP 200 and upper division standing; or consent of instructor.
  - ES P 400 Environmental Science and Policy Capstone Project (3)  
Prerequisites: BIOL 350; ECON 462 or ECON 463 or ECON 464 or CE 406; ESP 200, ESP 300; GEOG 481; GEOL 300; or consent of instructor.
  - GEOG 481 Geographic Information Science for Natural Sciences (4)  
Prerequisites: Junior/Senior/Graduate standing; GEOG 140 or BIOL 153 or GEOL 102.
  - GEOL 300 Earth Systems and Global Change (3)  
Prerequisites: GE Foundation requirement, upper division standing, and CHEM 100 or CHEM 111A or GEOL 102 or GEOL 106 with a grade of "C" or better.
- ...
- Take 3 units of social science electives, chosen with the approval of the advisor.  
Take 9 units of natural science electives, chosen with the approval of the advisor.

## CHANGING INFORMATION

New Catalog Text:

Lower Division:

...

Take one the following courses:

- MATH 122 Calculus I (4)

Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.

or

MATH 119A Survey of Calculus I (3)

Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 113.

Take one the following courses:

- MATH 123 Calculus II (4)

Prerequisite: A grade of "C" or better in MATH 122.

Or

MATH 119B Survey of Calculus II (3)

Prerequisite: A grade of "C" or better in MATH 119A or MATH 122.

Take one the following courses:

- PHYS 151 Mechanics and Heat (4)

Prerequisite/Corequisite: MATH 122.

Or

PHYS 100A General Physics (4)

Prerequisite: MATH 109 or MATH 113 or MATH 119A or MATH 122.

Upper Division:

Take all the following courses:

- BIOL 350 General Ecology (3)

Prerequisites: BIOL 211, BIOL 212, BIOL 213, BIOL 260; MATH 119A or MATH 122 all with a grade of "C" or better. Chemistry and physics recommended.

- CHEM 227 (or CHEM 220A) Fundamentals of Organic Chemistry (3)

Prerequisite: CHEM 111A with a grade of "C" or better; CHEM 111B is recommended.

- ES P 300 Environmental Law and Policy (3)

Prerequisites: ESP 200 and upper division standing; or consent of instructor.

- ES P 400 Environmental Science and Policy Capstone Project (3)

Prerequisites: BIOL 350; ECON 306 or ECON 462 or ECON 463 or ECON 464 or CE 406; ESP 300; GEOG 473 or GEOG 481; GEOL 300; or consent of instructor.

- GEOL 300 Earth Systems and Global Change (3)

Prerequisites: GE Foundation requirement, upper division standing, and CHEM 100 or CHEM 111A or GEOL 102 or GEOL 106 with a grade of "C" or better.

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Take one of the following courses:

- GEOG 481 Geographic Information Science for Natural Sciences (4)

Prerequisites: Junior/Senior/Graduate standing; GEOG 140 or BIOL 153 or GEOL 102.

Or

- GEOG 473 Remote Sensing (4)

Prerequisites GEOG 200 (or equivalent) and GEOG 280 or consent of instructor.

...

Take 3 units of social science electives, chosen from the following:

GEOG 340, GEOG 355, GEOG 440, GEOG 446, GEOG 447, GEOG 448, GEOG 455, GEOG 458, GEOG 460; GEOG 464; HIST 482; ENGL 444; ASAM 350; SOC 350; WGSS 424; ECON 462, ECON 463, ECON 464.

Take 9 units of natural science electives, chosen from the following:

BIOL 312, BIOL 313, BIOL 316, BIOL 324, BIOL 342, BIOL 345, BIOL 353, BIOL 355, BIOL 412, BIOL 415, BIOL 419, BIOL 420, BIOL 421, BIOL 423, BIOL 424, BIOL 427, BIOL 439, BIOL 449, BIOL 450, BIOL 451, BIOL 452, BIOL 453, BIOL 454A, BIOL 454B, BIOL 455, BIOL 456, BIOL 457, BIOL 459, BIOL 496; GEOL 303, GEOL 339, GEOL 341, GEOL 445, GEOL 461, GEOL 465, GEOL 466, GEOL 474, GEOL 477.

Take an additional 3 units selected from the social science or natural science electives listed above if necessary to meet the university requirement for upper division units.

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List changes:

1. Add ECON 306 and GEOG 473 to list of ESP 400 prerequisites.
2. Add GEOG 473 as an alternative to GEOG 481.
3. Create a list of options for the Social Science elective of 3 units.
4. Create a list of Natural Science Options for 9 units
5. Add a "free elective" to reach the minimum required UD units which can be any course from the NS or SS lists.
6. Change Math and Physics requirements to remove "advisor consent" on options.

Roadmaps are required for all undergraduate degree programs with changes to be included in the formal certification. If the change does not affect the existing roadmap, please indicate no change.

Revised Roadmap Attached

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## **PROGRAM CHANGE Bachelor of Science in Earth Science**

### **CURRENT CATALOG TEXT**

Bachelor of Science in Earth Science (120 units)

The Earth Science program prepares students to understand the natural environment, earth resources, land and ocean use, pollution, geology of the sea floor, and other areas of critical importance to present and future world problems. Career-oriented interdisciplinary emphases are offered in Geohydrology/Environmental Geology, Engineering Geology, Exploration Geophysics, and Marine Geology/Oceanography. Earth Science majors must receive a grade of "C" or better in all courses required for the major. As outlined below, 120 units are required for each of the various emphases in Earth Science.

GEOL 420 (Geological Writing) is a required course for the major, and GEOL 450 (Summer Field) is required for some emphases of the major. Both courses are capstone General Education courses, and GEOL 420 also fulfills the GWAR requirement for a writing intensive course. Earth Science majors should take GEOL 420, and GEOL 450 if their emphasis includes it, and as many additional units as are necessary to fulfill all GE and GWAR requirements.

Lower Division:

Take all of the following:

- GEOL 102 General Geology (3)

Prerequisites/Corequisites: A course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent.

- GEOL 104 Geology Laboratory (1)

Prerequisites/Corequisites: A course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent, and concurrent or prior enrollment in GEOL 102.

- GEOL 240 Historical Geology (4)

Prerequisite: GEOL 106 or both GEOL 102, 104.

- GEOL 250 Introduction to Field Petrology and Geological Field Techniques (3)

Prerequisites: GEOL 102 with 104 or 105; or GEOL 106; all with grades of "C" or better. Corequisite: GEOL 240.

- CHEM 111A General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination . (Credit in Chem 101 does not substitute for a passing score on the Chemistry Placement Examination) and a "C" or better in MATH 113 or MATH 117 or MATH 119A or MATH 122. One year of high school chemistry is strongly recommended.

- MATH 122 Calculus I (4)

Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113, or a grade of "C" or better in MATH 117.

- MATH 123 Calculus II (4)

Prerequisite: A grade of "C" or better in MATH 122.

- PHYS 151 Mechanics and Heat (4)

Prerequisite/Corequisite: MATH 122.

- PHYS 152 Electricity and Magnetism (4)

Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

Additional required courses for the various emphases are listed below.

Upper Division:

Take all of the following:

- GEOL 322 Crystallography, Mineralogy and Optical Methods (5)

Prerequisites: GEOL 250; CHEM 101 or 111A.

- GEOL 350 Spring Field Geology (2)

Prerequisites: GEOL 250 and 443 with grades of "C" or better. Prerequisite/Corequisite: GEOL 433.

- GEOL 420 Geological Writing (3)

Prerequisites: GE Foundation completed, upper division standing, GEOL 102, GEOL 104, GEOL 240, GEOL 250; and at least 6 units of Geology courses at 300-level or above. Students must have scored 11 or higher on the GWAR Placement Examination or completed necessary portfolio course that is a prerequisite for a GWAR Writing Intensive Capstone.

- GEOL 428 Igneous and Metamorphic Petrology and Petrography (4)

Prerequisites: GEOL 322; CHEM 111A, B.

- GEOL 433 Structural Geology (4)

Prerequisites: GEOL 250, GEOL 322; PHYS 151.

- GEOL 443 Stratigraphy/Sedimentology (4)

Prerequisites: GEOL 240, GEOL 322.

- GEOL 460 Introduction to Geophysics (3)

Prerequisites: a grade of "C" or better in PHYS 151, PHYS 152; and MATH 123.

Additional required courses for the various emphases are listed below.

1. Geohydrology/Environmental Geology (119 units):

- CHEM 111B General Chemistry (5)

Prerequisite: CHEM 111A with a grade of "C" or better.

- GEOG 481 Geographic Information Science for Natural Sciences (4)

Prerequisites: Junior/Senior/Graduate standing; GEOG 140 or BIOL 153 or GEOL 102.

- GEOL 339 Introduction to Geomorphology (3)

Prerequisites: GEOL 102 with 104 or 105; or GEOL 106; or GEOG 140

- GEOL 450 Summer Field Geology (4) An integrative-learning GE capstone

Prerequisites: GEOL 350, GEOL 428, GEOL 433, and GEOL 443.

- GEOL 461 Introduction to Geochemistry (3)

Prerequisites: CHEM 111A,B and MATH 123.

- GEOL 474 Physical Hydrology (3)

Prerequisites: GEOL 102, MATH 122; PHYS 151.

- GEOL 477 Hydrogeology (4)

Prerequisites: GEOL 102, 104; CHEM 111B; PHYS 152; MATH 123.

## 2. Engineering Geology (119 units):

- C E 205 Analytical Mechanics I (Statics) (3)

Prerequisite: PHYS 151. Prerequisite/Corequisite: MATH 123.

- C E 345 Geotechnical Engineering I (3)

Corequisites: MAE 373; GEOL 370. Prerequisite: Consent of Department Undergraduate Advisor.

- C E 346 Geotechnical Engineering Laboratory (1)

Prerequisite: ENGL 100 or equivalent. Corequisite: CE 345.

- C E 445 Geotechnical Engineering II (3)

Prerequisites: CE 345, 346.

- MATH 224 Calculus III (4)

Prerequisites: A grade of "C" or better in MATH 123 or MATH 222CHEM 111B General Chemistry (5)

Prerequisite: CHEM 111A with a grade of "C" or better.

- GEOL 477 Hydrogeology (4)

Prerequisites: GEOL 102, 104; CHEM 111B; PHYS 152; MATH 123.

## 3. Exploration Geophysics (120 units):

- GEOL 462 Physics & Chemistry of Earth's Interior (3)

Prerequisites: GEOL 240, 428; PHYS 152.

- MATH 224 Calculus III (4)

Prerequisites: A grade of "C" or better in MATH 123 or MATH 222

- MATH 247 Introduction to Linear Algebra (3)

Prerequisite: MATH 123 or 222.

- MATH 370A Applied Mathematics I (3)

Prerequisites: MATH 123. Not open to Freshmen.

- PHYS 310 Analytic Mechanics I (3)

Prerequisite: PHYS 151. Corequisite: MATH 364A or 370A.

- PHYS 340A Electricity and Magnetism I (3)

Prerequisites: PHYS 152, 310. Prerequisite/Corequisite: MATH 370A or MATH 364A.

Take 5 units in consultation with undergraduate advisor

## 4. Marine Geology/Oceanography (120 units):

- CHEM 111B General Chemistry (5)

Prerequisite: CHEM 111A with a grade of "C" or better.

- GEOL 341 Paleontology and Biostratigraphy (4)

Prerequisites: GEOL 240 and life science GE course (B.1.a).

- MATH 224 Calculus III (4)

Prerequisites: A grade of "C" or better in MATH 123 or MATH 222

- GEOL 461 Introduction to Geochemistry (3)

Prerequisites: CHEM 111A,B and MATH 123.

- GEOL 465 Physical and Chemical Oceanography (3)

Prerequisites: CHEM 111B; PHYS 100B, and upper division standing in the College of Natural Sciences and Mathematics or Engineering.

- GEOL 466 Oceanography Lab and Ocean Studies (1)

Prerequisite/Corequisite: GEOL 465.

GEOL 496 Investigations in Geology and Other Earth Sciences (1-4)

Prerequisites: Senior standing in geology, earth science or related fields, completion of an upper division course in geology or earth science in the area of the topics chosen and approval of the topic chosen by the Geological Sciences faculty.

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## CHANGING INFORMATION

New Catalog Text:  
Bachelor of Science in Earth Science (120 units)

The bachelor of science degree in Earth Science is designed for those students considering a professional career in environmental, geotechnical, or engineering geology. The program also provides a fundamental education in geology that prepares students for graduate studies in the geological sciences. The required curriculum includes surficial geology courses (geomorphology, hydrology) not required as part of the B.S. in Geology. Students interested in pursuing a career in geophysics must consult the undergraduate advisor to construct an appropriate program.

Earth Science majors must receive a grade of "C" or better in all courses required for the major. A minimum of 120 units is required for the bachelor of science degree. Transfer students should attempt to fulfill, prior to transferring, the appropriate lower division curricular requirements as outlined below. In particular students should take prior to transferring the equivalent of GEOL 102 and 104, and at least three of the following four: CHEM 111A, CHEM 111B, MATH 122, and MATH 123.

GEOL 420 (Geological Writing) and GEOL 450 (Summer Field), both required courses for the major, are also capstone General Education courses, and GEOL 420 fulfills the GWAR requirement for a writing intensive course. Earth Science majors should take these two courses, and one other course to fulfill their upper division GE and GWAR requirements.

Lower Division:

Take all of the following:

GEOL 102 General Geology (3)

Prerequisites/Corequisites: A course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent.

GEOL 104 Geology Laboratory (1)

Prerequisites/Corequisites: A course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent, and concurrent or prior enrollment in GEOL 102.

GEOL 240 Historical Geology (4)

Prerequisite: GEOL 106 or both GEOL 102, 104.

GEOL 250 Introduction to Field Petrology and Geological Field Techniques (3)

Prerequisites: GEOL 102 with GEOL 104 or GEOL 105; or GEOL 106; all with grades of "C" or better.

Corequisite: GEOL 240.

CHEM 111A General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination. (Credit in Chem 101 does not substitute for a passing score on the Chemistry Placement Examination) and a "C" or better in MATH 113 or MATH 117 or 119A or 122. One year of high school chemistry is strongly recommended.

CHEM 111B General Chemistry (5)

Prerequisite: CHEM 111A with a grade of "C" or better.

MATH 122 Calculus I (4)

Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113, or a grade of "C" or better in MATH 117.

MATH 123 Calculus II (4)

Prerequisite: A grade of "C" or better in MATH 122.

PHYS 151 Mechanics and Heat (4)

Prerequisite/Corequisite: MATH 122.

PHYS 152 Electricity and Magnetism (4)

Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

Upper Division:

Take all of the following:

GEOL 322 Crystallography and Mineralogy (3)

Prerequisites: GEOL 250; CHEM 111A.

GEOL 339 Geomorphology (3)

Prerequisites: GEOL 102 with GEOL 104 or GEOL 105; or GEOL 106; or GEOG 140.

GEOL 350 Spring Field Geology (2)

Prerequisites: GEOL 250 and GEOL 443 with grades of "C" or better. Prerequisite/Corequisite: GEOL 433.

GEOL 420 Geological Writing (3)

Prerequisites: GE Foundation completed, upper division standing, GEOL 102, GEOL 104, GEOL 240, GEOL 250; and at least 6 units of Geology courses at 300-level or above. Students must have scored 11 or higher on the GWAR Placement Examination or completed necessary portfolio course that is a prerequisite for a GWAR Writing Intensive Capstone.

GEOL 428 Igneous and Metamorphic Petrology and Petrography (3)

Prerequisites: GEOL 322; CHEM 111A, B.

GEOL 433 Structural Geology (4)

Prerequisites: GEOL 250, GEOL 322; PHYS 151.

GEOL 443 Stratigraphy/Sedimentology (4)

Prerequisites: GEOL 240, GEOL 322.

GEOL 450 Summer Field Geology (4)

Prerequisites: GEOL 350, GEOL 428, GEOL 433, and GEOL 443.

GEOL 460 Introduction to Geophysics (3)

Prerequisites: PHYS 151, PHYS 152; and MATH 123.

GEOL 461 Introduction to Geochemistry (3)

Prerequisites: CHEM 111A,B and MATH 123.

GEOL 474 Physical Hydrology (3)

Prerequisites: GEOL 102, Math 122; PHYS 151.

In addition, nine units of electives (normally at upper division) approved in advance by the undergraduate advisor. At least one elective must be chosen from the following list:

477./577. Hydrogeology (4)

Prerequisites: GEOL 102, 104; CHEM 111B; PHYS 152; MATH 123. (Undergraduates enroll in GEOL 477;

444. Engineering Geology (3)

Prerequisites: GEOL 250, GEOL 433; MATH 122, MATH 123; PHYS 151, PHYS 152.

MATH 370A. Applied Mathematics I (3)

Prerequisites: MATH 123. Not open to Freshmen.

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List changes: *(all changes must be delineated in the text box below):*

- Total units now 119 to 120
- Opening paragraph revised
- Old degree had four (4) emphases, new degree streamlined into one pathway.
- Old GEOL 322 Crystallography, Mineralogy and Optical Methods (5 units) being split into two classes GEOL 322 Crystallography and Mineralogy (3 units) and GEOL 326 Optical Mineralogy (2 units). Earth Science BS students take only GEOL 322. Geology BS students take GEOL 322 and GEOL 326.
- Old GEOL 428 Igneous and Metamorphic Petrology and Petrography (4 units) being split into two classes GEOL 428 Igneous and Metamorphic Petrology and Petrography (3 units) and GEOL 426 Igneous Metamorphic Petrography Laboratory (1 unit). Earth Science BS students take only GEOL 428. Geology BS students take GEOL 428 and GEOL 426.
- Added GEOL 339 Geomorphology (3) and GEOL 474 Physical Hydrology (3 units)
- Added CHEM 111B General Chemistry (5), GEOL 450 Summer Field Geology (4) and GEOL 461 Introduction to Geochemistry (3 units)—these courses had been required by some emphases but not all.
- Added nine (9) elective units (normally at upper division) approved in advance by the undergraduate advisor. One elective must be selected from GEOL 477 Hydrogeology (4 units) or GEOL 444 Engineering Geology (3 units) or MATH 370A Applied Math (3 units). If Earth Science BS students take GEOL 477, the degree total equals 120 units, otherwise Earth Science BS students degree total is 119 units.

Revised Roadmap Attached

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**PROGRAM CHANGE** Bachelor of Science in Geology

**CURRENT CATALOG TEXT**

**Bachelor of Science in Geology (120 units)**

The Bachelor of Science degree program provides training in the geological sciences for those planning to  
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pursue professional careers in industry or enter a graduate degree program. Students explore fundamental geological processes, cultivate skills in integrative three-dimensional geological thinking, and engage in laboratory and field experience, and pursue interests in the many sub disciplines of the geological sciences.

Geology majors must receive a grade of "C" or better in all courses required for the major. A minimum of 120 units is required for the Bachelor of Science degree. Transfer students should attempt to fulfill, prior to transferring, the appropriate lower division curricular requirements as outlined below. In particular students should take prior to transferring the equivalent of GEOL102 and 104, and at least three of the following four: CHEM 111A, 111B, MATH 122, and 123.

GEOL 420 (Geological Writing) and GEOL 450 (Summer Field), both required courses for the major, are also capstone General Education courses, and GEOL 420 fulfills the GEAR requirement for a writing intensive course. Geology majors should take these two courses, and one other course to fulfill their upper division GE and GEAR requirements.

Lower Division:

*Take all of the following:*

- GEOL 102 General Geology (3)  
Prerequisites/Corequisites: A course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent.
- GEOL 104 Geology Laboratory (1)  
Prerequisites/Corequisites: A course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent, and concurrent or prior enrollment in GEOL 102.
- GEOL 240 Historical Geology (4)  
Prerequisite: GEOL 106 or both GEOL 102, GEOL 104.
- GEOL 250 Introduction to Field Petrology and Geological Field Techniques (3)  
Prerequisites: GEOL 102 with GEOL 104 or GEOL 105; or GEOL 106; all with grades of "C" or better.  
Corequisite: GEOL 240.
- CHEM 111A General Chemistry (5)  
Prerequisites: A passing score on the Chemistry Placement Examination. (Credit in Chem 101 does not substitute for a passing score on the Chemistry Placement Examination) and a "C" or better in MATH 113 or MATH 117 or MATH 119A or MATH 122. One year of high school chemistry is strongly recommended. (Recommended for students who intend to pursue careers in science or engineering).
- CHEM 111B General Chemistry (5)  
Prerequisite: CHEM 111A with a grade of "C" or better.
- MATH 122 Calculus I (4)  
Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113, or a grade of "C" or better in MATH 117.
- MATH 123 Calculus II (4)  
Prerequisite: A grade of "C" or better in MATH 122.
- PHYS 151 Mechanics and Heat (4)  
Prerequisite/Corequisite: MATH 122.
- PHYS 152 Electricity and Magnetism (4)  
Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

Upper Division:

*Take all of the following:*

- GEOL 322 Crystallography, Mineralogy and Optical Methods (5)  
Prerequisites: GEOL 250; CHEM 101 or CHEM 111A.
- GEOL 341 Paleontology and Biostratigraphy (4)  
Prerequisites: GEOL 240 and BIOL 200.
- GEOL 350 Spring Field Geology (2)  
Prerequisites: GEOL 250 and GEOL 443 with grades of "C" or better. Prerequisite/Corequisite: GEOL 433.
- GEOL 420 Geological Writing (3) A writing-intensive GE capstone.  
Prerequisites: GEOL 102, GEOL 104, GEOL 240, GEOL 250; and at least 6 units of geology courses at 300 level or higher. Must have met prior GEAR requirements.
- GEOL 428 Igneous and Metamorphic Petrology and Petrography (4)  
Prerequisites: GEOL 322; CHEM 111A, B.
- GEOL 433 Structural Geology (4)  
Prerequisites: GEOL 250, GEOL 322; PHYS 151.
- GEOL 443 Stratigraphy/Sedimentology (4)  
Prerequisites: GEOL 240, GEOL 322.
- GEOL 450 Summer Field Geology (4) An integrative-learning GE capstone  
Prerequisites: GEOL 350, GEOL 428, GEOL 433, and GEOL 443.

- GEOL 460 Introduction to Geophysics (3)  
Prerequisites: PHYS 151, PHYS 152; MATH 123; and GEOL 273.
- GEOL 461 Introduction to Geochemistry (3)  
Prerequisites: CHEM 111A,B and MATH 123.

In addition, nine units of electives (normally at upper division) approved in advance by the undergraduate advisor.

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## CHANGING INFORMATION

New Catalog Text:

### Bachelor of Science in Geology (120 units)

The Bachelor of Science degree program provides training in the geological sciences for those planning to pursue professional careers in industry or enter a graduate degree program. Students explore fundamental geological processes, cultivate skills in integrative three-dimensional geological thinking, and engage in laboratory and field experience, and pursue interests in the many sub disciplines of the geological sciences. Students interested in pursuing a career in geophysics must consult the undergraduate advisor to construct an appropriate program.

Geology majors must receive a grade of "C" or better in all courses required for the major. A minimum of 120 units is required for the Bachelor of Science degree. Transfer students should attempt to fulfill, prior to transferring, the appropriate lower division curricular requirements as outlined below. In particular students should take prior to transferring the equivalent of GEOL102 and GEOL 104, and at least three of the following four: CHEM 111A, CHEM 111B, MATH 122, and MATH 123.

GEOL 420 (Geological Writing) and GEOL 450 (Summer Field), both required courses for the major, are also capstone General Education courses, and GEOL 420 fulfills the GVAR requirement for a writing intensive course. Geology majors should take these two courses, and one other course to fulfill their upper division GE and GVAR requirements.

Lower Division:

*Take all of the following:*

- GEOL 102 General Geology (3)  
Prerequisites/Corequisites: A course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent.
- GEOL 104 Geology Laboratory (1)  
Prerequisites/Corequisites: A course that fulfills the A.1 GE requirement and three years of high school mathematics including algebra, geometry, and intermediate algebra or the equivalent, and concurrent or prior enrollment in GEOL 102.
- GEOL 240 Historical Geology (4)  
Prerequisite: GEOL 106 or both GEOL 102, 104.
- GEOL 250 Introduction to Field Petrology and Geological Field Techniques (3)  
Prerequisites: GEOL 102 with GEOL 104 or GEOL 105; or GEOL 106; all with grades of "C" or better.  
Corequisite: GEOL 240.
- CHEM 111A General Chemistry (5)  
Prerequisites: A passing score on the Chemistry Placement Examination. (Credit in CHEM 101 does not substitute for a passing score on the Chemistry Placement Examination) and a "C" or better in MATH 113 or MATH 117 or MATH 119A or MATH 122. One year of high school chemistry is strongly recommended. (Recommended for students who intend to pursue careers in science or engineering).
- CHEM 111B General Chemistry (5)  
Prerequisite: CHEM 111A with a grade of "C" or better.
- MATH 122 Calculus I (4)  
Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113, or a grade of "C" or better in MATH 117.
- MATH 123 Calculus II (4)  
Prerequisite: A grade of "C" or better in MATH 122.
- PHYS 151 Mechanics and Heat (4)  
Prerequisite/Corequisite: MATH 122.
- PHYS 152 Electricity and Magnetism (4)  
Prerequisite: PHYS 151; Prerequisite/Corequisite: MATH 123.

Upper Division:

*Take all of the following:*

- GEOL 322 Crystallography and Mineralogy (3)  
Prerequisites: GEOL 250; CHEM 111A.
- GEOL 326 Optical Mineralogy (2)  
Prerequisite: GEOL 250; A passing score on the Chemistry Placement Examination or CHEM 111A;  
Prerequisite/Corequisite: GEOL 322

GEOL 322 and GEOL 326 must be taken concurrently unless the undergraduate advisor approves otherwise.

- GEOL 341 Paleontology and Biostratigraphy (4)  
Prerequisites: GEOL 240 and BIOL 200.
- GEOL 350 Spring Field Geology (2)  
Prerequisites: GEOL 250 and 443 with grades of "C" or better. Prerequisite/Corequisite: GEOL 433.
- GEOL 420 Geological Writing (3) A writing-intensive GE capstone.  
Prerequisites: GEOL 102, GEOL 104, GEOL 240, GEOL 250; and at least 6 units of geology courses at 300 level or higher. Must have met prior GWAR requirements.
- GEOL 428 Igneous and Metamorphic Petrology and Petrography (3)  
Prerequisites: GEOL 322; CHEM 111A, B.
- GEOL 426 Igneous Metamorphic Petrography Laboratory (1)  
Prerequisites: GEOL 322 and GEOL 326  
Prerequisite/Corequisite: GEOL 428.

GEOL 428 and GEOL 426 must be taken concurrently unless the undergraduate advisor approves otherwise.

- GEOL 433 Structural Geology (4)  
Prerequisites: GEOL 250, GEOL 322; PHYS 151.
- GEOL 443 Stratigraphy/Sedimentology (4)  
Prerequisites: GEOL 240, GEOL 322.
- GEOL 450 Summer Field Geology (4) An integrative-learning GE capstone  
Prerequisites: GEOL 350, GEOL 428, GEOL 433, and GEOL 443.
- GEOL 460 Introduction to Geophysics (3)  
Prerequisites: PHYS 151, 152; MATH 123; and GEOL 273.
- GEOL 461 Introduction to Geochemistry (3)  
Prerequisites: CHEM 111A,B and MATH 123.

In addition, nine units of electives (normally at upper division) approved in advance by the undergraduate advisor.

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List changes:

Opening paragraph revised by adding sentence, "Students interested in pursuing a career in geophysics must consult the undergraduate advisor to construct an appropriate program."

GEOL 322 and 326 replacing GEOL 322 alone. Same content same total number of units. This change is necessitated by changes in the Earth Science program.

GEOL 428 and GEOL 426 replace GEOL 428 alone. Same content same total number of units. This change is necessitated by changes in the Earth Science program.

Revised Roadmap Attached

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## **COURSE – CHANGE – LOWER DIVISION**

Current Course Information: Math 115 Calculus for Business 3 units @ C-5 and 1 unit @ C-3

### **Items Changing**

Units:3

Course Description (40 words maximum): Functions, derivatives, optimization problems, graphs, partial derivatives. Applications to business and economics. Emphasis on problem-solving techniques.  
Classification: 2 units @ C-1 and 1 unit @ C-8  
Contact Hours Statement: (Lecture 2 hrs., Activity 2 hrs)

**ARTICULATION** – Units decreasing. No articulation review necessary

*(For a new articulation request or if a review is required, staple a standard course outline to this form.)*

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**COURSE – CHANGE – LOWER DIVISION**

Current Course Information: MATH 297 Directed Study 1.0 unit to 3.0 units (1-3 units @ S2)  
Directed Study

**Items Changing**

Units: 1.0 unit to 6.0 units

**ARTICULATION** – Minimal change. No articulation review necessary.

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**PROGRAM CHANGE** Bachelor of Science in Mathematics

**CURRENT CATALOG TEXT**

Upper Division:

A minimum of 30 units of approved courses selected in consultation with a major advisor, to include the following:

(list of specific courses)

(may not include MATH 303, MATH 370A, MATH 370B, or MATH 409)

To allow flexibility, only 18 of the required 30 units are specified. Students should choose the remaining 12 units after discussing career goals and interests with an advisor.

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**CHANGING INFORMATION**

New Catalog Text:

Upper Division:

Take a minimum of 30 units of MATH or STAT courses to include the following (but not MATH 303, MATH 309, MATH 370A, MATH 370B, or MATH 409):

(list of specific course)

To allow flexibility, only 18 of the required 30 units are specified. Students should choose the remaining 12 units after discussing career goals and interests with an advisor.

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List changes:

Moves the list of courses that do not count for this major from the end to the beginning, and clarifies language. Improves typographical presentation, and makes clear that upper division STAT courses may count for this major (which has always been the case). Adds MATH 309 to the list of courses that do not count for the major (contingent on new course MATH 309 being approved). This is a minor change.

Roadmaps are required for all undergraduate degree programs with changes to be included in the formal certification. If the change does not affect the existing roadmap, please indicate no change.

No Revised Roadmap Necessary

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**PROGRAM CHANGE** Bachelor of Science in Mathematics - Option in Mathematics Education

## CURRENT CATALOG TEXT

### Single Subject Teaching Credential Mathematics

In addition to meeting the subject matter competence requirement for the Teaching Credential, prospective Math teachers are also required to complete 45 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as a post-baccalaureate student. Refer to the Single Subject Teacher Education section of this catalog or the Single Subject Credential Program website ([www.ced.csulb.edu/single-subject](http://www.ced.csulb.edu/single-subject)) for a description of the professional preparation requirements, courses, and application procedures.

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## CHANGING INFORMATION

### New Catalog Text:

#### Single Subject Teaching Credential Mathematics

Subject matter competence for the Single Subject Teaching Credential may be demonstrated by completion of the Option in Mathematics Education with (1) a 2.75 GPA or higher in required MATH, MTED, and STAT courses, and (2) no grade lower than a C in those courses. There are alternative means of demonstrating subject matter competence; consult with the Single Subject Mathematics Education Advisor for specific academic advisement. Note that the above demonstration of subject matter competence is required for a Teaching Credential, but is not a requirement of the BS degree.

In addition to meeting the subject matter competence requirement for the Teaching Credential, prospective Math teachers are also required to complete 45 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as a post-baccalaureate student. Refer to the Single Subject Teacher Education section of this catalog or the Single Subject Credential Program website ([www.ced.csulb.edu/single-subject](http://www.ced.csulb.edu/single-subject)) for a description of the professional preparation requirements, courses, and application procedures.

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### List changes:

In the "Single Subject Teaching Credential Mathematics" section of the catalog section "Bachelor of Science in Mathematics - Option in Mathematics Education", a new paragraph has been added. Previously there was one paragraph of text. That paragraph is now the second paragraph and is otherwise unchanged. The first paragraph is new and communicates an existing policy.

No Revised Roadmap Necessary

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## PROGRAM CHANGE BS in Mathematics - Option in Statistics (MATHBS04)

## CURRENT CATALOG TEXT

Take a minimum of 34 units of MATH or STAT courses to include the following (but not MATH 303, MATH 370A or MATH 370B):

- MATH 323 Introduction to Numerical Analysis (4)

Prerequisites: MATH 224, and a course in computer programming.

- MATH 361A Introduction to Mathematical Analysis I (3)

Prerequisites: MATH 224, and MATH 233 or MATH 247.

- STAT 381 Mathematical Statistics (3)

Prerequisites: MATH 247 and MATH 380.

- STAT 410 Regression Analysis (3)

Prerequisite: STAT 381.

- STAT 450 Multivariate Statistical Analysis (3)

Prerequisite: STAT 381; Prerequisite/Corequisite STAT 410.

- STAT 475 Data Analysis with SAS (3)

Prerequisite: STAT 381 or consent of instructor.

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## CHANGING INFORMATION

New Catalog Text:

Take a minimum of 34 units of MATH or STAT courses to include the following (but not MATH 303, MATH 370A or MATH 370B):

- MATH 323 Introduction to Numerical Analysis (4)

Prerequisites: MATH 224, and a course in computer programming.

- MATH 361A Introduction to Mathematical Analysis I (3)

Prerequisites: MATH 224, and MATH 233 or MATH 247.

- MATH 380 Probability and Statistics (3)

Prerequisite: MATH 224.

- STAT 381 Mathematical Statistics (3)

Prerequisites: MATH 247 and MATH 380.

- STAT 410 Regression Analysis (3)

Prerequisite: STAT 381.

- STAT 450 Multivariate Statistical Analysis (3)

Prerequisite: STAT 381; Prerequisite/Corequisite STAT 410.

- STAT 475 Data Analysis with SAS (3)

Prerequisite: STAT 381 or consent of instructor.

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List changes:

Add MATH 380 to list of required courses. (Notes: this course has always been required, but was cross-listed with STAT 380 and for some reason the major requirement was listed as STAT 380. This is a restoration of the situation before STAT 380 was dropped from the catalog. The roadmaps already have MATH 380 so no revision is needed.

No Revised Roadmap Necessary

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## PROGRAM – CHANGE Bachelor of Science in Microbiology

### CURRENT CATALOG TEXT

Bachelor of Science in Microbiology (120 units)

Microbiology is the study of microorganisms and their interactions with humans, other organisms, and the environment. This degree, with the inclusion of appropriate classes, may be utilized by pre-professional students who are preparing for medical, dental, pharmacy, and veterinary school. There is a core of courses and specific programs can be arranged by counseling with microbiology advisors. This undergraduate major is recognized by the American Society for Microbiology as meeting their core curriculum for the baccalaureate degree program in microbiology. This major requires 83-84 units, of which 37-38 are in the lower division and 46 are in upper division. All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, and 3. all courses in the major.

Take a minimum of 11 elective units chosen from the following:

BIOL 473, 477; MICR 320L, MICR 322, MICR 325, MICR 355L, MICR 416, MICR 423, MICR 429, MICR

430L, MICR 473, MICR 490, and MICR 495. Students may use MICR 496 towards the additional units but only with prior permission of the advisor for this degree. Those students seeking a career as a Clinical Laboratory Scientist/Medical Technologist are encouraged to take MICR 320L, MICR 416, MICR 423 and MICR 430L.

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**CHANGING INFORMATION** (copy the text from the box above and then make the necessary edits):

New Catalog Text:

Bachelor of Science in Microbiology (120 units)

Microbiology is the study of microorganisms and their interactions with humans, other organisms, and the environment. This degree is appropriate for those contemplating graduate work in microbiology or, with the inclusion of appropriate classes, may be utilized by pre-professional students. Students in this option might also want to pursue the Certificate in Biotechnology described elsewhere in this Catalog. This undergraduate major is recognized by the American Society for Microbiology as meeting their core curriculum for the baccalaureate degree program in microbiology. This major requires 83-84 units in the major, of which 37-38 are lower division and 46 are upper division. All students must achieve at least a 2.0 grade-point average in each of the following: 1. the entire college record, 2. all units attempted at CSULB, and 3. all courses in the major. In addition students must receive a "C" or better in all upper division major courses.

Take a minimum of 11 elective units chosen from the following:

BIOL 473, BIOL 474, BIOL 477; MICR 320L, MICR 322, MICR 325, MICR 355L, MICR 415, MICR 416, MICR 423, MICR 429, MICR 430L, MICR 473, MICR 490, and MICR 495. Students may use MICR 496 towards the additional units but only with prior permission of the advisor for this degree. Those students seeking a career as a Clinical Laboratory Scientist/Medical Technologist are encouraged to take MICR 320L, MICR 416, MICR 423 and MICR 430L.

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List changes:

1. Require students to have a "C" or better in all upper division major courses.
2. General rewording of introductory paragraph.
3. Add BIOL 474 and MICR 415 to the list of electives.

No Revised Roadmap Necessary  
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#### **COURSE – NEW – LOWER DIVISION**

NSCI 191. Selected Topics in Natural Sciences and Mathematics (1-3 units)  
Special Topics Nat Sci Math

Prerequisite: Lower division pre-major in Biology, Biochemistry, Chemistry, Geology, Marine Biology, Microbiology, or Physics

Course Description: Specific topics of current interest in the natural sciences. Letter grade only (A-F). (Lecture 1 hr/unit). May be repeated to a maximum of 3 units with different topics in different semesters. Topics will be announced in the Schedule of Classes.

Letter Grading only (A-F)

May be repeated to a maximum of 3 units, with different topics in different semesters.

Classification: 1-3 units @ C-02

Articulation desired.

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#### **COURSE – NEW – LOWER DIVISION**

NSCI 296 - Introduction to Research Methods (3 units)  
Intro Research Methods

Prerequisite: Sophomore standing and pre-major in Biology, Biochemistry, Chemistry, Geology, Marine Biology, Microbiology, or Physics.

Course Description: Course introduces student to principles of experimentation, hypotheses formation and testing, measurement, naturalistic observation, correlation studies, analysis, and reporting common across the biomedical and behavioral sciences. Course will focus on various experimental paradigms and techniques used in laboratory-based research. Letter grade only (A-F). (Lecture 3 hours).

Letter grading only (A-F).

3 units @ C-02

No articulation. Course does not meet goals.

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**PROGRAM CHANGE PHYSBA01 Bachelor of Arts in Physics**

**CURRENT CATALOG TEXT – INCLUDE ONLY THE INFORMATION THAT IS CHANGING**

Requirements

Lower Division:

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**CHANGING INFORMATION**

New Catalog Text:

Requirements:

All required courses must be passed with a grade of "C" or better.

Lower Division:

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List changes:

Notify students that a grade of "C" or better is required for courses counting toward the BA. This is not a change in policy, but is "truth in advertising" for students

No Revised Roadmap Necessary

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**PROGRAM CHANGE PHYSBS01 Bachelor of Science in Physics**

**CURRENT CATALOG TEXT**

Requirements

Lower Division:

Take all of the following courses:

PHYS 151 Mechanics and Heat (4)

Prerequisite/Corequisite: MATH 122.

PHYS 152 Electricity and Magnetism (4)

Prerequisite: PHYS 151;

Prerequisite/Corequisite: MATH 123.

PHYS 254 Modern Physics and Light (3)

Prerequisite: PHYS 152 or EE 210;

Prerequisite/Corequisite: MATH 224.  
 PHYS 255 Laboratory on Light & Modern Physics (1)  
 Prerequisite/Corequisite: PHYS 254.  
 CHEM 111A General Chemistry (5)  
 Prerequisites: A passing score on the Chemistry Placement Examination.  
 Corequisite: MATH 109 or higher.  
 CHEM 111B General Chemistry (5)  
 Prerequisites: CHEM 111A and MATH 113 or MATH 115 or MATH 117 or MATH 119A or MATH 122 all with a grade of "C" or better.  
 MATH 122 Calculus I (4)  
 Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.  
 MATH 123 Calculus II (4)  
 Prerequisite: A grade of "C" or better in MATH 122.  
 MATH 224 Calculus III (4)  
 Prerequisite: A grade of "C" or better in MATH 123 or MATH 222.  
 MATH 247 Introduction to Linear Algebra (3)  
 Prerequisite: MATH 123 or MATH 222.  
 Select one from the following:

BIOL 200 General Biology (4)  
 Prerequisite: GE Foundation requirements.  
 BIOL 211 Introduction to Evolution and Diversity (4)  
 Prerequisite/Corequisite: CHEM 111A with a grade of "C" or better.  
 NOTE: BIOL 111, BIOL 111L are required if courses were taken prior to catalog year 2010-11.

Upper Division:

Take the following courses:

ENGL 317 Technical Writing (3)  
 Prerequisites: GE Foundation requirements, upper-division standing, and a previous composition course, i.e., ENGL 100, ENGL 101, ENGL 102, ENGL 300, or equivalents.  
 MATH 364A Ordinary Differential Equations I (3)  
 Prerequisites: MATH 222 or MATH 224, and prerequisite or corequisite MATH 247.  
 Take one other upper-division mathematics course

Take all of the following:

PHYS 310 Analytic Mechanics (3)  
 Prerequisite: PHYS 151. Corequisite: MATH 364A or MATH 370A.  
 PHYS 320 Thermodynamics (3)  
 Prerequisite: PHYS 152. Prerequisite/Corequisite, PHYS 254.  
 PHYS 340A Electricity and Magnetism I (3)  
 Prerequisites: PHYS 152, PHYS 310. Prerequisite/Corequisite: MATH 370A or MATH 364A.  
 PHYS 340B Electricity and Magnetism II (3)  
 Prerequisite: PHYS 340A.  
 PHYS 350 Modern Physics (3)  
 Prerequisites: PHYS 310; MATH 370A or MATH 364A.  
 PHYS 360 Physics with Symbolic Algebra Software (3)  
 Prerequisite: PHYS 254. Prerequisite/Corerequisite: MATH 247.  
 PHYS 380 Electronics (4)  
 Prerequisite: PHYS 152.  
 PHYS 450 Quantum Physics I (3)  
 Prerequisites: PHYS 310, PHYS 340A, PHYS 350.  
 Take one laboratory course chosen from:

PHYS 445, PHYS 446, PHYS 476 and PHYS 480  
 The remaining (up to 8) units are to be chosen from any upper-division physics courses.

## CHANGING INFORMATION

New Catalog Text:  
Requirements

Lower Division:

Take all of the following courses:

PHYS 151 Mechanics and Heat (4)

Prerequisite/Corequisite: MATH 122.

PHYS 152 Electricity and Magnetism (4)

Prerequisite: PHYS 151;

Prerequisite/Corequisite: MATH 123.

PHYS 254 Modern Physics and Light (3)

Prerequisite: PHYS 152 or EE 210;

Prerequisite/Corequisite: MATH 224.

PHYS 255 Laboratory on Light & Modern Physics (1)

Prerequisite/Corequisite: PHYS 254.

MATH 122 Calculus I (4)

Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and MATH 113.

MATH 123 Calculus II (4)

Prerequisite: A grade of "C" or better in MATH 122.

MATH 224 Calculus III (4)

Prerequisite: A grade of "C" or better in MATH 123 or MATH 222.

MATH 247 Introduction to Linear Algebra (3)

Prerequisite: MATH 123 or MATH 222.

Select one from the following three courses:

BIOL 200 General Biology (4)

Prerequisite: GE Foundation requirements.

or

BIOL 211 Introduction to Evolution and Diversity (4)

Prerequisite/Corequisite: CHEM 111A with a grade of "C" or better.

NOTE: BIOL 111, BIOL 111L are required if courses were taken prior to catalog year 2010-11.

or

CHEM 111A General Chemistry (5)

Prerequisites: A passing score on the Chemistry Placement Examination.

Corequisite: MATH 109 or higher.

Upper Division:

Take the following courses:

MATH 364A Ordinary Differential Equations I (3)

Prerequisites: MATH 222 or MATH 224, and prerequisite or corequisite MATH 247.

Take one other upper-division mathematics course

Note: students interested in completing a minor in mathematics or applied mathematics should consult the appropriate advisor.

Take all of the following:

PHYS 310 Analytic Mechanics (3)

Prerequisite: PHYS 151. Corequisite: MATH 364A or MATH 370A.

PHYS 320 Thermodynamics (3)

Prerequisite: PHYS 152. Prerequisite/Corequisite, PHYS 254.

PHYS 340A Electricity and Magnetism I (3)

Prerequisites: PHYS 152, PHYS 310. Prerequisite/Corequisite: MATH 370A or MATH 364A.

PHYS 340B Electricity and Magnetism II (3)

Prerequisite: PHYS 340A.

PHYS 350 Modern Physics (3)

Prerequisites: PHYS 310; MATH 370A or MATH 364A.

PHYS 360 Physics with Symbolic Algebra Software (3)

Prerequisite: PHYS 254. Prerequisite/Corerequisite: MATH 247.

PHYS 380 Electronics (4)

Prerequisite: PHYS 152.

PHYS 450 Quantum Physics I (3)

Prerequisites: PHYS 310, PHYS 340A, PHYS 350.

Take one laboratory course chosen from:

PHYS 445, PHYS 446, PHYS 476 and PHYS 480

6 units of upper-division physics electives.

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List changes:

Remove requirement for CHEM 111A/B. Change lower division science breadth to give students a choice between BIOL 200, BIOL 211, or CHEM 111A. Remove ENGL 317. Reduce upper-division elective units from 8 to 6.

Revised Roadmap Attached

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#### **COURSE – NEW – LOWER DIVISION**

SCED 100. An Introduction to Scientific and Spatial Reasoning (3 units) 3 units@ C3

Intro to Sci and Spatial Reas

Prerequisite: None.

Corequisites: None.

Course Description: Students develop essential and critical thinking skills that help them 'think outside of the box' and recognize the role of spatial reasoning, perception and creativity in the practices of science. Letter grade or credit/no credit. The course may not be repeated. (3 hours activity.)

No articulation. Course does not meet goals.

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END.