

Last updated 05/17/12. The information in this guide is based on articulation agreements for 2011-12 and is subject to change. The universities may require additional lower division courses beyond those listed or articulated. Please review a current catalog of the campus of your choice and consult with a counselor. The most recent articulation information is available at [www.assist.org](http://www.assist.org).

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In addition to the universities listed below, environmental programs are offered at CSU Bakersfield, Channel Islands, Monterey Bay, Pomona, San Bernardino, San Diego, San Luis Obispo and UC Irvine, UCLA, and Riverside. For more information, refer to the campus catalogs or [www.assist.org](http://www.assist.org).

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### **CSU CHICO**

#### **B.S. in Environmental Science**

**Core:** BIO 2.2+2.3; CHEM 1A,1B or 4A,4B; GEOL 1/1L; PHYS 20/20L+21/21L or select two from PHYS 40 or 42 or 41+43  
(Students planning to attend graduate school should consider completing PHYS 40, 41, 42, & 43)

**Applied Ecology and Earth Resource Science Options:** Add MATH 8A

**Atmospheric Science and Hydrologic Science Options:** Add MATH 1A, 1B

*The Environmental Sciences major has modifications to GE requirements. Please consult the current CSU Chico catalog for details.*

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### **CSU EAST BAY**

#### **B.S. in Environmental Science**

**Options:** Life Science, Physical Science, or Environmental Systems and Resource Management

**Required lower division courses:** BIO 2.2+2.3; CHEM 1A+1B or 4A+4B; GEOL 1/1L; GIS 40; MATH 1A;  
PHYS 20/20L+21/21L

#### **B.A. in Environmental Studies**

**Options:** Environment and Society, Physical Environment, Sustainable Resource Management

**Required lower division courses:** BIO 10; CHEM 42 or 60; ECON 1B; ENVS 12; GEOG 4; MATH 15

**Electives:** Take four courses distributed across at least two departments, in one of the options. See the catalog for specific courses [www.csueastbay.edu/ecat](http://www.csueastbay.edu/ecat).

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### **CSU FRESNO**

#### **B.S. in Environmental Sciences**

**Lower Division Requirements:** BIO 2.1+2.2+2.3; CHEM 1A,1B or 4A,4B; MATH 1A; MATH 1B or 15;  
PHYS 20/20L+21/21L or 40+41+42+43

**Lower Division Elective:** CHEM 8

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### **HUMBOLDT STATE UNIVERSITY**

#### **B.S. in Environmental Science**

**Core:** ECON 12; ENVS 12; ENVST 40; NRM 12

**Ecological Restoration Option:** Add AGRI 60; BIO 2.1, 2.3; CHEM 42+8 or 1A+8; MATH 15

**Energy & Climate Option:** Add BIO 2.1 or 2.3; BIO 25; CHEM 42+8 or 1A+8 or 1A+1B or 4A+4B; MATH 8A; MATH 15;  
PHYS 20/20L, 21/21L

**Environmental Policy Option:** Add BIO 2.1 or 2.3; CHEM 42+8 or 1A+ 8; MATH 27 or 25+58; MATH 15

*All courses in the major must be completed with a "C-" or better.*

*All chemistry courses must be taken for a letter grade of "C" or better.*

## **CSU LONG BEACH**

### **B.A. in Environmental Science and Policy**

**Required lower division courses:** BIO 10; CHEM 1A or 4A or 60; ECON 1A, 1B; GEOL 1/1L; MATH 1A or 8A or 16; GEOG 4 or any introductory Environmental Science or Studies course

### **B.S. in Environmental Science and Policy**

**Required lower division courses:** BIO 2.1+2.2+2.3; CHEM 1A,1B or 4A,4B; GEOL 1/1L; MATH 1A,1B or 8A,8B

18 units of electives are required, 8 of which must be upper division or approved by the advisor. Other units may be selected from the following approved courses: ANTHRO 3, CHEM 5, MICRO 5, 60, PHYS 20/20L+21/21L or 40+42.

**Natural Science track:** Requires PHYS 20/20L+21/21L or 40+42. 12 of the elective units must be in Biology, Microbiology, Environmental Science and Policy, Geology, Chemistry, Chemical Engineering, Mathematics and Statistics.

**Social Science track:** 12 of the elective units must be in Anthropology, Economics, Geography, Mathematics and Statistics.

Admission to either degree program is competitive. For more information see [www.csulb.edu/depts/enrollment/admissions/transfers.html](http://www.csulb.edu/depts/enrollment/admissions/transfers.html).

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## **CSU SACRAMENTO**

### **B.A. in Environmental Studies**

**Required lower division courses:** BIO 2.1+2.2+2.3; BIO 12; CHEM 1A or 4A; ECON 1B; GEOG 4 or GEOL 1

Students are required to maintain a portfolio containing samples of their work. See an Environmental Studies advisor for more details about the portfolio.

*A minimum "C-" grade is required for all courses for the Environmental Studies major.*

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## **SAN FRANCISCO STATE UNIVERSITY**

### **B.A. or B.S. in Environmental Studies – IMPACTED majors**

**Required lower division courses:** BIO 2.1+2.2+2.3; CHEM 1A or 4A; ANTHRO 2 or GEOG 7; GEOG 4

**B.S. Earth System Science concentration:** Add CHEM 1B or 4B; GEOL 1/1L; MATH 1A; MATH 1B or 15; PHYS 20/20L, 21/21L; CHEM 12A is an elective

For both degrees, ENGL 1B or 5 fulfills a prerequisite to the upper division writing requirement for graduation.

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## **SAN JOSE STATE UNIVERSITY**

### **B.A. in Environmental Studies – IMPACTED major**

**Required lower division courses:** CHEM 42 or 1A+8; ECON 1B; ENVS 12; MATH 15

### **B.S. in Environmental Studies – IMPACTED major**

#### **Concentrations in Energy, Environmental Impact Assessment, or Environmental Restoration & Resource Management**

**Required lower division courses:** BIO 2.1+2.2+2.3; one course from CHEM 1A, 1B, 4A, or 4B; ECON 1B; ENVS 12; MATH 15; PHYS 20/20L

For all majors, ENGL 1B or 5 or PHIL 5 or SPCH 9 = prerequisite for upper division writing. SJSU requires 2 units of PE in at least two different activities for graduation.

For the B.S. Environmental Studies – Preparation for Teaching (Multiple Subjects), see [www.assist.org](http://www.assist.org).

## **SONOMA STATE UNIVERSITY**

### **B.A. in Environmental Studies – IMPACTED major (2.75 overall GPA required for 2012-13 admission)**

Transfer students from SRJC to ENSP at SSU are encouraged to take: CS 5; ENVS 12; GEOG 4\*; SOCS 12\*

GE recommendations for all transfer students from SRJC to ENSP: (C2) SPCH 2; (D) ECON 1A or HIST 17.2

**Environmental Conservation and Restoration** is an individual study plan.

Complete courses above + GE Areas: (B1) GEOG 4\* or GEOL 1; (B2) BIO 2.2 or 2.3 or NRM 12; (B4) MATH 15; In addition, ENVS 12 is a required course for this major

**Environmental Education - Multiple Subject Teacher Preparation:** See Liberal Studies major for GE suggestions

### **Water Quality and Hazardous Materials Management**

This B.A. concentration has not been made available for articulation. For the current study plan and information on the difference between the B.A. and B.S., see [www.sonoma.edu/ensp/programs/water\\_quality.html](http://www.sonoma.edu/ensp/programs/water_quality.html) or contact the ENSP Dept.

### **B.S. in Environmental Studies – IMPACTED major (2.75 overall GPA required for 2012-13 admission)**

**CORE COURSES FOR B.S. DEGREE:** CHEM 1A,1B or 4A,4B; MATH 1A; MATH 15; PHYS 20/20L, 21/21L

All transfer students from SRJC to ENSP at SSU are encouraged to take: CS 5; ENVS 12; GEOG 4\*; SOCS 12\*

GE recommendations for all transfer students from SRJC to ENSP: (C2) SPCH 2; (D) ECON 1A or HIST 17.2

**Energy Management and Design** (emphasis on conservation and alternative energy)

Complete courses above + GE Areas: (B1 & B3) PHYS 20/20L & 21/21L; (B2) NRM 12; Also take some or all of the following before transfer: CHEM 1A+1B; MATH 1A+1B; MATH 15

**Environmental Conservation and Restoration** is an individual study plan.

Complete courses above + GE Areas: (B1) GEOG 4\* or GEOL 1; (B2) BIO 2.2 or 2.3 or NRM 12; (B4) MATH 15; In addition, ENVS 12 is a required course for this major

**Environmental Education - Multiple Subject Teacher Preparation:** See Liberal Studies major for GE suggestions

### **Hazardous Materials Management and Water Technology**

Complete courses above + GE Areas: (B1) CHEM 1A+1B; (B2) MICRO 5 or 60; (B3) CHEM 8; (B4) MATH 15; SSU recommends at least two of the following before transfer: MATH 1A+1B; CHEM 12A\*+12B\*; PHYS 20+21; PHYS 40+41

*\* Lower division courses that are accepted "in lieu of" upper division courses at SSU will be granted content credit, but will not meet the upper division unit requirements for the major, for GE or for units in residence.*

For more information, check the web site at [www.sonoma.edu/ensp](http://www.sonoma.edu/ensp) or contact the Dept. of Environmental Studies and Planning at 707-664-2306.

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## **UC BERKELEY**

### **B.S. in Environmental Sciences – College of Natural Resources**

#### **Choose one of three concentrations: Biological Sciences, Physical Sciences, or Social Sciences**

Transfer students must complete all lower division biology, chemistry and math major requirements before entering UCB. UCB also recommends completion of physics, economics and environmental science requirements.

For admission students must complete either (1) CNR requirements in Reading & Composition and Quantitative Reasoning, or (2) IGETC.

**Biological Sciences:** BIO 2.1+2.2+2.3; CHEM 1A or 4A + CHEM 8 or 12A; ECON 1A+1B; ENVS 12; MATH 8A+8B or 1A+1B; PHYS 40+41

**Physical Sciences:** BIO 2.1+2.2+2.3 or BIO 10+upper division ES electives at UCB; CHEM 1A or 4A + CHEM 8 or 12A; ECON 1A+1B; ENVS 12; MATH 1A+1B; PHYS 40+41+42

**Social Sciences:** BIO 2.1+2.2+2.3 or BIO 10+upper division ES electives at UCB; CHEM 1A+1B, or 4A+4B, or CHEM 1A or 4A + CHEM 8 or 12A; ECON 1A+1B; ENVS 12; MATH 8A+8B or 1A+1B; PHYS 40+41

For Environmental Science, Policy & Management, see the guide for transfer in FORESTRY AND NATURAL RESOURCES.

## **UC DAVIS**

### **B.S. in Ecological Management and Restoration**

AGBUS 2; BIO 2.1+2.2+2.3; CHEM 1A+1B or 4A+4B; ECON 12; MATH 1A,1B or 8A,8B; PHYS 20/20L+21/21L

### **B.S. in Environmental Policy Analysis & Planning**

AGBUS 2; BIO 10 or 12 or 2.1; CHEM 1A+1B or 4A+4B; MATH 1A,1B or 8A,8B; ECON 1A, 1B, 12; MATH 15; POLS 1; PHYS 20/20L+21/21L; *One from* AGRI 20, BIO 2.2+2.3, or GEOL 1; *One from* COMM 6, SPCH 1A, or THAR 10A

### **B.S. in Environmental Science and Management**

AGBUS 2; BIO 2.1+2.2+2.3; CHEM 1A+1B or 4A+4B; GEOL 1; MATH 1A,1B or 8A,8B; MATH 15; ECON 1B, 12; PHYS 20/20L+21/21L; *One from* COMM 6, SPCH 1A, or THAR 10A

### **B.S. in Environmental Toxicology**

AGBUS 2; BIO 2.1+2.2+2.3; CHEM 1A+1B or 4A+4B; CHEM 12A+12B; MATH 1A,1B or 8A,8B; PHYS 20/20L+21/21L

For Environmental Horticulture & Urban Forestry, see the guide for transfer in AGRICULTURE - UC DAVIS.

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## **UC SAN DIEGO**

### **B.S. in Environmental Systems**

**Earth Sciences Track:** BIO 2.1+2.2+2.3; CHEM 1A+1B or 4A+4B; ECON 1B; MATH 1A, 1B, 1C (MATH 2 is recommended but not required); PHYS 40, 41, 42

**Ecology, Behavior, & Evolution or Environmental Policy Tracks:** BIO 2.1+2.2+2.3; CHEM 1A+1B or 4A+4B; ECON 1B; MATH 1A, 1B, 1C; PHYS\*

\* Physics courses are not articulated. *Students may substitute PHYS 40+41+42 at SRJC and petition after admission to UCSD.*

**Environmental Chemistry Track:** BIO 2.1+2.2+2.3; CHEM 1A+1B or 4A+4B, 12A+12B; ECON 1B; MATH 1A, 1B, 1C, 2; PHYS 40, 41, 42

For more information see the Environmental Systems web page at <http://esys.ucsd.edu/>.

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## **UC SANTA BARBARA**

### **B.A. in Environmental Studies**

BIO 10 or 2.1; CHEM 1A+1B or 4A+4B; ECON 1A or 1B; ENVS 12; MATH 1A,1B or 8A,8B; MATH 15; PHIL 4 or 7; SOCS 12; *One course from* GEOG 4, GEOL 1/1L, METRO 10; *Two courses from* ANTHRO 2, COMM 10, GEOG 7, PHIL 8 or RELS 1, POLS 1, 2, 18, 25, SOC 1

### **B.S. in Environmental Studies**

BIO 2.1+2.2+2.3; CHEM 1A+1B or 4A+4B; ECON 1A or 1B; ENVS 12; MATH 1A, 1B, 2+5; MATH 15; PHIL 4 or 7; PHYS 20/20L+21/21L or 40+41+42; SOCS 12; *One course from* GEOG 4, GEOL 1/1L, METRO 10; *One course from* ANTHRO 2, COMM 10, GEOG 7, PHIL 8 or RELS 1, POLS 1, 2, 18, 25, SOC 1

For additional information on this major, please visit the department's website at [www.es.ucsb.edu/](http://www.es.ucsb.edu/).

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## **UC SANTA CRUZ**

### **B.A. in Environmental Studies**

Transfer applicants should express interest by indicating Environmental Studies as their first choice of major on their UCSC application. Applicants who do so will receive information regarding the completion of lower division prerequisites.

IGETC does not ensure satisfaction of the specific prerequisites for Environmental Studies. Students should plan ahead to take these prerequisites; most will also satisfy IGETC requirements. For additional information see [www.assist.org](http://www.assist.org) or visit <http://envs.ucsc.edu/>.

**Prerequisite Core:** BIO 12 or 2.2+2.3; CHEM 1A or 4A; MATH 27; *One course from* ANTHRO 2, PHIL 7, 12, SOC 1, or 2; *One course from* ECON 1A, 1B 12, or SOCS 12; *One course from* POLS 1, 18, or 25

**Environmental Studies/Biology combined major:** Add BIO 2.1, 2.2+2.3; CHEM 1B or 4B; PHYS 40+41+42

**Environmental Studies/Earth Sciences combined major:** Add CHEM 1B or 4B; GEOL 1/1L or 11 (+UCSC required lab); MATH 1A+1B or 8A+8B (MATH 27 is not required); PHYS 40+41+42

**Environmental Studies/Economics combined major:** Add ECON 1A & 1B (in addition to ECON 12 or SOCS 12); MATH 15; MATH 1A+1B+1C or MATH 16+ECON 11B at UCSC (*however, UCSC recommends completing math requirements before transfer*)