

# ACADEMIC SUPPORT PROGRAMS

## INDIAN NATURAL RESOURCES SCIENCE & ENGINEERING PROGRAM + DIVERSITY IN STEM (INRSEP+)

### **INRSEP+ Director**

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707-826-5641

### **Native Initiatives Coordinator**

Lonyx Landry  
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Walter Warren House 38  
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The Indian Natural Resources, Science & Engineering Program + Diversity in STEM (INRSEP+) provides academic and research support to students from groups historically underrepresented in science, technology, engineering and mathematics fields with an enhanced focus on American Indian

students. INRSEP+ is designed to provide support networks that help to braid science with culture and community. We offer structured, holistic mentoring to support students in reaching their academic and career goals through academic advising, providing bridges to key campus resources, and helping to foster student-faculty connections. We also connect students to research opportunities, assist with entrance into graduate programs, and foster an inclusive and supportive learning community within the INRSEP house. The house is equipped with a computer lab, study space, and raised bed garden for INRSEP+ student use.

INRSEP+ is grounded in a holistic approach to STEM that accommodates diverse views of the natural world and draws from the traditional knowledge of Indigenous peoples. INRSEP+ aims to work in partnership with local tribal communities to learn from their wisdom and contribute to their goals. The program's mission is to diversify STEM fields

by empowering our students to become leaders who give back to their communities, society, and future generations while strengthening connections with their heritage and culture.

INRSEP+ houses the grant-funded Louis Stokes Alliance for Minority Participation (LSAMP) program and provides support for other similarly purposed programs and campus initiatives. The program is a key component of HSU's many current initiatives to support retention and academic excellence in STEM.



## INDIAN TRIBAL & EDUCATIONAL PERSONNEL PROGRAM & CULTURAL RESOURCE CENTER

### **ITEPP Coordinator**

Adrienne Colegrove-Raymond

### **Cultural Resource Center Coordinator**

Marlette Grant-Jackson

### **Academic Advisors**

Marlette Grant-Jackson  
Paula Tripp-Allen

### **ITEPP & CRC**

Brero House 93  
707-826-3672  
itepp.humboldt.edu

### **Mission and Purpose**

The Indian Tribal & Educational Personnel Program (ITEPP) and the Cultural Resource Center (CRC) are the anchor programs of the Native American Center for Academic Excellence. The ITEPP/CRC mission is to facilitate and promote academic success and self-efficacy for primarily American

Indian students at Humboldt State University that validates Tribal cultural values, political status, and promotes the federal Indian policy of Indian Self-Determination.

The Indian Tribal and Educational Personnel Program (ITEPP), the Native American Center for Academic Excellence established in 1969, offers academic and culturally relevant support for American Indian students attending Humboldt State University (HSU). Taking into consideration political status, tribal affiliation, family and tribal traditions, staff provide a comprehensive approach to educational planning. Staff assist students with reaching their goals by drawing on their cultural identity, building strong support networks (both on and off campus), academic advising, connecting with tribal representatives, engaging with faculty, setting educational and career goals, and applying for scholarship, internships and graduate school.

The CRC, formally established in 1994, is a public-lending library devoted to expanding the awareness of relevant issues facing Indian Country, Tribal communities, and American Indian peoples. The CRC hosts a collection of over 6,500 print, film, and audio resources focused on the breadth of Native social, political, cultural, and geographic experiences and truths. Its catalogue is searchable online through Library World. HSU students and faculty utilize the CRC to enhance their research, course delivery and publications. The nature of the CRC reflects the pedagogy, philosophies and formal constructs of Native knowledge and contributes to a positive academic experience for HSU Native students.



# CERTIFICATES OF STUDY

Certificates of study may be awarded upon completion of a collection of required courses in a subject area. A certificate of study is not the same as a teaching certificate, a credential, or a license.

## **Environmental Education & Interpretation**

Develop basic skills for careers in natural resources interpretation and public information. Contact the Department of Environmental Science & Management at 707-826-4147, or go to: [environment.humboldt.edu/certificates](http://environment.humboldt.edu/certificates).

## **Environmental & Natural Resources Planning**

An overview of effective participation in multidisciplinary planning activities. Contact the Department of Environmental Science & Management at 707-826-4147, or go to: [environment.humboldt.edu/certificates](http://environment.humboldt.edu/certificates).

## **Geospatial**

The Geospatial Certificate Program provides foundational concepts and methods in GIS, remote sensing, and cartography that are transferable and relevant across disciplines and industries. The classes are offered online through the College of Extended Education & Global Engagement and face-to-face classes. Students can also complete an Advanced Geospatial Certificate which includes five additional courses in intermediate and advanced geospatial topics.

Contact Extended Education at 707-826-3731 or go to [extended.humboldt.edu/extended-education/certificates](http://extended.humboldt.edu/extended-education/certificates).

## **Journalism**

Prepare for a career in news, public relations, broadcasting, or another job within the mass media or related fields. Contact the Department of Journalism & Mass Communication at 707-826-4775.

## **Museum & Gallery Practices**

Courses provide preparatory experience for working in museums and commercial galleries, or pursuing graduate studies in the museum field. Study issues and topics related to museum and gallery operations and practice curatorship, registration, exhibition design and art preparation firsthand through production of actual art exhibitions for the on-campus Reese Bullen Gallery, Goudini Gallery, and in local museums and galleries off campus. This certificate may be of particular interest to students majoring in art, anthropology, history, education, Native American studies, education, or business administration. Contact the Department of Art at 707-826-3624 for information.

## **Natural Resource Policy & Administration**

Aimed at students seeking positions at advanced managerial levels in agencies and corporations responsible for managing natural resources. Contact the Department of Environmental Science & Management, 707-826-4147, or go to [environment.humboldt.edu/certificates](http://environment.humboldt.edu/certificates).

## **Women's Studies**

As the academic branch of women's movements, Women's Studies challenges assumptions upon which the Western tradition of scholarship has been based. The curriculum for the Women's Studies certificate focuses on analyzing gender as it is constructed within and through differences of race, ethnicity, class, sexuality, (dis)ability, and nationality. It enables students to interpret the diverse lives, issues, and voices of women in our multicultural and transnational world.

For students who have a bachelor's degree, the certificate program is more in-depth than a minor, offering the opportunity for focused study on a topic or sub-field of interest. This program can be particularly useful for those entering careers in counseling, social work, health care, teaching, human resources, or student affairs. It also helps prepare students for graduate programs in the humanities and/or social sciences. Contact the Department of Critical Race, Gender, & Sexuality Studies at 707-826-4329 for information.



# PREPARATORY COURSES OF STUDY

Preparatory courses of study are non-major programs offering supervised and independent studies to prepare students for specialty educational institutions.

## PRE-LAW (non-major)

### Pre-Law Advisors

Joice Chang, *Politics*

Lynnette Chen, *Philosophy*

Marlon Sherman, *Native American Studies*

### The Program

Pre-law is not a specific course of study in a particular discipline. **There is no established major or specific course of studies for pre-law preparation.** Many different routes exist for preparing for the study of law. Various legal professional organizations, such as the American Bar Association and the Association of American Law Schools, emphasize that success in legal education

comes from a background that has developed the essential skills of **strong analytic thinking**, including the ability to analyze arguments and situations with sound reasoning, and the ability to **communicate well, both orally and in writing.**

Any number of possible majors and minors, along with elective courses, can be combined in preparation for the study of law. The best plan is to choose a major that interests you, and choose as many challenging courses from other areas as possible that support your development as noted above. Perhaps the best way to prepare for law school at Humboldt is to take challenging courses. This

will train your mind to perform well within the rigors of law school studies and later as a member of the legal profession.

Pre-law students should remain in close contact with one of the pre-law advisors.

The Academic and Career Advising Center has information on admission to law schools and the Law School Admission Test (LSAT).

More information is available through the Pre-law advising website at: [humboldt.edu/prelaw](http://humboldt.edu/prelaw).



## PRE-PROFESSIONAL HEALTH (non-major)

### Pre-Dental Advisor

John Reiss, [jor1@humboldt.edu](mailto:jor1@humboldt.edu)

### Pre-Medical Advisor

Jianmin Zhong, [jz15@humboldt.edu](mailto:jz15@humboldt.edu)

### Pre-Optometry Advisor

Jianmin Zhong, [jz15@humboldt.edu](mailto:jz15@humboldt.edu)

### Pre-Pharmacy Advisors

Jianmin Zhong, [jz15@humboldt.edu](mailto:jz15@humboldt.edu)

Jeff Schineller, [jbs4@humboldt.edu](mailto:jbs4@humboldt.edu)

### Pre-Physical Therapy

Whitney Ogle, [Whitney.Ogle@humboldt.edu](mailto:Whitney.Ogle@humboldt.edu)  
(see Kinesiology major)

### Pre-Veterinary Advisors

Sharyn Marks, [sbm1@humboldt.edu](mailto:sbm1@humboldt.edu)

### Biological Sciences

Science Complex B 221

707-826-3245

[humboldt.edu/biosci](http://humboldt.edu/biosci)

Humboldt's Career Center has information on requirements at medical and other professional schools.

### The Program

Several of Humboldt's undergraduate programs in the biological and physical sciences prepare students to meet admissions requirements for health science professional schools. Usually these schools require a

broad education in biological and physical sciences, which Humboldt provides.

Humboldt offers both supervised and independent studies to prepare for professional schools.

### Requirements

Requirements listed here are typical for health science and related professional schools. Contact individual professional schools for specific requirements and consult pre-professional advisors.

**General education** courses and other requirements for the major: (To demonstrate a well rounded background, the HIST 104-HIST 105 sequence is recommended.)

**Biology:** BIOL 105: Principles of Biology, BIOL 340: Genetics, ZOOL 110: Introductory Zoology, ZOOL 310: Animal Physiology, ZOOL 312: Human Physiology

**Chemistry:** CHEM 109: General Chemistry I, CHEM 110: General Chemistry II, CHEM 324/324L: Organic Chemistry I/Lab, CHEM 325/325L: Organic Chemistry II/Lab. Some schools will accept CHEM 228: Brief Organic Chemistry in place of CHEM 324/324L and CHEM 325/325L. Some schools may require CHEM 438: Introductory Biochemistry or the CHEM 434-435 Biochemistry series. Start the CHEM 109-

CHEM 110 sequence as soon as possible.

**Mathematics:** MATH 109: Calculus I, MATH 110: Calculus II (or MATH 105: Calculus for the Biological Sci, MATH 215: Multivariate Calculus for the Biological Sci for pre-medical students). The amount of calculus required by professional schools varies, but a full year is highly recommended. Start the mathematics sequence in the freshman year, because physics and chemistry courses have mathematics prerequisites. Pre-veterinary students should take STAT 109: Introductory Biostatistics.

**Physics:** PHYX 106, PHYX 107 (College Physics sequence) or PHYX 109, PHYX 210, PHYX 211 (General Physics sequence).

**Zoology:** ZOOL 270: Human Anatomy is strongly recommended for pre-medical students.

Other courses may be required to prepare adequately for appropriate aptitude examinations.

Pre-professional students should remain in close contact with their pre-professional advisors.



# DEGREE PROGRAMS

## MAJORS

### Bachelor of Arts (BA)

Anthropology  
 Art  
 Chemistry <sup>(STEM)</sup>  
 Child Development & Family Relationships  
 Child Development/Elementary Education \*\* (Liberal Studies)  
 Communication  
 Criminology & Justice Studies  
 Critical Race, Gender & Sexuality Studies  
 Dance Studies\*  
 (Interdisciplinary Studies)  
 Economics  
 Elementary Education \*\* \*  
 (Liberal Studies)  
 English  
 Environmental Studies  
 Film  
 French & Francophone Studies  
 Geography  
 Geology <sup>(STEM)</sup>  
 History  
 International Studies  
 Journalism  
 Leadership Studies +  
 (Interdisciplinary Studies)  
 Liberal Studies/Elementary Education  
 Mathematics <sup>(STEM)</sup>  
 Music  
 Native American Studies  
 Nursing (RN-BSN)  
 Philosophy  
 Physical Science <sup>(STEM)</sup>  
 Political Science  
 Psychology  
 Recreation Administration  
 Religious Studies  
 Social Work  
 Sociology  
 Spanish  
 Theatre Arts

### Bachelor of Fine Arts (BFA)

Fine Arts

### Bachelor of Science (BS)

Biology <sup>(STEM)</sup>  
 Botany <sup>(STEM)</sup>  
 Business Administration  
 Chemistry <sup>(STEM)</sup>  
 Computer Science <sup>(STEM)</sup>  
 Environmental Resources Engineering <sup>(STEM)</sup>  
 Environmental Science & Management <sup>(STEM)</sup>  
 Fisheries Biology <sup>(STEM)</sup>  
 Forestry <sup>(STEM)</sup>  
 Geology <sup>(STEM)</sup>  
 Kinesiology  
 Oceanography <sup>(STEM)</sup>  
 Physics <sup>(STEM)</sup>  
 Rangeland Resource Science <sup>(STEM)</sup>  
 Wildlife <sup>(STEM)</sup>  
 Zoology <sup>(STEM)</sup>

Family Studies  
 Film  
 Fire Ecology  
 Fisheries Biology  
 Forestry  
 French & Francophone Studies  
 Geography  
 Geology  
 Geospatial Analysis  
 German Studies  
 Health Education  
 History  
 Indigenous Peoples, Natural Resource Use & the Environment  
 International Studies  
 Journalism  
 Kinesiology  
 Linguistics  
 Mathematics  
 Multicultural Queer Studies  
 Music  
 Native American Studies  
 Natural Resources  
 Natural Resources Recreation  
 Oceanography  
 Philosophy  
 Physics  
 Political Science  
 Psychology  
 Rangeland Resource Science  
 Recreation Administration  
 Religious Studies  
 Scientific Diving  
 Social Advocacy  
 Sociology  
 Spanish  
 Spanish Media  
 Teaching English as a Second/Foreign Language  
 Theatre Arts  
 Tribal Leadership  
 Water Resource Policy  
 Watershed Management  
 Wildland Soil Science  
 Women's Studies  
 Zoology

### MINORS

American Indian Education  
 American Sign Language & Special Populations  
 Anthropology  
 Applied Mathematics  
 Applied Statistics  
 Appropriate Technology  
 Art History  
 Art Studio  
 Astronomy  
 Biology  
 Botany  
 Business Administration  
 Chemistry  
 Chinese Studies  
 Communication  
 Computer Science  
 Dance  
 Early Childhood Development  
 Ecological Restoration  
 Economics  
 English Literature  
 English Writing  
 Environmental & Natural Resources Planning  
 Environmental Education & Interpretation  
 Environmental Ethics  
 Environmental Policy  
 Ethnic American Literatures  
 Ethnic Studies, Comparative

Physical Education  
 Science  
 Social Science  
 Spanish

### Educational Leadership

Preliminary Administrative Services

### Specialist Credentials

Adapted Physical Education  
 Special Education  
 Mild/Moderate & Moderate/Severe Disabilities

## GRADUATE DEGREES

### Master of Arts (MA)

#### Applied Anthropology<sup>+</sup>

(not accepting admissions for 2020-21)

#### Education

(not accepting admissions for 2020-21)

#### English

Applied English Studies

#### Psychology

Academic Research  
 Counseling  
 School Psychology

#### Public Sociology

#### Social Science

Environment & Community

### Master of Business Administration (MBA)

### Master of Science (MS)

#### Biology

#### Environmental Systems

Energy Technology & Policy  
 Environmental Resources Engineering  
 Geology

#### Kinesiology

#### Natural Resources

Environmental Science & Management  
 Fisheries  
 Forest, Watershed & Wildland Sciences  
 Wildlife

### Master of Social Work (MSW)

## CREDENTIALS

#### Elementary Education

Preliminary Credential in Multiple Subjects

#### Secondary Education

Art  
 English/Language Arts  
 Mathematics  
 Music

<sup>(STEM)</sup> STEM majors

\* a concentration within the Interdisciplinary Studies degree

\*\* a concentration within Liberal Studies degree

+ program offered through the College of Extended Education & Global Engagement.

# ADAPTED PHYSICAL EDUCATION

## Adapted Physical Education Added Authorization (APEAA)

See *Kinesiology for the Master of Science degree with a major in Kinesiology*.

### Program Coordinator

Chris Hopper, Ph.D.

### Department of Kinesiology & Recreation Administration

Kinesiology & Athletics 305  
707-826-4536  
kra.humboldt.edu

### The Program

This program includes coursework and extensive fieldwork (180 hours) to prepare candidates to teach physical education to individuals with disabilities in public schools and community settings. Candidates develop teaching competencies in motor development, aquatics, game and sports skills, and physical activity/fitness.

### Mission Statement

The Adapted Physical Education program uses research-based practices to prepare teachers to design and implement physical education programs that promote healthy and active lifestyles for children and youth with disabilities.

### Program Learning Outcomes

Develop physical education programs for individuals with disabilities

Use assessment tools to help design physical education programs.

Develop consultation and collaboration skills to serve on interdisciplinary teams.

Use evidence-based practices in teaching physical education/activity to children and youth with a variety of disabling conditions.

### Program Admission Requirements

Candidates can complete the APEAA as a credential program candidate or as part of the Masters Degree in Kinesiology. The APEAA is not a stand-alone teaching authorization and must be attached to a teaching credential.

Candidates can add the APEAA to a basic teaching credential; a multiple subject, single subject, or education specialist credential.

## REQUIREMENTS OF THE PROGRAM

All students receiving the Adapted Physical Education Added Authorization must:

- successfully complete the California Basic Education Skills Test (CBEST)
- complete a California Commission on Teacher Credentialing (CCTC) approved subject matter program in Physical Education Teaching or pass the CSET Physical Education exam authorizing the teaching of physical education.
- successfully complete a basic credential program and receive a teaching credential from CCTC

### Special Grade Requirement

Maintain a GPA of 3.00 or better in the following required courses.

### Required Courses (24 units)

REC 302	(3) Inclusive Recreation [DCG-d]
KINS 385	(3) Adapted Physical Education
KINS 475	(3) Elementary School Physical Education
KINS 484	(3) Motor Development/Motor Learning
KINS 535	(2) Assessment Techniques
KINS 577	(4) Adapted Physical Education Programs
KINS 578	(2) Adapted Aquatics for Instructors
KINS 695	(1-6) Directed Field Experience (complete a total of 4 units)



## Programs Leading to Licensure & Credentialing

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or taxpayer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees or any associated costs to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Office of Academic Affairs, Siemens Hall 216, 707-826-3722.

# AMERICAN INDIAN EDUCATION MINOR

## Minor in American Indian Education

*This minor is housed within the College of Professional Studies.*

### Department Chair

Dr. Kishan Lara-Cooper

### Department of Child Development

Harry Griffith Hall 229

707-826-3471

childdev@humboldt.edu

childdev.humboldt.edu

### The Program

The American Indian Education (AIE) minor provides an understanding of the particular educational needs of American Indian students, as well as the skills to apply methodologies and classroom practices conducive to academic success and validation of cultural identity and values.

Having a positive self-identity and strong cultural affirmation is key for the success of any student in school and in life, but American Indian students face assaults on their identity and culture on a daily basis. To help ensure success in working with American Indian students and communities, the College of Professional Studies provides a rigorous curriculum designed to heighten awareness of the numerous and complex issues surrounding American Indian education, along with successful educational models and classroom applications.

### REQUIREMENTS FOR THE MINOR

**Total units required for the minor: 15**

#### Required (9 units)

- AIE 330 (3) History of Indian Education [DCG-d]
- AIE 335 (3) Social and Cultural Considerations [DCG-d]
- AIE 340 (3) Educational Experiences [DCG-d]

#### Child Growth & Development (3 units)

*Complete one course from the following:*

- CD 209 (3) Middle Childhood Development
- CD 253 (3) Prenatal & Infant Development
- CD 255 (3) Early Childhood Development

#### Language & Communication Awareness (3 units)

*Complete one course from the following:*

- AIE 380/AIE 580 (3) Special Topics
- NAS 340 (3) Language & Communication in Native American Communities
- NAS 345 (3) Native Languages of North America

AIE courses also comprise a specialization within the Child Development major, as well as a special area of emphasis in the MA Education program.

AIE courses are available to all HSU students. Community members may enroll through Extended Education; call 707-826-3731 for a schedule of classes.



# AMERICAN SIGN LANGUAGE & SPECIAL POPULATIONS MINOR

## Minor in American Sign Language & Special Populations

### Department Chair

Dr. Kishan Lara-Cooper

### Department of Child Development

Harry Griffith Hall 229

707-826-3471

childdev@humboldt.edu

childdev.humboldt.edu

### The Program

The American Sign Language and Special Populations Minor is designed to assist individuals who wish to work with the deaf or hard of hearing and/or children with special needs. Individuals will find the minor useful if they seek employment as early interventionists, family service providers, teachers of special education, teachers of the hard of hearing or deaf, or teachers of children with language delays.

The minor is designed to help prepare students to work in an entry-level position with children and families that use American Sign Language as a means of communication or who might benefit from using signed speech in combination with verbal communication. The minor provides the student with background in child development, language acquisition, American Sign Language, life and culture of the deaf and hard of hearing communities, and experiences of families with children with special needs.

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: 19

### Children's Growth & Development (3 units)

Complete one course from the following:

- CD 209 (3) Middle Childhood Development
- CD 253 (3) Prenatal and Infant Development
- CD 255 (3) Early Childhood Development
- CD 350 (3) Perspectives: Life-Span Development

### American Sign Language (6 units)

- CD 109Y (3) American Sign Language I,\* and
- CD 109Z (3) American Sign Language II

### Language Acquisition (3 units)

- CD 355 (3) Language Development

### Special Needs Populations (7 units)

- CD 366 (3) Exceptional Children and their Families,

Complete one of the following:

- COMM 222 (4) Intercultural Communication [DCG-d]
- COMM 324 (4) Nonverbal Communication



\* Students with extensive prior experience using ASL may take the challenge exam to complete CD 109Y.

**NOTE:** Challenge process requires students to inform instructor of desire to challenge and take exam within the first two weeks of the semester. Students should not enroll in the course they wish to challenge. The student must earn a 70 percent or greater on the challenge exam to earn a credit in CD 109Y and before proceeding to CD 109Z.

# ANTHROPOLOGY

## Bachelor of Arts degree with a major in Anthropology

### Minor in Anthropology

## Master of Arts degree in Applied Anthropology\*\*

### Department Chair

Mary Scoggin, Ph.D.

### Graduate Coordinator

Rebecca Robertson

### Department of Anthropology

Behavioral & Social Sciences 506

707-826-4124

anthropology.humboldt.edu

## THE BA PROGRAM

Students completing this program will have demonstrated:

- understanding of the diversity of cultural values reflected in different patterns of social and political organization and systems of communication (symbolic and linguistic)
- the ability to think critically and to apply the scientific method in the various sub-fields of the discipline (cultural, biological, archaeology, linguistics, and applied)
- understanding of the complex and inter-related processes of change (biological and cultural evolution, diffusion, colonialism, globalization) both within cultures and across cultural boundaries
- a solid grasp of the relevance of anthropology to present-day policy and social issues such as human rights, health, historical preservation, conservation, economic development, language use, and cultural practices.
- skills (critical thinking, communication, information literacy and research and technical skills) needed to apply anthropology in practical and professional settings.

Concerned with the world's diverse cultures, anthropology provides education and experience to help students understand the perspectives of peoples in other places, settings, and times. It develops critical and analytical skills and empathic understanding. Students can pursue a wide number of anthropological fields: social and cultural, archaeological, linguistic, and biological.

Humboldt State's unique setting in proximity to nine Native American tribes presents

\*\* The Applied Anthropology MA program is not accepting applications for the 2020-21 academic year.

a rare opportunity for learning about the first Nations of North America and their contemporary relationships to other cultures of the U.S. Our region's cultural richness includes immigrant communities and families as well as students and faculty of diverse nationalities at HSU. Combined with our department's emphasis on international and applied experience, this context allows our students to obtain an academic and experiential education in the study of culture.

Anthropology provides an excellent liberal arts background, benefiting many careers. Wherever crosscultural relations are present, or wherever culturally broad perspectives are valuable (education, social services, medicine, business, legal services, and journalism), anthropologists can make strong contributions.

Humboldt's program provides a strong foundation for graduate study. Graduates have established careers in archaeology, linguistics, international development, foreign affairs, health services, multicultural education, environmental planning and research, biological and medical research, cultural resource management, and professional anthropology.

### Preparation

At the high school level, students can prepare for a major in Anthropology through the study of college preparatory courses, especially including second-language learning, social sciences, mathematics, and biology. At the university level we encourage students to continue with a carefully-planned breadth of education in these areas.

Review your degree plan with your advisor each semester, and ask how to best apply international study and field school work toward the requirements of your major.

### REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

### Unit Requirements

Core units:	31
Emphasis/breadth units:	15
Total units in the major:	46
Total units required for the degree:	120

### Core Courses (31 units)

The following core courses are required for all anthropology majors.

ANTH 103	(3) Biological Anthropology
ANTH 104	(3) Cultural Anthropology
ANTH 105	(3) Archaeology and World Prehistory
ANTH 140	(3) Introduction to the Anthropology of Language
ANTH 210	(1) Introduction to Anthropology Major
ANTH 310	(4) Theory & History in Anthropology
ANTH 410	(4) Anthropology Capstone

### Methods Training

Complete two courses.

ANTH 318	(4) Ethnography
ANTH 330	(4) Method & Theory in Bioanth
ANTH 350	(4) Method & Theory in Archaeology

### Applied Leadership Experience

Complete one course.

ANTH 482	(2) Anthropology Internship/Lab/Research
ANTH 483	(2) Anthropology Teaching & Leadership

### Emphases (15 units)

Complete one of the following emphases and associated breadth areas to fulfill the requirements of the major.

### Archaeology Emphasis

Complete at least three courses (at least 9 units) from the following:

ANTH 307	(3) World Heritage & Archaeology [DCG-n]
ANTH 351	(4) Archaeological Materials Analysis
ANTH 352	(4) Experimental Archaeology
ANTH 353	(4) Archaeology of Warfare
ANTH 354	(4) Cultural Resource Management
ANTH 357	(3-6) Field Archaeology
ANTH 358	(1) Archaeology Lab
ANTH 359	(4) Special Topics in Archaeology
ANTH 394	(4) Regional Survey of North American Archaeology
ANTH 395	(4) Mesoamerican Archaeology

Advisor Approved Elective (e.g., arch lab, field program, independent study)

### Breadth

Complete one course (minimum 3 units) from the Biological Anthropology group and one course (minimum 3 units) from the Sociocultural & Linguistic Anthropology group.

### Biological Anthropology Emphasis

Complete at least three courses (at least 9 units) from the following:

- ANTH 305 (3) Human Evolutionary Health [DCG-n]  
ANTH 331 (4) Paleoanthropology  
ANTH 332 (4) Skeletal Biology & Forensics  
ANTH 333 (4) Primate Adaptation & Evolution  
ANTH 334 (4) Anthropology, Ecology & Conservation  
ANTH 339 (4) Special Topics in Biological Anthropology
- Advisor approved elective (e.g., bioanth lab, field program, independent study, anatomy.)

#### Breadth

Complete one course (minimum 3 units) from the Archaeology group and one course (minimum 3 units) from the Sociocultural & Linguistic Anthropology group.

### Sociocultural & Linguistic Anthropology Emphasis

Complete at least three courses (at least 9 units) from the following:

- ANTH 302 (3) Anthropology of Religion [DCG-n]  
ANTH 316 (4) Anthropology & Development  
ANTH 317 (4) Women & Development  
ANTH 329 (4) Special Topics in Social Anthropology  
ANTH 340 (4) Language & Culture  
ANTH 341 (4) Anthropological Linguistics  
ANTH 390 (4) World Regions Cultural Seminar

Advisor approved elective (e.g., field program, independent study.)

#### Breadth

Complete one course (minimum 3 units) from the Archaeology group and one course (minimum 3 units) from the Biological Anthropology group.

### REQUIREMENTS FOR THE MINOR

Total units required for the minor: 15

#### Lower Division (6 units)

- ANTH 104 (3) Cultural Anthropology, or  
ANTH 140 (3) Introduction to the Anthropology of Language  
ANTH 103 (3) Biological Anthropology, or  
ANTH 105 (3) Archaeology and World Prehistory

#### Upper Division (9 units)

Complete 9 units of upper division anthropology courses.

### THE APPLIED ANTHROPOLOGY MA PROGRAM \*\*

Students completing this program will have demonstrated that they:

- exhibit substantive knowledge of the field of applied anthropology, and an advanced ability to apply disciplinary principles, theories, methods, and approaches to address complex issues within academic and non-academic settings.
- possess professional-level expertise in a concentrated area, an advanced ability to comprehend, conceive, design, and execute meaningful research in that area
- possess a wide range of graduate level practical and professional skills enabling one to function efficiently in academic and non-academic settings, including research and problem-solving skills, effective multi-modal communication, initiative, adaptability, perseverance, and capacity to proactively market skills and expertise
- display knowledge and competency in anthropological ethics and embrace social responsibility in research, teaching and service.

The MA in Applied Anthropology is a rigorous yet flexible program focused on building competitive, marketable skills. Applied anthropology is the application of anthropological perspectives, methods, theories, and practices to human and environmental problems in academic, professional, and global contexts. Applied anthropology crosses traditional disciplinary boundaries and is relevant to students of anthropology, history, human biology, environmental studies, religious studies, sociology, art, geography, international studies, political science, and many other areas.

The program begins with a four to six week Summer Institute, part of which is online and part of which is held on the HSU campus, during which students will build camaraderie and be introduced to the program and discipline. After the Summer Institute, students undertake the remaining coursework via online distance learning, typically in either three to four full-time semesters or six part-time semesters. Students who would like to be on campus are welcomed and will have access to departmental facilities. Students also have three flexible options for culminating experience, a comprehensive exam, project or thesis.

\*\* The Applied Anthropology MA program is not accepting applications for the 2020-21 academic year.

Students will be held to rigorous standards and as such, graduates will gain competitive, broadly applicable skills and be in a position to confidently apply anthropological perspectives, theories, and methods to a variety of careers in today's academic, non-academic, and increasingly global job market.

### REQUIREMENTS FOR THE DEGREE MASTER OF ARTS

For a description of degree requirements to be fulfilled in addition to those listed below, please see, "The Master's Degree" section of the catalog, pp. 83-84.

Total units required for the degree: 35

#### Core Courses (23-26 units)

- ANTH 670 (2) Introduction to Applied Anthropology  
ANTH 671 (3) Methods in Applied Anthropology  
ANTH 672 (3) Theory in Applied Anthropology  
ANTH 673 (3) Anthropology Careers & Management Strategy  
ANTH 674 (3) Research Project Design  
ANTH 678 (3) Applied Anthropology Pro Seminar [1 unit course, repeated 3 times]  
ANTH 682 (3) Anthropology Internship Field/Placement  
ANTH 690 (6) Thesis/Project, or  
ANTH 691 (3) Comprehensive Exam

#### Elective Courses (9-12 units)

Students who choose the comprehensive exam option (ANTH 691) are required to complete 12 units of approved elective courses.

Students who choose to complete a thesis or project (ANTH 690) are required to complete 9 units of approved elective courses.

All electives must be advisor-approved as relevant to emphasis or career trajectory. If emphasis changes, alternate electives may be required, at the discretion of the advisor. Electives must be graduate level or upper division undergraduate level and may be taken at HSU or other universities where credits are transferable. Graduate level courses taken prior to the program, may be used to fulfill elective requirements, if not counted toward any other degree, and taken within seven years of completion of the MA degree.

#### Internship/Field Placement Requirement (ANTH 682)

Students are required to complete 180 hours of advisor-approved field placement (internship) that is focused on gaining hands-

on applied experience in the emphasis area. The field placement may, but is not required to be, directly related to MA thesis research. Field school(s) may fulfill some but not all internship hours, at the discretion of the advisor, but only if such hours are in excess of any hours for which academic credit (units) are earned and applied to meet the focus elective requirement.

### Culminating Experience Options

All students enter the program on track to complete a comprehensive exam. The comprehensive exam consists of three areas chosen in consultation with the advisor, writing of annotated bibliographies in these areas, then taking a written and/or practical exam covering the three areas.

Students wishing to complete a thesis or project must submit a proposal, receive approval, and meet the requirements below.

To be eligible for the thesis or project option a student must have: completed at least 15 units of coursework toward the MA degree with a cumulative GPA of 3.50 or above; and demonstrated proficiency in research and writing skills by earning a grade of A- or above in ANTH 674. An exception may be made on a case-by-case basis if the student can otherwise document sufficient preparation to successfully complete a thesis/project. Any such exception must be approved by the advisor, committee, graduate coordinator and anthropology department chair.

### Skills

In addition to other requirements, students are expected to evince a mastery of subject /skills pertinent to their culminating experience and career trajectories prior to graduation. This may include taking specific elective courses, participating in workshops/trainings/fieldwork, and/or demonstrating practical skills. Any such requirements will set by the advisor with approval from the graduate coordinator, and will be communicated to the student no later than the end of the first semester in the program or within the semester of any approved change in program focus.

### Grade and Progress Requirements, Continuous Enrollment Requirements, and Leave of Absences

Students must pass preliminary exams at the end of the Summer Institute to continue in the program, and each semester students are expected to maintain at least a B (3.00) average and pass all courses with a B- or better. If the culminating experience is not expected to be completed according to the

standard timeline, students are required to enroll in at least 1 unit each fall and spring until work is complete and all committee members have approved the final written thesis and oral defense. Extension of culminating experience completion deadlines must be approved by the advisor and graduate coordinator. Students must file a formal "leave of absence" application if they are unable to continue enrollment. The department reserves the right to dismiss from the program a student who does not make academically adequate and timely progress in moving through degree requirements.

### Conduct Requirements

Students are expected to maintain professional conduct and abide by ethical standards, in all aspects of and activities related to the program, in anthropological research and activities, and in all situations where they represent the program and discipline. The department reserves the right to dismiss from the program a student who does not abide by these rules.

### Typical Program Timelines

#### Summer Institute (5 units) on-campus

- ANTH 670 (2) Introduction to Applied Anthropology
- ANTH 671 (3) Methods in Applied Anthropology

Milestone: Pass preliminary exams

Following the Summer Institute, students may choose to complete the remainder of the program with a full-time or part-time schedule.

#### Full-Time (three semesters) online

##### Semester 1: Fall (10-11 units)

- ANTH 672 (3) Theory in Applied Anthropology
- ANTH 673 (3) Anthropology Careers & Management Strategy
- ANTH 678 (1) Applied Anthropology (3-4) Elective Course

Milestone: Internship

##### Semester 2: Spring (10-11 units)

- ANTH 674 (3) Research Project Design
- ANTH 678 (1) Applied Anthropology Pro Seminar
- ANTH 682 (3) Anthropology Internship Field/Placement (3-4) Elective Course

Milestones: begin internship; advance to candidacy; establish exam areas (Comprehensive Exam Track) or submit full petition after competing ANTH 674 with A- or better (Thesis/Project Track).

#### Semester 3: Fall (10-11 units)

- ANTH 678 (1) Applied Anthropology Pro Seminar (3-4) Elective Course
- ANTH 690 (6) Thesis/Project, or
- ANTH 691 (3) Comprehensive Exam

Milestones: take comprehensive exam or submit and defend thesis/project, and complete internship, or progress toward these goals as approved by advisor.

#### Part-Time (Six semesters) online

##### Semester 1: Fall (4 units)

- ANTH 673 (3) Anthropology Careers & Management Strategy
- ANTH 678 (1) Applied Anthropology

Milestone: identify internship location.

##### Semester 2: Spring (6-7 units)

- ANTH 682 (3) Anthropology Internship Field/Placement (3-4) Elective Course

Milestone: Begin internship.

##### Semester 3: Fall (6-7 units)

- ANTH 672 (3) Theory in Applied Anthropology (3-4) Elective Course

Milestones: submit initial petition and preliminary thesis/project plan

##### Semester 4: Spring (4 units)

- ANTH 674 (3) Research Project Design
  - ANTH 678 (1) Applied Anthropology
- Milestones: establish exam areas (Comprehensive Exam Track) or submit full petition after competing ANTH 674 with A- or better (Thesis/Project Track)

##### Semester 5: Fall (4-5 units)

- ANTH 678 (1) Applied Anthropology (3-4) Elective Course

Milestones: thesis progress approved by thesis committee.

##### Semester 6: Spring (6 units)

- ANTH 690 (6) Thesis/Project, or
- ANTH 691 (3) Comprehensive Exam

Milestones: take comprehensive exam or submit and defend thesis/project, and complete internship, or progress toward these goals as approved by advisor.



# APPLIED STATISTICS MINOR

## Minor in Applied Statistics

### Information

Bori Mazzag, Ph.D., Chair  
Department of Mathematics  
707-826-3143

### The Program

It is increasingly necessary for practitioners in any quantitative discipline to have a substantial background in statistics. Whereas statistics has traditionally played a central role in the biological and natural resources sciences, it is now equally important in business, economics, and the social sciences.

The applied statistics minor is designed to provide the broad statistical knowledge and practical skills needed for application of statistical techniques to research and management problems in a wide variety of disciplines. The introductory, intermediate, and topics courses include computer laboratory sessions, in which students learn to use statistical software. The minor culminates with an upper division applications course.

Different choices for the introductory, intermediate, and applications courses make the applied statistics minor an attractive complement to bachelor's degree programs in business, economics, psychology, and the biological and natural resources sciences.

### REQUIREMENTS FOR THE MINOR

**Total units required for the minor: 25-28**

MATH 102 (4) Algebra & Elementary Functions, **or** equivalent

MATH 105 (3) Calculus for the Biological Sciences & Natural Resources, **or**

MATH 109 (4) Calculus I

*Complete one of the following:*

PSYC 241 (4) Introduction to Psychological Statistics

STAT 108 (3) Elementary Statistics

STAT 108i (3) Elementary Statistics with Integrated Support [Coreq: STAT 8]

STAT 109 (4) Introductory Biostatistics

*Complete one of the following intermediate courses:*

BA 332 (4) Intermediate Business Statistics

PSYC 478 (4) Analysis of Variance

STAT 333 (4) Linear Regression Models/ANOVA

*Complete two courses from the following list:*

STAT 323 (4) Probability & Statistics

STAT 404 (4) Multivariate Statistics

STAT 406 (4) Sampling Design & Analysis

STAT 410 (4) Modern Statistical Modeling

STAT 480 (1-3) Special Topics in Statistics

*Complete one advanced applications course from the following list:*

BA 446 (4) Marketing Research

FISH 458 (4) Fish Population Dynamics

FOR 311 (4) Forest Mensuration & Growth

PSYC 488 (4) Regression/Multivariate Topics

WLDF 311 (4) Wildlife Techniques

WLDF 478 (3) Animal Energetics

or other applications course with substantial statistics content, as approved by the Applied Statistics coordinator.

# APPROPRIATE TECHNOLOGY MINOR

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## Minor in Appropriate Technology

### Advisors

Arne Jacobson, Ph.D.  
Department of Environmental  
Resources Engineering  
Harry Griffith Hall 116B  
707-826-3184

John Meyer, Ph.D.  
Department of Politics  
Founders Hall 138  
707-826-4497

### The Program

The term “appropriate technology” challenges the presumed inevitability or naturalness of technological development. At the same time, the question of which technologies are “appropriate” resists easy or predetermined answers. An HSU minor in appropriate technology allows students to familiarize themselves with promising technologies, while also developing their understanding of the political, social, and economic processes by which choices about technologies are — and might be — made.

Courses enable students to combine theory and practice, often through hands-on projects at the Campus Center for Appropriate Technology (CCAT). CCAT is a student-run, living laboratory and demonstration home on the HSU campus. It models effective energy use, a photovoltaic electrical system, solar hot water heating, graywater recycling, a composting privy, organic gardening, low-impact building materials, and many other technologies, in a residential setting.

The minor can be of particular value to students wishing to pursue careers in science, public policymaking, or community development. It can also be useful for students wishing to volunteer for the Peace Corps or other overseas development work. For those wishing to design and develop technological systems professionally, the minor is not an adequate substitute for a major in Environmental Resources Engineering or a related field.

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: 20

ENST 123	(2) CCAT Practicum (1 unit course taken twice, each with a different topic, for a total of 2 units)
ENGR 305	(3) Appropriate Technology
ENGR 308	(3) Technology and the Environment
PSCI 364	(4) Technology & Development
PSCI 373	(4) Politics of Sustainability
SOC 320	(4) Environmental Sociology



# ART

## **Bachelor of Arts degree with a major in Art —**

concentrations in Art History, Art Studio, and Art Education

## **Bachelor of Fine Arts (BFA) in Fine Art Minor in Art History**

## **Minor in Art Studio**

## **Certificate of Study in Museum & Gallery Practices** (see Certificates of Study)

The Art Department is a fully accredited member of the National Association of Schools of Art and Design and an approved subject matter waiver program through the California Commission on Teacher Credentialing.

## **Department Chair** Heather Madar, PhD.

**Department of Art**  
Art Complex 121  
707-826-3624  
art.humboldt.edu

## **The Program**

### **Art History Concentration**

Students completing this program will have demonstrated:

- recognition of art from a diverse number of periods, cultures, and civilizations
- experience with the materials and working methods of artists
- study of at least one foreign language
- the ability to find information in the library using both traditional and online resources
- recognition of different methods of interpretation
- use of the vocabulary and language of visual analysis
- understanding of the relationship of art to other disciplines in the humanities, social sciences, or sciences
- oral presentation of information and ideas to a group
- written presentation of information and ideas in a formal research paper.

At Humboldt, art history is taught in a variety of ways, based on the visual and historical contexts in which art is created. At the beginning level of instruction, the program features period courses (ART 104 series), such as Renaissance Art and 20<sup>th</sup> Century Art. These courses introduce works of art within their historical contexts.

Upper division courses focus on narrower periods, movements, artists, or problems, such as Rococo & Revolution and public art.

The undergraduate seminar provides a capstone experience preparing students for advanced study leading to teaching and curatorial careers.

Besides courses in art history, students enroll in at least two studio art courses to familiarize themselves with materials and creative working methods of artists. Study of gallery and museum methods gives students both theoretical and practical experience in the important areas of art display and management. This can lead to careers in the gallery and museum world. Students also complete a year of language study to learn how language affects thinking and visual experience in other cultures.

### **Preparation**

In high school take as many art courses as possible in a variety of areas.

### **REQUIREMENTS FOR THE MAJOR**

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see, "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### **Unit Requirement**

**Total units in major/concentration: 51-57**  
**Total units required for the degree: 120**

### **Special Grade Requirement**

Students must receive a minimum grade of C- in any major course for it to count toward the major.

### **Art History Concentration (51 units)**

#### **Lower Division Courses (29 units)**

ART 103A (3) Survey of Art History I:  
Prehistory-Medieval  
ART 103B (3) Survey of Art History II:  
1400CE-Contemporary

#### **Lower Division Elective Courses**

*Complete three courses (9 units) from the ART 104 series.*

ART 104B (3) Ancient Art  
ART 104C (3) Medieval Art  
ART 104F (3) Renaissance Art  
ART 104G (3) Baroque Art  
ART 104H (3) 19th Century Art  
ART 104I (3) 20th Century Art  
ART 104J (3) American Art

ART 104K (3) Africa, Oceania, the  
Americas  
ART 104M (3) Latin American Art  
ART 104N (3) Asian Art

*Complete two lower division studio art classes.*

### **Language**

*Complete one year of a language other than English at the college level (French, German, and Spanish are recommended).*

### **Upper Division Courses (22 units)**

ART 356 (3) Museum & Gallery  
Practices  
ART 410 (4) Seminar in Art History

*Complete 15 units upper division art history courses.*

Electives to bring total units to 120.

### **The Program Art Studio Concentration**

Students completing this program will have demonstrated:

- perceptual and technical skills and basic fundamentals in a variety of media and have depth of knowledge in one or more studio areas
- familiarity with the history of visual ideas, vocabulary, and the language of visual analysis
- utilization of new technological advances where appropriate
- problem solving abilities, individual intuition, creativity, and vision
- the importance of locating the functions of art in current and historical cultural contexts
- integration of knowledge gained in both studio and art history courses

The studio concentration has classes in painting, ceramics, drawing, graphic design, jewelry and metalsmithing, photography, printmaking, and sculpture. We provide large and well equipped studio facilities (including a computer lab), small classes with individual attention, and a faculty of 20 artists who remain active in their own creative pursuits.

The lower division core has courses common to all areas of inquiry in the visual arts. The upper division component is tailored to each student's individual studio emphasis. Through problem-solving assignments and accompanying instruction, students learn processes and strategies for creating works of art in various media. By concentrating on a

particular studio area in depth, students can prepare a portfolio for further professional opportunities or for postgraduate study.

In addition to their studio courses, students must complete 12 units of art history in order to familiarize themselves with the history of visual ideas.

Students can view exhibits at the campus Reese Bullen Gallery as well as at the First Street Gallery in downtown Eureka. Both galleries bring challenging and thoughtful exhibitions of contemporary art to the Humboldt community. Besides curating shows of artists from outside the area, the galleries exhibit the work of faculty members and students.

Student Access Gallery Club, a student-run organization, curates and exhibits student work in three separate venues around campus.

Humboldt's art graduates have gone on to become graphic artists, webpage designers, painters, commercial jewelers, art historians and teachers. Other careers: printmaking, art direction, art museum work, exhibition design, package design, silk screening, sculpting, illustration, photography, jewelry, and ceramics.

### Preparation

In high school take as many art courses as possible in a variety of areas.

### Art Studio Concentration (54 units)

#### Lower Division Courses (27 units)

ART 103A	(3) Survey of Art History I: Prehistory-Medieval
ART 103B	(3) Survey of Art History II: 1400 CE-Contemporary
ART 105B	(3) Fundamentals of Drawing
ART 105C	(3) 2D Foundations
ART 105D	(3) 3D Foundations

#### Lower Division Studio Electives

Complete four courses (12 units) from:

ART 106	(3) Painting I
ART 107	(3) Printmaking I
ART 108	(3) Graphic Design I
ART 109	(3) Sculpture I
ART 122	(3) Life Drawing I
ART 250	(3) Darkroom Photography
ART 251	(3) Photography I
ART 282	(3) Jewelry/Small Metals I
ART 290	(3) Ceramics I

#### Upper Division Courses (27 units)

ART 437	(3) Professional Practices in Art
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Complete two courses in upper division art history (minimum 6 units)

Complete 18 upper division studio units. ART 356 is recommended.

### Art Education Concentration (57 units)

Preparatory to a single subject teaching credential program

#### The Program

The undergraduate subject-matter program in art education prepares students to teach in a junior high and senior high school. The art education curriculum is a combination of studio, art history, and museum practices; this prepares the student for more advanced training to become an art educator either in schools or museums. Our program is an approved subject matter waiver program through the California Commission on Teacher Credentialing.

The lower division core classes build a strong foundation for students developing the skills and tools needed in becoming an artist or teacher. In upper division classes, students have the opportunity to concentrate in a particular studio area while taking courses that prepare them to teach a broad spectrum of courses offered in a junior or high school.

Students will familiarize themselves with the four components of the California Visual and Performing Arts Framework and the California Visual and Performing Arts Content Standards in order to develop strategies for teaching and lessons for instruction. We have a service learning component built into the art education classes. Students have the opportunity to develop curriculum and teach art in local schools and docent school children at the local galleries and museums.

In the credentialing program, students are immersed in education classes and have opportunities to teach with excellent master teachers in Humboldt County. Students must apply for this program and pass the competency assessment of subject matter, which takes place spring semester of the senior year.

**Please note:** Degree requirements listed here do not include the professional education courses required for the credential. Students earning this degree may waive CSET assessments before entering the credential program. Before applying to the secondary education credential program, students must meet the prerequisite of 45-hours early field experience or enroll in SED 210/SED 410. Please notify your advisor at least two semesters prior to applying

to the credential program, so that you can clarify state requirement for acceptance.

#### Lower Division Courses (30 units)

ART 103A	(3) Survey of Art History I: Prehistory-Medieval
ART 103B	(3) Survey of Art History II: 1400 CE-Contemporary
ART 105B*	(3) Fundamentals of Drawing
ART 105C	(3) 2D Foundations
ART 106	(3) Painting I
ART 105D	(3) 3D Foundations, <b>or</b>
ART 109	(3) Sculpture I, <b>or</b>
ART 282	(3) Jewelry/Small Metals I
ART 122	(3) Life Drawing I

\* Prerequisite to further art coursework.

#### Lower Division Studio

ART 108	(3) Graphic Design I
ART 251	(3) Photography I
ART 290	(3) Ceramics I

#### Upper Division Courses (27 units)

ART 357B	(3) Curriculum & Development through Art Education I [fall only take in your junior year]
ART 357C	(3) Curriculum & Development through Art Education II [spring only, take in your junior year]
ART 497S	(3) Service Learning & Art Education I [fall only, take in your senior year]
ART 498S	(3) Service Learning & Art Education II [spring only, take in your senior year]

#### Upper Division Art History

Complete two courses from the following:

ART 301	(3) Topics in Western Art History
ART 302	(3) Topics in Global Art History
ART 303	(3) Global Contemporary Art
ART 304	(3) Topics in American Art

#### Upper Division Studio

Complete three courses (9 units) of upper division Studio Electives.

## THE BACHELOR OF FINE ARTS

### Program Admission Requirements

The BFA is a cohort-based program for students in their junior and senior years. Students should apply to the BFA program in their sophomore year for entrance in the following fall semester. Admission to the program is competitive. To be considered, an applicant must have completed the lower division core courses for the studio art major (15 units) and at least two of the four lower division studio elective courses with a minimum GPA of 3.00 (B). In addition, applicants are required to electronically submit images of their work, two academic references, a short personal statement and an unofficial transcript. Transfer students interested in the BFA program may apply to the program following the above guidelines. For university transfer requirements, see the "Admission Information" section of the catalog. Please refer to the Art Department website for current information regarding application guidelines, application forms and timelines.

### The BFA Program

The Bachelor of Fine Arts (BFA) in Fine Art is a professional degree intended for students interested in pursuing graduate studies or other professional opportunities. The fine arts major requires 70 units of coursework in art studio and art history, giving students the opportunity to develop a high level of expertise. The lower division coursework is designed to give students a solid technical foundation in studio art. BFA students at the upper division level focus their study through approved elective courses in painting, drawing and illustration, jewelry and small metals, photography, ceramics, printmaking, sculpture, and digital media/graphic design. BFA students will produce a culminating portfolio of artwork demonstrating perceptual acuity and conceptual understanding at a professional level and will do a public presentation in their final semester.

Students completing this program will be able to:

- Examine the relationship and influence of the visual arts on a historical and cultural context
- Recognize and evaluate critical and aesthetic issues within the history of art and contemporary studio practice.
- Apply aesthetic judgement perceptual sensitivity and critical thinking skill to arts related issues and environments in daily life.
- Demonstrate mastery of specific technical, conceptual and/or critical abilities within each concentration area

- Communicate effectively, in both written and oral formats on research and creative issues
- Demonstrate perceptual acuity conceptual understanding and technical facility at a professional entry level in their chosen field

### REQUIREMENTS FOR THE MAJOR (Fine Arts, BFA)

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see, "The Bachelor's Degree" section of the catalog, pp. 67-82.*

#### Unit Requirement

**Total units in the major: 70**

**Total units required for the degree: 120**

#### Special Grade Requirement

A minimum GPA of 3.00 ("B" average) must be maintained for all courses taken to satisfy the requirements of the major.

#### Lower Division (27 units)

ART 103A	(3) Survey of Art History I: Prehistory-Medieval
ART 103B	(3) Survey of Art History II: 1400 CE-Contemporary

#### Lower Division Studio Courses

ART 105B	(3) Fundamentals of Drawing
ART 105C	(3) 2D Foundations
ART 105D	(3) 3D Foundations

#### Lower Division Studio Electives

*Complete four courses (12 units) from the following list.*

ART 106	(3) Painting I
ART 107	(3) Printmaking I
ART 108	(3) Graphic Design I
ART 109	(3) Sculpture I
ART 112	(3) Scientific Drawing I
ART 122	(3) Life Drawing I
ART 250	(3) Darkroom Photography
ART 251	(3) Photography I
ART 273	(3) Illustration I
ART 282	(3) Jewelry & Small Metals I
ART 290	(3) Ceramics I

#### Upper Division (43 units)

ART 303	(3) Global Contemporary Art
<i>Complete two additional art history courses.</i>	
ART 301	(3) Topics in Western Art History
ART 302	(3) Topics in Global Art History [DCG-n]
ART 304	(3) Topics in American Art History [DCG-d]
ART 410	(4) Art History Seminar

#### Professional Development

ART 437	(3) Professional Practices in Art
ART 356	(3) Museum and Gallery Practices, <b>or</b>
ART 491A	(3) Teaching Assistant: Studio
ART 494	(4) BFA Practicum in Studio Art

#### Upper Division Studio Electives

Complete eight courses (24 units) from the following lists. At least one course must be from List B.

#### Studio Electives List A

ART 321	(3) Drawing II
ART 325	(3) Life Drawing II
ART 326	(3) Painting II
ART 330	(3) Printmaking: Studio Topics
ART 337	(3) Photography: Studio Topics
ART 340	(3) Graphic Design II
ART 345	(3) Sculpture: Studio Topics
ART 346	(3) Sculpture: Materials & Methods
ART 348	(3) Jewelry and Small Metals: Casting
ART 350	(3) Ceramics: High Fire
ART 351	(3) Ceramics: Low Fire
ART 367	(3) Photography II
ART 372	(3) Graphic Design: Studio Topics
ART 373	(3) Illustration II
ART 395	[1-6] Topics in Studio Art
ART 396B	(3) Workshops
ART 499	(3) Directed Study

#### Studio Electives List B

ART 324	(3) Drawing: Portfolio Development
ART 329	(3) Painting III
ART 333	(3) Printmaking: Portfolio Development
ART 339	(3) Photography: Portfolio Development
ART 343	(3) Graphic Design: Portfolio Development
ART 347	(3) Sculpture: Portfolio Development
ART 349	(3) Jewelry & Small Metals: Studio Topics
ART 359	(3) Ceramics: Portfolio Development

### REQUIREMENTS FOR THE MINORS

#### Art History Minor

**Total units required for the minor: 19**

#### Lower Division (9 units)

ART 103A	(3) Survey of Art History I: Prehistory-Medieval
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ART 103B (3) Survey of Art History II:  
1400 CE-Contemporary

*Complete one ART 104-series art history  
courses (3 units).*

**Upper Division (10 units)**

ART 410 (4) Seminar in Art History

*Complete two additional upper division art  
history courses (6 units).*

**Art Studio Minor**

**Total units required for the minor: 18**

**Lower Division (9 units)**

ART 105B (3) Fundamentals of Drawing

**Lower Division Studio Electives**

*Complete 6 units of lower division studio  
electives.*

**Upper Division (9 units)**

*Complete 9 units of upper division studio  
electives.*



DRAFT

# BIOLOGY

## Bachelor of Science degree with a major in Biology —

Concentrations in:  
Cellular/Molecular Biology  
Ecology  
General Biology  
Marine Biology  
Microbiology  
Science Education

## Minor in Biology

## Science Teaching Credential

## Master of Science degree in Biology

### Department Chair

Amy Sprowles, Ph.D.

### Department of Biological Sciences

Science Complex B 221  
707-826-3245  
humboldt.edu/biosci

### The Program

Students completing this program will have demonstrated the ability to:

- apply the scientific method to questions in biology by formulating testable hypotheses, gathering data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses
- present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists
- access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works
- apply fundamental mathematical tools (statistics, calculus) and physical principles (physics, chemistry) to the analysis of relevant biological situations
- identify the major groups of organisms and be able to classify them within a phylogenetic framework. Students will be able to compare and contrast the characteristics of organisms that differentiate the various domains and kingdoms from one another
- use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They will be able to use specific examples to explicate how descent with modification has shaped organismal morphology, physiology, life history, and behavior

- explain how organisms function at the level of the gene, genome, cell, tissue, organ and organ-system. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and behavior of different forms of life

- explicate the ecological interconnectedness of life on earth by tracing energy and nutrient flows through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems

- demonstrate proficiency in the experimental techniques and methods of analysis appropriate for their area of specialization within biology.

Humboldt's program emphasizes hands-on learning. Our diverse facilities include the largest greenhouse in the California State University system, a vertebrate museum containing mammals, reptiles, and amphibians from around the world, and a vascular plant herbarium with almost 100,000 specimens. Near the campus are many parks, forests, and undisturbed habitats for studying plants and animals in their natural surroundings.

Humboldt's marine laboratory, located on the coast in the nearby town of Trinidad, gives students outstanding opportunities for marine biology projects. The research vessel, the Coral Sea, is used for seagoing field trips. Several smaller boats are used in nearshore waters, coastal lagoons, and Humboldt Bay.

Our well-equipped biotechnology laboratory, cell culture facility, and College Core facility allow modern work in molecular and cellular biology. Scanning and transmission electron microscopes are also available for student use.

Humboldt biology graduates have many job opportunities: teacher, field biologist, marine biologist, museum curator, science librarian, clinical lab technologist, laboratory technician, environmental consultant, microbiologist, and biotechnology research technician. Graduates may also pursue advanced study in biology or a professional degree.

### Preparation

In high school take biology, chemistry, and physics (with labs, if possible); beginning and intermediate algebra; geometry; and trigonometry.

## REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

### Unit Requirements

**Core units:** 41-42  
**Concentration units:** 23-46  
**Total units in the major:** 64-87  
**Total units required for the degree:** 120

### Special Grade Requirement

Students who receive a grade below a C- in any prerequisite course will require instructor approval for enrollment.

### Core Courses (41-42 units)

The following core courses are required for all biology majors. Take all lower division courses before beginning upper division work.

#### Lower Division

BIOL 105 (4) Principles of Biology  
BOT 105 (4) General Botany  
CHEM 109 (5) General Chemistry I  
CHEM 110 (5) General Chemistry II  
MATH 105 (3) Calculus for the Biological Sciences & Natural Resources, **or**  
MATH 109 (4) Calculus I  
PHYX 106 (4) College Physics: Mechanics & Heat  
STAT 109 (4) Introductory Biostatistics  
ZOO 110 (4) Introductory Zoology

#### Upper Division

BIOL 307 (4) Evolution  
BIOL 340 (4) Genetics

### Concentrations (23-46 units)

Complete one of the following concentrations to fulfill the requirements of the major:

#### Cellular/Molecular Biology Concentration (26-35 units)

See biology core courses.

#### Lower Division

PHYX 107 (4) College Physics: Electromagnetism & Modern Physics, **or**  
PHYX 118 (1) College Physics: Biological Applications  
CHEM 228 (4) Brief Organic Chemistry, **or** the two-semester series:  
CHEM 324 (3) Organic Chemistry I, **and**

CHEM 324L (2) Organic Chemistry I Lab,  
CHEM 325 (3) Organic Chemistry II, **and**  
CHEM 325L (2) Organic Chemistry II Lab,

### Upper Division

BIOL 350 (3) Cell Biology

*Complete one physiology courses from:*

BOT 310 (4) General Plant Physiology

ZOOL 310 (4) Animal Physiology

ZOOL 312 (4) Human Physiology

*Complete one of the following:*

BIOL 440 (2) Molecular Genetics Lab

BIOL 450 (2) Cell Biology Laboratory

### Upper Division Restricted Electives

*Complete 12 units from the courses below.*

*[No more than 2 units of BIOL 490 or BIOL 499 may be used to fulfill this requirement.]*

BIOL 412 (4) General Microbiology

BIOL 440 (2) Molecular Genetics Lab (if not already taken)

BIOL 450 (2) Cell Biology Lab (if not already taken)

BIOL 544 (2) Stem Cell Biology

BIOL 544L (2) Stem Cell Biology Lab

BIOL 564 (4) Transmission & Scanning Electron Microscopy

BIOL 490 (1-2) Senior Thesis, **or**

BIOL 499 (1-2) Directed Study

CHEM 438 (4) Introductory Biochemistry

CHEM 434 (3) Biochemistry I

CHEM 434L (2) Biochemistry I Lab

CHEM 435 (3) Biochemistry II

CHEM 435L (2) Biochemistry II Lab

ZOOL 476 (4) Principles of Animal Development

or upper division statistics courses with the approval of your advisor.

### Ecology Concentration (30-37 units)

*See core courses.*

#### Lower Division

CHEM 228 (4) Brief Organic Chemistry

PHYX 107 (4) College Physics: Electromagnetism & Modern Physics, **or**

PHYX 118 (1) College Physics: Biological Applications

*Complete one of the following:*

GEOG 106 (3) Physical Geography

GEOL 109 (4) General Geology

OCN 109/109L (3/1) General Oceanography/Lab

SOIL 260 (3) Intro to Soil Science

FISH 320 (3) Limnology

### Upper Division

BIOL 330 (4) Principles of Ecology

BIOL 434 (4) Population & Community Ecology

*Complete 4-5 units from the following:*

BIOL 350 (3) Cell Biology **and** [either

BIOL 440 (2) Molecular Genetics Lab **or**

BIOL 450 (2) Cell Biology Lab]

**or**

BIOL 412 (4) General Microbiology, **or**

BOT 310 (4) General Plant Physiology, **or**

ZOOL 310 (4) Animal Physiology

*Complete at least 3 units of additional courses from the following:*

BIOL 412 (4) General Microbiology

BOT 350 (4) Plant Taxonomy

BOT 354 (4) Agrostology

BOT 355 (4) Lichens and Bryophytes

BOT 356 (4) Phycology

BOT 358 (2) Biology of Microfungi

BOT 359 (2) Biology of Ascomycetes and Basidiomycetes

FISH 310 (4) Ichthyology

WLDF 365 (3) Ornithology I

ZOOL 314 (5) Invertebrate Zoology

ZOOL 316 (3) Freshwater Aquatic Invertebrates

ZOOL 354 (4) Herpetology

ZOOL 356 (3) Mammalogy

ZOOL 358 (4) General Entomology

ZOOL 556 (4) Marine Mammalogy

*Complete one upper division statistics course (e.g., STAT 333, STAT 406)*

### Upper Division Electives

*Complete three additional upper division courses (totaling at least 7 units) chosen with your advisor and focused on developing your skills as an ecologist.*

### General Biology Concentration (28-38 units)

*See core courses.*

#### Lower Division

PHYX 107 (4) College Physics: Electromagnetism & Modern Physics, **or**

PHYX 118 (1) College Physics: Biological Applications

*Take all lower division courses before beginning upper division work.*

#### Upper Division

BIOL 330 (4) Principles of Ecology

BIOL 412 (4) General Microbiology, **or**

BIOL 433 (3) Microbial Ecology **and**

BIOL 433D (1) Microbial Ecology Discussion

*Complete one course from the following:*

BIOL 350 (3) Cell Biology

BOT 310 (4) General Plant Physiology

ZOOL 310 (4) Animal Physiology

ZOOL 312 (4) Human Physiology

*Complete either:*

CHEM 228 (4) Brief Organic Chemistry

**or the two-semester series:**

CHEM 324 (3) Organic Chemistry I

CHEM 324L (2) Organic Chemistry I Lab

CHEM 325 (3) Organic Chemistry II

CHEM 325L (2) Organic Chemistry II Lab

*Complete at least 12 additional units of upper division courses in biological sciences, chosen in consultation with an academic advisor.*

### Marine Biology Concentration (40-46 units)

*See core courses.*

#### Lower Division

BIOL 255 (3) Marine Biology

CHEM 228 (4) Brief Organic Chemistry

OCN 109/109L (3/1) General Oceanography/Lab

PHYX 107 (4) College Physics: Electromagnetism & Modern Physics, **or**

PHYX 118 (1) College Physics: Biological Applications

*Take all lower division courses before beginning upper division work.*

#### Upper Division

BIOL 330 (4) Principles of Ecology

BOT 356 (4) Phycology

FISH 310 (4) Ichthyology

ZOOL 314 (5) Invertebrate Zoology

BIOL 430 (3) Intertidal Ecology, **or**

OCN 310 (4) Biological Oceanography

*Complete one of the following:*

BIOL 350 (3) Cell Biology

BOT 310 (4) Gen. Plant Physiology

ZOOL 310 (4) Animal Physiology

*Complete one of the following:*

BIOL 490 (1-2) Senior Thesis

BIOL 498 (2) Marine Biology Capstone Research

BIOL 499 (1-2) Directed Study

*Complete at least one advanced marine biology elective from the following list, or from any optional course NOT taken above.*

BIOL 418 (3) Marine Microbiology

BOT 553 (3) Marine Macrophyte Ecology

FISH 375 (3) Mariculture

FISH 435 (4) Biology of Marine Fishes

OCN 410 (3) Zooplankton Ecology

ZOOL 530 (3) Benthic Ecology

- ZOOL 552 (3) Advanced Invertebrate Zoology  
 ZOOL 556 (4) Marine Mammalogy

### Microbiology Concentration (23-34 units)

See core courses.

#### Lower Division

- PHYX 107 (4) College Physics: Electromagnetism & Modern Physics, **or**  
 PHYX 118 (1) College Physics: Biological Applications

Complete either:

- CHEM 228 (4) Brief Organic Chemistry, or the two-semester series:  
 CHEM 324 (3) Organic Chemistry I  
 CHEM 324L (2) Organic Chemistry I Lab  
 CHEM 325 (3) Organic Chemistry II  
 CHEM 325L (2) Organic Chemistry II Lab

Take all lower division courses before beginning upper division work.

#### Upper Division

- BIOL 330 (4) Principles of Ecology  
 BIOL 412 (4) General Microbiology  
 BIOL 418 (3) Marine Microbiology, **or**  
 BIOL 433 (3) Microbial Ecology **and**  
 BIOL 433D (1) Microbial Ecology Discussion  
 BIOL 440 (2) Molecular Genetics Laboratory, **or**  
 BIOL 490 (1-2) Senior Thesis, **or**  
 BIOL 499 (1-2) Directed Study

#### Upper Division Restricted Electives

Complete 6 units from the courses listed below.

- BIOL 350 (3) Cell Biology  
 BIOL 440 (2) Molecular Genetics Lab (if not already taken)  
 BIOL 450 (2) Cell Biology Lab  
 BIOL 564 (4) Transmission & Scanning Electron Microscopy  
 BOT 358 (2) Biology of the Microfungi  
 BOT 356 (4) Phycology  
 CHEM 438 (4) Introductory Biochemistry

Or upper division statistics course with the approval of your advisor.

### Science Education Concentration (31 units)

See core courses.

#### Lower Division

- CHEM 228 (4) Brief Organic Chemistry  
 GEOL 109 (4) General Geology

- PHYX 107 (4) College Physics: Electromagnetism & Modern Physics

Take all lower division courses before beginning upper division work.

#### Upper Division

- BIOL 330 (4) Principles of Ecology  
 BIOL 350 (3) Cell Biology  
 BIOL 448 (3) Biogeography  
 BIOL 499 (1) Directed Study  
 BOT 350 (4) Plant Taxonomy  
 ZOOL 312 (4) Human Physiology

Before applying to the secondary education credential program, students must meet the prerequisite of 45 hours early field experience or enroll in SED 210/SED 410.

### REQUIREMENTS FOR THE MINOR

Total units required for the minor: 23-24

#### Lower Division

- BIOL 105 (4) Principles of Biology  
 BOT 105 (4) General Botany  
 ZOOL 110 (4) Introductory Zoology

#### Upper Division

Complete one of the following courses.

- BIOL 350 (3) Cell Biology  
 BOT 310 (4) General Plant Physiology  
 ZOOL 310 (4) Animal Physiology  
 ZOOL 312 (4) Human Physiology

#### Upper Division Electives

Complete an additional 8 units of upper division courses (approved by minor advisor) in at least two of these three areas: biology (BIOL), botany (BOT) and zoology (ZOOL). Of these 8 units, a minimum of 6 units must be courses NOT used to satisfy major requirements.

**Note:** BIOL 307 Evolution is the only upper division GE Area B course that can be used to satisfy requirements for the Biology minor.

### MASTER OF SCIENCE DEGREE IN BIOLOGY

#### The Program

Graduate students will:

- apply a rich body of relevant biological sciences knowledge and information to solve complex scientific problems and challenges
- present a proposal for biological research or project of their own design
- conduct a unique and independent biological investigation or an independent project according to the rigors and conventions of the field

- communicate the results of their scientific investigation or project in an oral format according to conventions of the discipline
- communicate the results of their scientific investigation or project in writing according to the conventions of the discipline

### Program Admission Requirements

Bachelor's degree in biology, botany, zoology, or a related subject area approved by the Department of Biological Sciences.

Undergraduate GPA at least 2.50 overall or 3.00 for the last 60 semester units of credit.

Submitted results of the aptitude portion of the Graduate Record Examination (GRE).

### REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN BIOLOGY

For a description of degree requirements to be fulfilled in addition to those listed below, please see "The Master's Degree" on page 83.

Total units required for the degree: 30

#### Core Courses

- BIOL 683 [1] Introduction to Graduate Studies  
 BIOL 684 [1] Introduction to Graduate Research  
 BIOL 685 [1] Seminar in Biology [take two seminars]

Complete upper division or graduate units in biological sciences or supporting courses approved by the graduate committee to bring total to 30 units. A minimum of 18 units must be at the graduate level.

BIOL 597 Methods in Laboratory Instruction, can be used to fulfill 2 of the 30 units required for the degree, but cannot be used to fulfill any of the 18 graduate-level units.

While in residence, enrollment in a minimum of 2 units\* per semester of:

- BIOL 690 [1-4] Thesis **or**  
 BIOL 699 [1-4] Independent Study.

\*Combined total of not less than 4 nor more than 8 units of BIOL 690 and/or BIOL 699 (with a maximum of 6 units in BIOL 690) and a thesis or project approved by the graduate committee.

#### Culminating Experience

Oral presentation of the thesis or project work and defense of the thesis or project before the graduate committee.



# BOTANY

## Bachelor of Science degree with a major in Botany

### Minor in Botany

## Master of Science degree in Biology (see Biology)

**Department Chair**  
Amy Sprowles, Ph.D.

### Department of Biological Sciences

Science Complex B 221  
707-826-3245  
humboldt.edu/biosci

### The Program

Students completing this program will have demonstrated the ability to:

- apply the scientific method to questions in biology by formulating testable hypotheses, gathering data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses
- present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists
- access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works
- apply fundamental mathematical tools (statistics, calculus) and physical principles (physics, chemistry) to the analysis of relevant biological situations
- identify the major groups of organisms and be able to classify them within a phylogenetic framework. Students will be able to compare and contrast the characteristics of organisms that differentiate the various domains and kingdoms from one another
- use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They will be able to use specific examples to explicate how descent with modification has shaped organismal morphology, physiology, life history, and behavior
- explain how organisms function at the level of the gene, genome, cell, tissue, organ and organ-system. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and behavior of different forms of life
- explicate the ecological interconnectedness of life on earth by tracing energy and

nutrient flows through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems

- demonstrate proficiency in the experimental techniques and methods of analysis appropriate for their area of specialization within biology.

Humboldt State University has the largest greenhouse of all the state campuses, containing an extensive collection of plants from around the world. Students also find a large collection of pressed plants in the herbarium.

Several plant growth chambers allow students to control growing conditions of plants. Native plants in nearby wilderness areas also provide excellent opportunity for study.

Our botany graduates do well in these careers: herbarium curator; naturalist, plant physiologist, technical writer; plant ecologist, environmental consultant, botanist, horticulturist, science librarian, plant pathologist.

### Preparation

In high school take biology, chemistry, and physics (with labs, if possible), algebra (beginning, intermediate), geometry, and trigonometry.

### REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see, "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### Unit Requirements

**Total units in the major: 72-79**

**Total units required for the degree: 120**

### Special Grade Requirement

Students who receive a grade below a C- in any prerequisite course will require instructor approval for enrollment.

### Lower Division (34-37 units)

BIOL 105	(4) Principles of Biology
BOT 105	(4) General Botany
CHEM 109	(5) General Chemistry I
CHEM 110	(5) General Chemistry II
CHEM 228	(4) Brief Organic Chemistry
MATH 105	(3) Calculus for the Biological Sciences & Natural Resources*
PHYX 106	(4) College Physics: Mechanics & Heat
PHYX 107	(4) College Physics: Electromagnetism & Modern Physics, or

PHYX 118	(1) College Physics: Biological Applications
STAT 109	(4) Introductory Biostatistics
ZOOL 110	(4) Introductory Zoology

### Upper Division (38-42 units)

BIOL 307	(4) Evolution
BIOL 330	(4) Principles of Ecology
BIOL 340	(4) Genetics
BOT 310	(4) General Plant Physiology

### Botanical Diversity

*Complete three of the five (a-e) options:*

a) BOT 350	(4) Plant Taxonomy
b) BOT 354	(4) Agrostology
c) BOT 355	(4) Lichens & Bryophytes
d) BOT 356	(4) Phycology
e) BOT 358	(2) Biology of the Microfungi and BOT 359 (2) Biology of Ascomycetes & Basidiomycetes, or
BOT 360	(2) Biology of the Fleshy Fungi and BOT 360L (2) Biology of the Fleshy Fungi Lab, or
BOT 394	(3) Forest Pathology

### Plant Structure/Development/Evolution

*Complete one course.*

BOT 322	(4) Developmental Plant Anatomy
BOT 372	(4) Evolutionary Morphology of Plants
BOT 521	(3) Paleobotany

### Life Science Electives

*Complete one of the following or an upper division zoology (ZOOL), fisheries (FISH) or wildlife (WLDF) course with a lab for 3-5 units. The course must be approved by your academic advisor.*

BOT 330	(2) Plant Ecology, and
BOT 330L	(1) Plant Ecology Lab
BOT 553	(3) Marine Macrophyte Ecology
BIOL 350	(3) Cell Biology
BIOL 412	(4) General Microbiology
BIOL 418	(3) Marine Microbiology
BIOL 433	(3) Microbial Ecology, and
BIOL 433D	(1) Microbial Ecology Discussion
BIOL 434	(4) Population & Community Ecology
BIOL 448	(3) Biogeography

\* MATH 109 may substitute for MATH 105.

BIOL 564 (4) Transmission & Scanning  
Electron Microscopy  
OCN 109 (3) General Oceanography **and**  
OCN 109L (1) General Oceanography Lab  
SOIL 260 (3) Introduction to Soil  
Science

**Research Requirement**

*Complete one course (1 unit) from:*

BIOL 490 (1-2) Senior Thesis  
BIOL 499 (1-2) Directed Study

**REQUIREMENTS FOR THE MINOR**

Total units required for the minor: 22

**Lower Division (8 units)**

BIOL 105 (4) Principles of Biology  
BOT 105 (4) General Botany

**Upper Division Electives (14 units)**

Complete 14 units of upper division courses in botany, approved by minor advisor. Of these 14 units, a minimum of 6 units must be courses NOT used to satisfy your major requirements.

**Note:** BOT 300 Plants & Civilization may NOT be used to satisfy requirements for the botany minor.

■ ■ ■

DRAFT

# BUSINESS ADMINISTRATION

## Bachelor of Science degree with a major in Business

**Administration** — concentrations available in Accounting, Economics, Finance, Marketing, and New Venture Management

## Minor in Business Administration

## Master of Business Administration

### School Chair

Hari Singh, Ph.D.

### School of Business

Siemens Hall 111  
707-826-3224  
business.humboldt.edu

## The Program

Students completing this program will have demonstrated:

- basic knowledge of core business disciplines in a global context
- effective writing and presentation skills
- competent ethical reasoning skills
- understanding of basic sustainability (triple bottom line) from a strategic point of view
- strategic decision making skills that integrate knowledge from various business disciplines.

Our academic programs are infused with sustainability and focused on entrepreneurship. Talk to your advisor if you are interested in focusing your training in entrepreneurship. Our faculty are committed to providing students with opportunities for hands-on learning and collaborative, team-oriented projects. We are inspired to provide our students with a rigorous business training that is comprehensive, practical, and grounded in social and environmental responsibility.

Our goal is to educate students for lifelong learning. Our curriculum emphasizes critical thinking and communication skills stressing integration of business disciplines with concentrations in accounting, economics, finance, marketing, and new venture management.

Humboldt State University is committed to teaching in small classes. Business students learn to produce professional quality written assignments and oral presentations delivered in a realistic business setting.

Business students apply a wide-range of computing skills, including projects that develop their information research capability.

Acquisition, analysis, and presentation of statistical data are quantitative skills that get special emphasis in our program.

Business majors can participate in student club activities, in internships, and in other special events that provide professional, practical experience.

## Preparation

High school students should follow preparation requirements for the CSU system.

Community college students should take approved substitutes for lower division core courses. Community college courses may not be transferred to fulfill upper division core or concentration requirements.

Consult your community college advisor or contact the School of Business if you have questions about transfer credit for business courses.

## REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### Unit Requirements

**Core units:** 39  
**Concentration units:** 22-24  
**Total units in the major:** 61-63  
**Total units required for the degree:** 120

### Special Grade Requirement

Students must earn a minimum grade of C- in all required courses.

### Core Courses (39 units)

*The following core courses are required for all majors.*

#### Lower Division

BA 210	(4) Legal Environment of Business
BA 250	(4) Financial Accounting
BA 252	(4) Management Accounting
ECON 210	(4) Principles of Economics
MATH 104	(3) Finite Mathematics, <b>or</b>
MATH 104i	(3) Finite Mathematics with Integrated Support [coreq: MATH 4]

#### Upper Division

BA 322	(4) Business Analytics
BA 340	(4) Principles of Marketing
BA 360	(4) Principles of Finance
BA 370	(4) Principles of Management
BA 496	(4) Strategic Management

## Concentrations (22-24 units)

*Select one of the concentrations listed below and complete all requirements. Check with the department office or with an advisor regarding the availability of concentration courses.*

### Accounting Concentration (24 units)

BA 450	(4) Intermediate Financial Accounting
<i>Complete five courses (20 units) from:</i>	
BA 451	(4) Advanced Financial Accounting
BA 452	(4) Cost Accounting, Planning & Control
BA 453	(4) Tax Accounting
BA 454	(4) Financial Statement Auditing
BA 455	(4) Governmental & Nonprofit Accounting
BA 456	(4) Accounting Ethics

### Economics Concentration (22 units)

BA 332	(4) Intermediate Business Statistics
ECON 310	(4) Intermediate Microtheory & Strategy
ECON 311	(4) Intermediate Macroeconomics
ECON 435	(4) Principles of Money & Banking
ECON 490	(2) Capstone Experience
Elective	(4) Economics course plus Additional Depth (see advisor).

*Students seeking a baccalaureate in business administration with a concentration in economics may not also receive a minor in economics.*

### Finance Concentration (24 units)

BA 332	(4) Intermediate Business Statistics
BA 460	(4) Investment Management
BA 462	(4) Problems in Financial Management
BA 464	(4) International Business Finance
BA 468	(4) Capital Budgeting
ECON 435	(4) Principles of Money & Banking

### Marketing Concentration (24 units)

BA 441	(4) Retailing & Services Marketing
BA 444	(4) International Marketing

BA 445	(4) Marketing Communications
BA 446	(4) Marketing Research
BA 447	(4) E-Commerce/ E-Marketing Strategy
BA 448	(4) Consumer Behavior

### New Venture Management Concentration (24 units)

Complete five of the following six courses (20 units).

BA 401	(4) Advanced Sustainable Management Applications
BA 430	(4) Introduction to New Ventures
BA 431	(4) Global E-Commerce Entrepreneurship
BA 433	(4) Service Venture Management
BA 437	(4) Entrepreneurial Analytics & Technology
ECON 309	(3) Economics of a Sustainable Society <b>and</b>
ECON 309D	(1) Economics of a Sustainable Society - Additional Depth

### Senior Experience

Complete one of the following courses (4 units)

BA 438	(4) Applications in Entrepreneurship
BA 439	(4) New Venture Consulting

### Electives for Concentrations

These courses may be taken as substitutions upon advisor approval.

BA 106	(3) Advocating for Sustainability <b>and</b>
BA 106D	(1) Advocating for Sustainability Add'l Depth
BA 120	(1) Business Essentials
BA 304	(3) Business Psychology
BA 430	(4) Introduction to New Ventures
BA 438	(4) Applications in Entrepreneurship
BA 439	(4) New Venture Consulting

### REQUIREMENTS FOR THE MINOR

A minor in business can complement your existing major by adding practical applied skills that are useful for the job market.

### Special Grade Requirement

Students must earn a minimum grade of C- in all required courses.

**Total units required for the minor: 18**

Complete a minimum of 18 units, 9 of which must be upper division. The following are suggested tracks for a minor:

### Accounting/Finance Track

BA 250	(4) Financial Accounting
BA 252	(4) Management Accounting
BA 360	(4) Principles of Finance
BA 453	(4) Tax Accounting
BA 460	(4) Investment Management

### General Business Track

BA 105	(3) Critical Thinking in Organizations
BA 210	(4) Legal Environment of Business
BA 340	(4) Principles of Marketing
BA 370	(4) Principles of Management
BA 401	(4) Advanced Sustainable Management Applications

### Marketing Track

BA 105	(3) Critical Thinking in Organizations
BA 340	(4) Principles of Marketing
BA 444	(4) International Marketing
BA 445	(4) Marketing Communications
BA 448	(4) Consumer Behavior

### MBA Track

STAT 108	(3) Elementary Statistics, <b>or</b>
STAT 108i	(3) Elementary Statistics with Integrated Support [Coreq: STAT 8]
BA 250	(4) Financial Accounting
BA 340	(4) Principles of Marketing
BA 360	(4) Principles of Finance
BA 370	(4) Principles of Management

### New Venture Management Track

BA 105	(3) Critical Thinking in Organizations
BA 370	(4) Principles of Management
BA 430	(4) Introduction to New Ventures
BA 431	(4) Global E-Commerce Entrepreneurship
BA 433	(4) Service Venture Management

**NOTE:** Students who minor in Business Administration, who also intend to enter HSU's MBA program, must take ECON 210 Principles of Economics as an additional class.

*Before completing two courses in the program, students must meet with the minor advisor.*

### THE MASTER OF BUSINESS ADMINISTRATION PROGRAM

The program focuses on the long term strategic elements of sustainability. We analyze innovative companies that are creating new paradigms of how to create value in sustainable operations.

Students completing this program will have demonstrated the ability to:

- integrate core business concepts with sustainability concepts and frameworks
- apply and evaluate a variety of sophisticated empirical methods to analyze/test strategic sustainability business issues
- think critically and engage in ethical reasoning
- communicate complex business and sustainability concepts clearly and persuasively in writing, presentation, and teamwork.

*Graduate students must maintain a 3.00 minimum GPA. No grade less than a B- will count for progress toward the degree.*

Sustainability is the most important issue of the 21st century. Businesses today are looking for ways to minimize their social and environmental impact while remaining economically viable. As a result they are looking to hire a new type of MBA graduate — one with the skills and desire to promote economic environmental and social responsibility within their organization.

Our MBA is designed for students from any undergraduate major. For students with an undergraduate major in the natural, environmental, or social sciences, adding functional business skills to their existing degree can help boost career success.

Qualified students with an undergraduate business degree may receive a paid graduate research assistantship to collaborate with a faculty member on cutting-edge research projects in finance, accounting, marketing, or management. The resulting conference presentations or publications in academic journals position our students for success in the job market. The graduate program can be completed in one year for full time students.

HSU has a long commitment to social and environmental responsibility. Our MBA program builds on that tradition by challenging our students to grow into innovative and responsible business leaders. We focus on big picture, long term thinking by analyzing accounting, financial, and marketing and strategic management issues based on the best practices of innovative organizations. Our creative entrepreneurial culture fosters critical systems thinking, effective communications, ethical reasoning, and team building.

Qualified students admitted to the program may receive a scholarship and qualified students may receive a paid internship.

Current MBA admission requirements are available on the School of Business website [business.humboldt.edu](http://business.humboldt.edu).

## Prerequisite Courses (16 units)

### Accounting

BA 250 (4) Financial Accounting  
[or equivalent]

### Economics

ECON 210 (4) Principles of Economics  
[or equivalent]

### Finance

BA 360 (4) Principles of Finance  
[or equivalent]

### Statistics

STAT 108 (3) Elementary Statistics  
[or equivalent]

Applicants must complete all the degree requirements shown above before enrolling in MBA courses.

## REQUIREMENTS FOR THE DEGREE

### Master of Business Administration

*For a description of degree requirements to be fulfilled in addition to those listed below, see "The Master's Degree" on page 83.*

**Total units required for the degree: 32**

### Required Courses

*Complete all the following courses.*

#### Fall Semester (12 units)

MBA 605 (4) Strategic Sustainability  
Foundations

MBA 610 (4) Research Methods

MBA 620 (4) Accounting for Corporate  
Social Responsibility

#### Spring Semester (12 units)

MBA 630 (4) Marketing Management  
for Shared Value

MBA 640 (4) Financial Management  
for Sustainable Growth

MBA 650 (4) Designing Sustainable  
Organizations

#### Summer Capstone Term (8 units)

MBA 675 (4) Sustainability/Ethics

MBA 679 (4) Strategic Analysis

MBA 691 (0) MBA Comprehensive  
Exam \*

\*Master's Capstone Project (MBA 692) available upon approval of the MBA program coordinator and faculty advisor at the beginning of the program.

### Optional

MBA 682 (1-4) Business Internship



# CHEMISTRY

## **Bachelor of Science degree with a major in Chemistry**

## **Bachelor of Science degree with a major in Chemistry – concentration in Biochemistry**

## **Bachelor of Arts degree with a major in Chemistry**

## **Minor in Chemistry**

### **Department Chair**

Matthew Hurst, Ph.D.

### **Department of Chemistry**

Science Complex A 470

707-826-3277

[humboldt.edu/chemistry](http://humboldt.edu/chemistry)

### **The Program**

Students completing this program will have demonstrated:

- understanding of what chemistry reveals about the nature of physical reality
- proficiency in abstract reasoning
- sound abilities in written and oral communications
- understanding of and use of physical and mathematical models
- understanding of the relationship of experimental observation to chemical theory and knowledge
- proficiency in spatial perception
- critical independent thinking
- chemical knowledge and skills needed in chemistry as well as in other disciplines
- breadth, depth, and rigor characteristic of a professional chemist
- proficiency and skill in performing laboratory techniques and in making and interpreting laboratory observations
- understanding of the theory and operation of fundamental modern laboratory instruments.

Students majoring in chemistry may choose either a Bachelor of Science or a Bachelor of Arts degree. Both degrees offer excellent preparation for graduate study and professional schools.

The BS degree with a major in chemistry fulfills requirements for professional training established by the American Chemical Society. Students may choose the biochemistry concentration, which prepares them for careers in biochemistry and related fields, as well as for graduate study.

Students who choose the BA program find less specialization in chemistry and greater

opportunity for study in other fields. This program is recommended for students wanting a standard teaching credential with specialization in secondary school teaching.

Potential careers: analytical chemist, biotechnologist, nutritionist, food and drug inspector, toxicologist, organic or inorganic chemist, medical technologist, genetic engineer, physical chemist, pharmacologist, science librarian, biochemist, forensic chemist, sanitarian, geochemist, environmental consultant, chemical engineer.

### **Preparation**

High school students should take chemistry, English, and mathematics.

### **REQUIREMENTS FOR THE MAJOR Chemistry (BS)**

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### **Modifications to General Education Requirements**

*The Upper Division Area B General Education requirement is met by the coursework within the Bachelor of Science degree for either option in the Chemistry major.*

### **Special Grade Requirement**

*Students must complete all courses in the major with a C- or better.*

### **Unit Requirements**

**Core units:** 57  
**Chemistry/Biochemistry:** 21/26  
**Total units in the major:** 78/83  
**Total units required for the degree:** 120

### **Core Courses (57 units)**

*The following core courses are required for all chemistry (BS) majors.*

#### **Lower Division Core**

CHEM 109 (5) General Chemistry I  
CHEM 110 (5) General Chemistry II  
MATH 109 (4) Calculus I  
MATH 110 (4) Calculus II  
MATH 210 (4) Calculus III  
PHYX 109 (4) General Physics A  
PHYX 210 (4) General Physics B  
PHYX 211 (4) General Physics C

#### **Upper Division Core**

CHEM 323 (1) Nuclear Magnetic Resonance Spectroscopy Techniques

CHEM 324 (3) Organic Chemistry I  
CHEM 324L (2) Organic Chemistry I Lab  
CHEM 325 (3) Organic Chemistry II  
CHEM 325L (2) Organic Chemistry II Lab  
CHEM 341 (5) Quantitative Analysis  
CHEM 361 (3) Physical Chemistry I  
CHEM 362 (3) Physical Chemistry II  
CHEM 485 (1) Seminar in Chemistry

### **Chemistry (21 units)**

*Complete the following upper division courses to fulfill the requirements of the chemistry major (no concentration).*

CHEM 310 (3) Inorganic Chemistry I  
CHEM 330 (3) Molecular Modeling  
CHEM 363 (2) Physical Chemistry II Lab  
CHEM 410 (3) Inorganic Chemistry II  
CHEM 410L (2) Inorganic Chemistry II Lab  
CHEM 438 (4) Introductory Biochemistry  
CHEM 441 (4) Instrumental Analysis

### **Biochemistry Concentration (26 units)**

*Complete the following courses to fulfill the requirements of the chemistry major with a concentration in biochemistry.*

#### **Lower Division**

BIOL 105 (4) Principles of Biology  
BOT 105 (4) General Botany, **or**  
ZOO 110 (4) Introductory Zoology

#### **Upper Division**

CHEM 434 (3) Biochemistry I  
CHEM 434L (2) Biochemistry I Lab  
CHEM 435 (3) Biochemistry II  
CHEM 435L (2) Biochemistry II Lab  
BIOL 340 (4) Genetics  
BIOL 412 (4) General Microbiology, **or**  
BOT 310 (4) Gen. Plant Physiology, **or**  
ZOO 310 (4) Animal Physiology

### **REQUIREMENTS FOR THE MAJOR Chemistry (BA)**

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### **Unit Requirements**

**Total units in the major:** 54-71  
**Total units required for the degree:** 120

### **Special Grade Requirement**

*Students must earn a minimum grade of C- in all courses with the "CHEM" prefix for the BA Chemistry Major degree.*

### Lower Division

CHEM 109 (5) General Chemistry I  
CHEM 110 (5) General Chemistry II

*Complete one of these calculus series:*

- MATH 105 (3) Calculus for the Biological Sciences & Natural Resources  
MATH 215 (3) Multivariate Calculus for the Biological Sciences & Natural Resources
- MATH 109 (4) Calculus I  
MATH 110 (4) Calculus II  
MATH 210 (4) Calculus III

*Complete one of these physics series:*

- PHYX 106 (4) College Physics: Mechanics and Heat  
PHYX 107 (4) College Physics: Electromagnetism & Modern Physics
- PHYX 109 (4) General Physics A  
PHYX 210 (4) General Physics B  
PHYX 211 (4) General Physics C

### Upper Division

CHEM 310 (3) Inorganic Chemistry I  
CHEM 323 (1) Nuclear Magnetic Resonance Spectroscopy Techniques  
CHEM 324 (3) Organic Chemistry I  
CHEM 324L (2) Organic Chemistry I Lab  
CHEM 325 (3) Organic Chemistry II  
CHEM 325L (2) Organic Chemistry II Lab  
CHEM 341 (5) Quantitative Analysis  
CHEM 361 (3) Physical Chemistry I

*Complete one of the following:*

- CHEM 362 (3) Physical Chemistry II  
CHEM 363 (2) Physical Chemistry II Lab
- CHEM 410 (3) Inorganic Chemistry II  
CHEM 410L (2) Inorganic Chemistry II Lab
- CHEM 441 (4) Instrumental Analysis

*Complete one of the following:*

- CHEM 438 (4) Introductory Biochemistry
- CHEM 434 (3) Biochemistry I  
CHEM 434L (2) Biochemistry I Lab  
CHEM 435 (3) Biochemistry II  
CHEM 435L (2) Biochemistry II Lab

### REQUIREMENTS FOR THE MINOR

**Total units required for the minor: 25**

#### Special Grade Requirement

Students must earn a minimum grade of C- in all courses with the "CHEM" prefix for the chemistry minor.

#### Lower Division

CHEM 109 (5) General Chemistry I  
CHEM 110 (5) General Chemistry II

#### Upper Division

*Complete 15 approved units, including at least one of the following sequences. A minimum of 8 upper division units must be earned at HSU.*

- CHEM 323 (1) Nuclear Magnetic Resonance Spectroscopy Techniques  
CHEM 324 (3) Organic Chemistry I  
CHEM 324L (2) Organic Chemistry I Lab  
CHEM 325 (3) Organic Chemistry II  
CHEM 325L (2) Organic Chemistry II Lab
- CHEM 341 (5) Quantitative Analysis  
CHEM 441 (4) Instrumental Analysis
- CHEM 361 (3) Physical Chemistry I  
CHEM 362 (3) Physical Chemistry II  
CHEM 363 (2) Physical Chemistry II Lab
- CHEM 434 (3) Biochemistry I  
CHEM 434L (2) Biochemistry I Lab  
CHEM 435 (3) Biochemistry II  
CHEM 435L (2) Biochemistry II Lab

For the required 15 units, all of the above courses and the following courses are approved for all students:

CHEM 310 (3) Inorganic Chemistry I  
CHEM 330 (3) Molecular Modeling  
CHEM 370 (3) Earth System Chemistry  
CHEM 410 (3) Inorganic Chemistry II  
CHEM 410L (2) Inorganic Chemistry II Lab  
CHEM 495 (1-3) Undergraduate Research

The following courses are approved for all students except those listed:

CHEM 228 (4) Brief Organic Chemistry

*[not approved for students getting credit for CHEM 324/324L or 325/325L]*

CHEM 438 (4) Introductory Biochemistry

*[not approved for students getting credit for CHEM 434/434L or 435/435L]*



# CHILD DEVELOPMENT & FAMILY RELATIONSHIPS

## Bachelor of Arts degree

### with a major in Child Development & Family Relationships –

concentrations in Child & Family Services, Teaching, and Specialized Studies

## Minor in American Indian Education

(see American Indian Education)

## Minor in American Sign Language and Special Populations

(see American Sign Language & Special Populations)

## Minor in Early Childhood Development

## Minor in Family Studies

(see Family Studies)

## Department Chair

Dr. Kishan Lara-Cooper

## Department of Child Development

Harry Griffith Hall 229

707-826-3471

childdev@humboldt.edu

childdev.humboldt.edu

## The Program

Students completing this program will have demonstrated:

- description of the principles and patterns of growth and development in the cognitive, physical and motor, communicative, emotional, and social domains
- critical evaluation of literature germane to child development (theories, research, historical viewpoints, current viewpoints, contemporary trends, assumptions, practices)
- identification and evaluation of the variety of factors that influence children's development (personal, familial, social)
- knowledge about child development related professions (services, common foundation, opportunities for collaboration)
- practical skills in working with children (assessment instruments, guidance approaches)
- skills required of professionals in the field (interpersonal communication, collaboration, reflection, ethics, personal decision making, advocacy, writing, presenting, and using information technology).

The Child Development & Family Relationships major focuses on the ever-growing body of knowledge about children and its applications to provide a holistic approach to the study of children from birth to age 18. This major provides the basis for a variety of careers including, preschool or elementary teacher, after-school program leader, child abuse prevention worker, civilian employee for military

base family/child services, consultant for employer-sponsored child/family program, early childhood special education teacher, home visitor for at-risk families, infant/toddler intervention worker, licensing representative, parent educator, Peace Corps/Americorps volunteer, public policy advocate, recreation leader, researcher, resource and referral coordinator, social worker, special education teacher, youth services coordinator, university professor.

Humboldt's program is unique among the child development programs in the CSU system in that:

- core courses (which all students take) give cohesive and comprehensive attention to children's development and socialization;
- an on-campus practicum is required;
- additional practicums with children or families are available in the emphasis areas;
- coursework beyond the core is based on the student's own identified special interests.

In core courses students learn basic principles and theories of child development as well as practices that support children and families. Students select one of the following three concentrations: Child and Family Services, Teaching or Specialized Studies. Within the first two concentrations, students also select an emphasis. The Specialized Studies concentration is individually designed between student and advisor.

## Preparation

High school students should take courses in history, political science, English, and speech.

The **Early Childhood CAP (Curriculum Alignment Project)** transfer package includes a foundational core of eight courses: Child Growth and Development, Child, Family and Community, Introduction to Curriculum, Principles and Practices of Teaching Young Children, Observation and Assessment, Health, Safety and Nutrition, Teaching in a Diverse Society, and Practicum.

Transfer students who have completed an approved 24-unit CAP transfer package, should follow the plan of study below to complete the Child Development core and Specialized Studies concentration at Humboldt State within two years of full-time study if lower division education coursework is also complete.

## REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below

for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82. The Upper Division Area D General Education requirement is met by the coursework within the major.

## Special Grade Requirement

Students must earn a minimum grade of C- in all courses required for the major, including core, concentration, and emphasis.

## Unit Requirements

Core units: 34-35

Concentration units: 24-30

Total units in the major: 58-66

Total units required for the degree: 120

## Core Courses (34-35 units)

The following core courses are required for all CDFR majors. See the major academic plan for the suggested course sequence. (There may be scheduling problems that delay graduation if 200- and 300-level courses are postponed.)

Complete one of the following courses, (Course must be selected in consultation with major advisor.)

CD 209*	(3) Middle Childhood Development
CD 253*	(3) Prenatal & Infant Development
CD 255*	(3) Early Childhood Development
PSYC 414‡	(3) Psychology of Adolescence & Young Adulthood

Complete the following courses.

CD 211	(3) Perspectives: Professional Development, <b>or</b>
CD 211S	(3) Perspectives: Professional Development
CD 257*	(4) Supervised Work with Children I
CD 310	(3) Perspectives: History & Theory, <b>or</b>
AIE 330	(3) History of Indian Education
CD 350	(3) Perspectives: Life-Span Development
CD 354	(3) Methods of Observation

‡ Course requires one or more prerequisites that are not required elsewhere in the major.

\*CAP transfer students: consult major advisor

CD 355	(3) Language Development, <b>or</b>
COMM 422	(4) Children's Communication Development
CD 366	(3) Exceptional Children & Their Families
CD 469	(3) Contemporary Issues in Child Development
CD 479	(3) Policy Analysis & Advocacy
<i>Complete one of the following courses.</i>	
CD 467	(3) Working with Culturally Diverse Families
CD 467S	(3) Working with Culturally Diverse Families
AIE 335	(3) Social & Cultural Considerations

### Concentrations (24-30 units)

Complete **one** concentration to fulfill the requirements of the major.

#### Child & Family Services Concentration (24 units)

CD 251	(3) Children, Families & their Communities
CD 352	(3) Parent/Child Relationships

#### Elective Courses (18 units)

In consultation with their major advisor, students select 18 units of coursework in a discipline that provides a foundation for their educational and professional goals. Commonly selected disciplines include American Indian education, child development, kinesiology, psychology, recreation, and social work. Courses may be selected to meet job licensing requirements, certificate requirements, graduate school entrance requirements, professional development opportunities or other specialized needs or interests.

#### Teaching Concentration (24-30 units)

CD 356	(3) Curriculum Development for Early Childhood
CD 357	(3) Early Literacy
CD 358	(4) Supervised Work with Children II
CD 446	(3) Structure & Content of Children's Thinking

*Complete 2 units of the following:*

CD 482	(1-4) Directed Field Experience / Internship
--------	--

‡ Course requires one or more prerequisites that are not required elsewhere in the major.

\*CAP transfer students: consult major advisor

### Emphases

Select one emphasis within the teaching concentration and complete all requirements.

#### Early Childhood Education & Care Emphasis

CD 251	(3) Children, Families & Their Communities
CD 352	(3) Parent/Child Relationships
CD 362	(3) Children and Stress, <b>or</b>
CD 464	(3) Atypical Child Development

**Note:** Students completing this emphasis qualify to apply for the California Commission on Teacher Credentialing Child Development Permit at the Site Supervisor level. To move to the program director level of the permit, students must complete 6 units in early childhood administration and 2 units in adult supervision. In addition, they need at least one year of documented experience as a site supervisor.

#### Elementary Education Emphasis

ART 358	(3) Art Structure
KINS 475	(3) Elementary School Physical Education
MATH 308B	(3) Mathematics for Elementary Education
MATH 308C	(3) Mathematics for Elementary Education
SCI 331	(3) Fundamental Concepts in Science Education

**Note:** Students completing this emphasis qualify to apply for the California Commission on Teacher Credentialing Child Development Permit at the Site Supervisor level with a School Age emphasis. Students are also well prepared for Elementary Education Credential programs to become elementary school teachers.

For information about a specific California Teacher Credentialing Subject Matter program, see separate information on the Child Development Elementary Education Program.

#### Special Education/Early Intervention Emphasis

CD 352	(3) Parent/Child Relationships
<i>Complete two of the following courses.</i>	
CD 109Y	(3) American Sign Language I, <b>or</b>
CD 109Z	(3) American Sign Language II
CD 362	(3) Children and Stress
CD 464	(3) Atypical Child Development
PSYC 418‡	(3) Developmental Psychopathology

### Specialized Studies Concentration (24 units)

This individually designed concentration is used by students who have very specific career goals such as child life specialist, speech pathologist, infant/family/early childhood mental health, or family life educator; and require specialized preparation and/or post-graduate studies.

#### Specialized Studies for CAP Transfers.

Students who have completed the California Curriculum Alignment Project (CAP) approved 24-unit early childhood transfer package should take CD 482 and consult with an advisor.

*Complete 3 units from the following:*

CD 482*	(1-4) Directed Field Experience/ Internship, or
CD 499	(1-4) Directed Study

#### Elective Courses (21 units)

*Complete 21 units that provide:*

- a strong disciplinary perspective,
- a clear theme with regard to practices with children and families, and
- any known prerequisites for anticipated graduate work.

#### Programs Leading to Licensure & Credentialing

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or taxpayer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees or any associated costs to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Office of Academic Affairs, Siemens Hall 216, 707-826-3722.

## REQUIREMENTS FOR THE MINOR

### Early Childhood Development

Total units required for the minor: 15

This minor provides a background in the development of children from birth through age eight with a focus on four interrelated areas. The minor is useful to those wishing to work with children and families. Students must complete courses in the following areas:

#### Growth & Development

Complete two of the following courses:

- CD 253 (3) Prenatal & Infant Development
- CD 255 (3) Early Childhood Development
- CD 350 (3) Perspectives: Life-Span Development

Completion of one of the above courses is a prerequisite to all other courses in the minor.

#### Guidance & Discipline

Complete one course.

- CD 257 (4) Supervised Work with Children I
- CD 354 (3) Methods of Observation

#### Special Needs of Children

Complete one course.

- CD 362 (3) Children & Stress
- CD 366 (3) Exceptional Children & Their Families
- CD 464 (3) Atypical Child Development

#### Family Relations

Complete one course.

- CD 251 (3) Children, Families and Their Communities
- CD 352 (3) Parent/Child Relations [DCG-d]
- CD 467 (3) Working with Culturally Diverse Families [DCG-d]

#### Child Development Permit

Students who minor in early childhood development may wish to explore requirements for the Child Development Permit, issued by the California Commission on Teacher Credentialing and required for teaching preschool children in state and federally funded programs in California. For permit eligibility and application procedures visit the Child Development Training Consortium's website at [childdevelopment.org](http://childdevelopment.org) or the California Commission on Teacher Credentialing website at [ctc.ca.gov/credentials/CREDS/child-dev-permits.html](http://ctc.ca.gov/credentials/CREDS/child-dev-permits.html).



# CHILD DEVELOPMENT / ELEMENTARY EDUCATION [LIBERAL STUDIES]

**Bachelor of Arts degree  
with a major in Liberal Studies –  
concentration in Child Development  
/Elementary Education**

*This program is distinct from the Child Development (Liberal Studies) and Liberal Studies/Elementary Education programs.*

**Department Chair**  
Dr. Kishan Lara-Cooper

**Department of Child Development**  
Harry Griffith Hall 229  
707-826-3471  
childdev@humboldt.edu  
childdev.humboldt.edu

## **The Program**

This program is designed for students who wish to become elementary school teachers. It is recommended for transfer students preparing for elementary school teaching. Completion of the Child Development/Elementary Education program (CDEE) requirements also satisfies Humboldt's general education, institutions, and diversity/common ground requirements.

CDEE has several distinct features:

- Students take the traditional disciplines taught in elementary schools alongside courses focusing on developmental characteristics of children.
- The program emphasizes working with children from grades K-6.
- Students learn how classroom, school, home, and community impact the child and the learning process.
- Courses explore different philosophies of education but emphasize those that see children as active learners.
- Students explore careers to clarify their professional goals.
- Students participate in multiple supervised classroom experiences.

Elementary school teachers must be able to teach children basic subjects, but they must also integrate social studies; the visual and performing arts; health and physical education; life, physical, and earth sciences; and literature. CDEE uses the liberal arts to give students background in content areas they will teach. Simultaneously, child development courses orient them to the children with whom they will work.

The depth of study area focuses on teaching 5- to 9-year-old children enrolled in kindergarten through third grade. It provides in-depth exposure to theories and methodologies that consider children as capable and active learners who construct knowledge through meaningful experiences.

The CDEE concentration encourages frequent self-assessment and guided career exploration. Supervised experiences in children's classrooms are key. CDEE students acquire guidance and discipline skills and prepare developmentally appropriate curriculum while working in early primary classrooms.

For admission requirements to a postbaccalaureate credential program, contact the campus credential program of choice. CDEE students must complete all required courses with a grade of C- or better and have at least a 2.7 overall grade-point average.

The CCTC requires all majors to complete subject-matter assessment. The assessment (conducted before the student's final

semester) is required before entering, and in some cases applying for, any CCTC-approved credential programs. (See Education for admission requirements to Humboldt's elementary education credential program.)

## **REQUIREMENTS FOR THE MAJOR**

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

*Must see Child Development advisor for requirements.*

**Core Liberal Arts**  
(specific GE requirements)

**Child Development Core Courses** (34 units)

Child Development major includes growth and development courses, practicums with children, and depth of studies options.



## **Programs Leading to Licensure & Credentialing**

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or taxpayer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees or any associated costs to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Office of Academic Affairs, Siemens Hall 216, 707-826-3722.

# CHINESE STUDIES MINOR

## Minor in Chinese Studies

### Department Chair

Joseph Diémé, Ph.D.

### Program Director

Joseph Diémé, Ph.D.

### Department of World Languages & Cultures

Behavioral & Social Sciences 206  
707-826-3226, fax 826-4320  
wlc.humboldt.edu

### The Program

The minor in Chinese Studies, housed in the Department of World Languages and Cultures, is characterized by its interdisciplinary nature. It consists of a minimum of 25 credit units including core and elective classes. The minor program gives students a language experience and solid cultural base upon which to build an understanding of Chinese culture and society. Additionally, students are encouraged to participate in authorized programs abroad to complete minor requirements. Selection of courses is to be made with the counsel of a Chinese Studies faculty advisor.

**Special Scholarship and Awards.** The Department of World Languages and Cultures has three permanent scholarships and awards:

- The Benavides-Garb Family International Travel Award
- The Joe and Helen Bottino Memorial Travel Award
- The Frank B. Wood Scholarship

All language students are encouraged to apply for these important scholarships and awards to enhance language studies with an international residence. See the department web page for further information.

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: 25

### Core Courses (11 units)

Complete the following three courses.

CHIN 105 (4) Chinese Level I  
CHIN 106 (4) Chinese Level II  
CHIN 109 (3) Introduction to Chinese Studies

### Chinese Program Courses (5 units)

Complete a minimum of 5 units selected from the following list:

CHIN 107 (4) Chinese Level III  
CHIN 207 (4) Chinese Level IV  
CHIN 280 (1-4) Special Topics  
CHIN 396 (1) Chinese Film Seminar  
CHIN 480 (1-4) Special Topics

### Interdisciplinary Courses (9-12 units)

Complete a minimum of three courses (9-12 units) from the following list:

ANTH 307 (3) World Heritage & Archaeology  
ANTH 390 (4) Chinese Cultural Heritage Seminar  
GEOG 472 (1-4) China & Inner Asia  
HIST 329 (4) Imperial China  
HIST 338 (4) Modern Chinese History  
PHIL 345 (3) Philosophies of China

Courses offered by various departments, often under the rubric of Special Topics, may be relevant and appropriate to the Chinese Studies minor. Such courses will be approved by the Chinese Studies faculty advisor on a case-by-case basis.

### Study Abroad Options

Students pursuing a Chinese Studies Minor are strongly encouraged to participate in an HSU or CSU study abroad program in China. They may study for one semester or one year. Classes taken in such programs can be counted toward the minor upon prior consultation and approval by a Chinese Studies faculty advisor.

The cost of the residency abroad varies according to the program and world region. Students should understand the costs involved and plan ahead. Consult with the HSU Center for International Programs.



# COMMUNICATION

## Bachelor of Arts degree with a major in Communication

### Minor in Communication

#### Department Chair

Maxwell Schnurer, Ph.D.

#### Department of Communication

Telonicher House, Room 101

707-826-3261

communication.humboldt.edu

### The Program

Students completing this program will have demonstrated:

- the ability to present an original, formal, and researched speech
- competence in reflective analysis of persuasive discourse
- basic competency in written communication
- understanding of diversity in relationship to communication
- fundamental understanding of how knowledge is generated in the communication discipline.

Communication majors develop understanding of communication codes, communication and influence, interpersonal and small group communication processes, public communication, cultural differences in communication, and applied communication in work contexts.

The communication major helps graduates develop skills to become more effective advocates, leaders, decision makers, and citizens.

Communication students can become involved in active learning processes inside and outside the classroom. The Communication Club is open to all; honorary society chapters are available for those who excel. The intercollegiate speech and debate program travels throughout the West Coast, where students participate in both debate and individual-events tournaments.

Communication graduates excel in many career fields, including education, law, business management, marketing, public relations, human relations, social advocacy, communication consulting, and training and development.

### Preparation

High school courses in English, speech, and debate are useful preparation, but are not necessary.

## REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

The department highly recommends that majors take the following course to fulfill GE Area A: Critical Thinking.

COMM 103 (3) Critical Listening & Thinking

### Unit Requirements

**Total units in the major: 45**

**Total units required for the degree: 120**

#### Introduction to the Field

COMM 105 is a prerequisite/corequisite for many upper division courses in this program.

COMM 105 (3) Introduction to Human Communication

#### Public Communication Skills

Complete 6 units from the following:

COMM 108 (3) Oral Interpretation

COMM 110 (1-3) Intercollegiate Speech & Debate\*

COMM 310 (1-3) Advanced Intercollegiate Speech & Debate\*

COMM 214 (3) Persuasive Speaking

#### Personal Communication Skills

Complete one course:

COMM 213 (3) Interpersonal Communication

COMM 312 (4) Group Communication

COMM 324 (4) Nonverbal Communication

#### Cultural Studies

Complete one course.

COMM 222 (4) Intercultural Communication [DCG-d]

COMM 309B (3) Gender & Communication [DCG-d]

#### Communication & Society

Complete one course:

COMM 300 (3) American Public Discourse [DCG-d]

COMM 315 (4) Communication & Social Advocacy [DCG-d]

#### Research Methods

COMM 319 (4) Communication Research

#### Applied Communication

Complete one course:

COMM 411 (4) Organizational Communication

COMM 416 (3) Social Advocacy Theory & Practice

## Theories of Communication

Complete two courses:

COMM 404 (4) Theories of Communication Influence

COMM 414 (4) Rhetorical Theory

COMM 415 (4) Communication Theory

## Special Topics

Complete one 3- or 4-unit course. (Lower unit COMM 480 courses may be used as electives, but will not meet this requirement.)

COMM 480 (1-4) Seminar in Speech Communication

## Upper Division Electives

Complete as many upper-division courses as needed to meet the 45 units required for the major.

COMM 300 (3) American Public Discourse [DCG-d]

COMM 309B (3) Gender & Communication [DCG-d]

COMM 310 (1-3) Advanced Intercollegiate Speech & Debate\*

COMM 312 (4) Group Communication

COMM 315 (4) Communication & Social Advocacy [DCG-d]

COMM 324 (4) Nonverbal Communication

COMM 404 (4) Theories of Communication Influence

COMM 414 (4) Rhetorical Theory

COMM 415 (4) Communication Theory

COMM 416 (3) Social Advocacy Theory & Practice

COMM 472 (1) Convention Experience

COMM 480 (1-4) Seminar in Speech Communication

COMM 495 (1-6) Field Experiences in Speech Communication (3-unit max. toward fulfilling major requirements)

COMM 499 (1-4) Directed Study (3-unit max.)

## Capstone

COMM 490 (2) Capstone Experience

\* No more than 3 units of COMM 110/COMM 310 may be counted to fulfill this requirement and a total of no more than 4 units may be used to meet major requirements.

## **REQUIREMENTS FOR THE MINOR**

**Total units required for the minor: 12**

Complete 12 units of communication (COMM) courses, with 6 units from upper division courses. No more than 3 units from activity courses counted toward the minor.

If used for general education, COMM 100 Fundamentals of Speech Communication and COMM 103 Critical Listening & Thinking cannot be used to met the 12 units required for the minor.



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# COMPUTER SCIENCE

## Bachelor of Science degree with a major in Computer Science

### Minor in Computer Science

#### Department Chair

Bori Mazzag, Ph.D.

#### Department of Computer Science

Behavioral & Social Sciences 320

707-826-3143

csdept@humboldt.edu

humboldt.edu/computerscience

### The Program

Students who graduate from this program will have demonstrated:

- computational thinking, a way of problem solving which draws upon central computing concepts, such as abstraction, virtualization, algorithmic development and analysis, recursion, resource management, and induction
- self-directed learning, whereby graduates may maintain their currency in the field by formulating their own learning goals, identifying learning strategies, identifying available resources, implementing learning strategies, and evaluating learning outcomes
- communicating and collaborating, which pairs the written and oral skills to deliver information with the ability to respect and embrace the diversity others bring to a team
- the ability to produce and digest technical documents

The Computer Science program prepares students for roles across the breadth of computer science, in industry, service, and research. Our approach to computer science includes a rigorous and balanced core of mathematical, theoretical, and practical knowledge about computation. Students in our department spend more instructional hours on topics central to computer science than at many similar institutions, while electives in topics like robotics and Linux challenge students to deeply employ the tools of their discipline. Our approach also emphasizes active engagement of students in the learning process both in and beyond the classroom. To support this approach, faculty vigorously pursue professional development.

Majors have access to a departmental lab with a variety of language compilers, in addition to other on-campus computing resources. Our Internet Teaching Laboratory (ITL) provides an isolated network for network design experimentation and student investigations in computer security. Servers

for n-tier application development are also available to students.

Students participate in the Computer Science Club, affiliated with the national Association for Computing Machinery (ACM). Many students enjoy internship opportunities. Faculty typically hold memberships with professional organizations including the ACM, IEEE Computer Society, and the Consortium for Computing in Small Colleges.

### Job Prospects

Numerous careers are available to graduates in this major, including software engineering and development; network maintenance, implementation, and design; database design and web interface development; scientific computing; and innumerable more. Many of our students pursue graduate studies in areas such as computer graphics, parallel computing, man-machine interfaces, data communications, computational philosophy, expert systems, artificial intelligence, embedded computer applications, distributed systems, and networking.

The job forecast for computer specialists is outstanding. More than 540,000 new jobs will be created between 2018 and 2028, according to the Federal Bureau of Labor Statistics. The National Association of Colleges and Employers reports consistently high wage growth across the industry.

### Preparation

Oral and written communication skills are central to success in college science majors, including computer science. Prospective students should take as many English, speech, and mathematics courses as possible, as well as general science courses.

Students transferring from a community college should also take courses meeting the Transfer Model Curriculum (TMC) for computer science. We strive to quickly graduate students meeting the TMC and general education requirements.

### REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### Unit Requirements

**Total units in the major: 63-64**

**Total units required for the degree: 120**

### Special Grade Requirement

*A minimum grade of C- must be earned in all courses required for the major. Prerequisite courses must be passed with a minimum grade of C-.*

### Lower Division (25-26 units)

CS 111	(4) Computer Science Foundations 1
CS 112	(4) Computer Science Foundations 2
CS 211	(4) Data Structures
CS 243	(4) Architecture
STAT 108	(3) Elementary Statistics, <b>or</b>
STAT 108i	(3) Elementary Statistics with Integrated Support (with [corequisite STAT 8])
MATH 109	(4) Calculus I (preferred), <b>or</b>
MATH 105	(3) Calculus for the Biological Sciences & NR
MATH 253	(3) Discrete Mathematics

### Upper Division (32 units)

CS 312	(4) Algorithms
CS 325	(4) Database Design
CS 328	(4) Web Apps Using Databases
CS 346	(4) Telecommunications & Networks
CS 374	(4) Operating Systems
CS 449	(4) Computer Security
CS 458	(4) Software Engineering
CS 461	(4) Computational Models

### Elective Courses (6 units)

*Complete at least two elective courses from the list below, totaling at least 6 units.*

- At least one elective course must be from Computer Science (CS prefix)
- At least one elective must be an upper division course.
- The total combined units from CS 482 and CS 499 cannot count for more than 3 units of electives.

CS 232	(3) Python Programming
CS 235	(3) Java Programming
CS 237	(3) Bioinformatics Programming
CS 279	(4) Introduction to Linux
CS 280	(1-3) Selected Topics in Computing
CS 280L	(1-2) Selected Topics in Computing
CS 444	(4) Robotics
CS 480	(1-3) Advanced Topics in Computing

CS 480L (1-2) Advanced Topics in  
Computing  
CS 482 (1-4) Internship  
CS 499 (1-4) Directed Study  
GSP 318<sup>†</sup> (3) Geospatial Programming I  
MATH 351<sup>†</sup> (4) Introduction to Numerical  
Analysis  
MATH 474 (3) Graph Theory  
PHYX 316<sup>†</sup> (4) Electronic Instrumentation  
and Control Systems

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: 18

### Computer Science Foundation Courses (8 units)

CS 111 (4) CS Foundations 1  
CS 112 (4) CS Foundations 2

Appropriate substitutions may be approved by the minor advisor but the total units for the minor must equal to at least 18 units.

### Computer Science Elective Courses (10 units)

*Complete at least three approved elective courses, totaling at least 10 units.*

- General Education courses cannot be used as approved elective courses.
- The total combined units from CS 482 and CS 499 cannot count for more than 3 units toward the minor.
- At least two of the courses must be upper division computer science courses with a "CS" prefix, totaling at least 6 units. (CS 482 and CS 499 cannot be used for this upper division requirement.)
- The remaining course(s) needed to reach at least 10 units of elective courses may be lower division CS course(s), upper division CS course(s), at most 3 units combined from CS 482 and/or CS 499, or one of the following electives:

GSP 318<sup>†</sup> (3) Geospatial Programming I  
MATH 351<sup>†</sup> (4) Introduction to Numerical  
Analysis  
MATH 474 (3) Graph Theory  
PHYX 316<sup>†</sup> (4) Electronic Instrumentation  
and Control Systems



<sup>†</sup> Course requires additional prerequisites.  
Please consult with your advisor.

# CRIMINOLOGY & JUSTICE STUDIES

## Bachelor of Arts degree with a major in Criminology & Justice Studies

### Department Chair

Renée Byrd, Ph.D.

### CJS Coordinator

Michihiro Clark Sugata, Ph.D.

### Department of Sociology

Behavioral & Social Sciences 518  
707-826-3139  
sociology.humboldt.edu

### Affiliated Research Institutes

Altruistic Personality and Prosocial  
Behavior Institute

California Center for Rural Policy (CCRP)

Humboldt Institute for Interdisciplinary  
Marijuana Research (HIIMR)

Humboldt Journal of Social Relations (HJSR)

### The Program

Students completing a BA in Criminology and Justice Studies will have demonstrated the following program learning outcomes:

- Effectively communicate orally about social science theory and methods (oral communication)
- Effectively communicate in writing about social science theory and methods (information literacy)
- Think theoretically about crime, justice, and the process and significance of criminalization (social justice)
- Explain the historical evolution of law in relation to social, economic, and political forces (critical thinking – theory)
- Evaluate research designs and analytic techniques (critical thinking – methods)

Criminology & Justice Studies (CJS) students find an active and supportive department culture with a curriculum intentionally focused on a critical criminology perspective. Critical criminology challenges traditional understandings and seeks to unearth the social and historical processes that constitute 'crime'. Coursework addresses law, policy, social justice and how systems of oppression are produced and reproduced by the criminal punishment system. Faculty members teaching in this major come from multiple disciplines including sociology, ethnic studies, political science, gender & sexuality studies, social work, and Native American studies. CJS core courses are primarily

taught through a sociological perspective, which allows students to develop critical thinking about systems-structures and research skills.

The program prepares students to be transformative leaders in a variety of locations, from probation and legal advocacy to community activism and policy research. Above all students will have a solid foundation to work and effect social change.

Students should know that law enforcement agencies usually have extensive training programs on the specifics of work in their organization (investigation procedures, safety protocols). Our program does not provide that training. Our CJS program provides a liberal arts degree with breadth, adaptability and practical application. Graduates choose to work in many different sectors: non-profit, private business, social services, education, health services, public relations, government, as well as pursuing graduate studies.

Community engagement and social action are important values of the Department of Sociology. Internships and faculty supervised original research are encouraged for the capstone experience. The sociology/ CJS community advisory board assists with developing and maintaining internships and community action research opportunities.

### Preparation

In high school take math, writing, and social science courses (history, psychology, sociology).

### REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### Unit Requirements

**Total units in the major: 40-43**

**Total units required for the degree: 120**

### Special Grade Requirement

A minimum grade of C is required for all courses in the major.

### Required Courses (24 units)

#### Lower Division

- |           |   |
|-----------|---|
| CRIM 125  | (3) Intro to Criminology and Justice Studies    |
| CRIM 225  | (4) Inequalities/<br>Criminalization, <b>or</b> |
| CRIM 225S | (4) Inequalities/<br>Criminalization* **        |

- |           |  |
|-----------|--|
| SOC 282L  | (1) Sociological Statistics Lab  |
| STAT 108  | (3) Elementary Statistics, <b>or</b>   |
| STAT 108i | (3) Elementary Statistics with Integrated Support (with corequisite: STAT 8) |

#### Upper Division

- |          |                                 |
|----------|---------------------------------|
| CRIM 325 | (4) Law and Society             |
| CRIM 410 | (4) Theories of Justice & Crime |
| SOC 382  | (4) Intro to Social Research    |
| SOC 372  | (1) Proseminar; <b>or</b>       |
| SOC 472  | (1) Graduate School Planning    |

### Knowledge Based Requirements (13-16 units)

#### Inequalities, Identities, and Crime

*Complete one course.*

- |          |                                    |
|----------|------------------------------------|
| CRIM 362 | (4) Gender, Sexualities and Crime  |
| CRIM 431 | (4) Juvenile Delinquency           |
| SOC 330  | (4) Social Deviance                |
| SOC 363  | (4) Environmental Crime            |
| SOC 466  | (4) Migration & the Global Economy |
| SOC 480  | (4) Special Topics* **             |

#### Law

*Complete one course.*

- |           |  |
|-----------|--|
| CRIM 455  | (4) Policing Bodies: A Biopolitical History of Race, Riots, & Surveillance |
| CRGS 360  | (4) Race, Gender & US Law  |
| ES 306    | (3) World Regions Cultural Studies (Topic: Narrating Genocide)             |
| NAS 364   | (4) Federal Indian Law I   |
| PHIL 307  | (3) Philosophy of Law  |
| PSCI 410† | (4) U.S. Constitutional Law  |
| PSCI 441  | (4) International Law  |
| SOC 480   | (4) Special Topics* **   |

#### Justice and Policy

*Complete one course.*

- |          |  |
|----------|--|
| CRIM 420 | (4) Drugs and Society                                    |
| CRIM 430 | (4) Law and Dissent                                      |
| CRIM 433 | (4) Punishment and Justice in Cross-National Perspective |
| ES 310   | (4) US & Mexico Border                                   |

† Course requires one or more prerequisites that are not required elsewhere in the major.

\*\* Service Learning component

\*\*\*Course only meets requirements if the specific topic is appropriate to the knowledge based area. Consult with an advisor.

NAS 332 (3) Environmental Justice  
NAS 468 (3) Tribal Justice Systems  
PSCI 313 (4) Politics of Criminal Justice  
SOC 480 (4) Special Topics\* \* \*

### **Social Research and Action Skills**

*Complete one course.*

ANTH 318† (4) Ethnography  
CRGS 313/EDUC 313 (3) Community  
Activism  
FILM 362 (4) Social Change Digital  
Production  
FILM 455 (4) Grant Writing  
FILM 455S (4) Grant Writing\* \*  
PSCI 412 (4) Legal Research  
PSCI 413 (3) Moot Court  
SOC 475 (4) Community Organizing  
SOC 480 (4) Special Topics\* \* \*  
WS 320 (3) Act to End Violence  
Seminar

### **Capstone (3 units)**

*Complete one course.*

SOC 482 (3) Internship  
SOC 492 (3) Senior Thesis

Many contributing departments to the CJS major offer 1-2 unit workshops around pressing social issues and popular topics. We encourage enrollment in these workshops, but the units may not be counted as part of the required 40-43 unit major requirement. Exception: Units may be used to "make up" 1-2 units if a student is short after transferring 3-unit courses from another college.

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† Course requires one or more prerequisites that are not required elsewhere in the major.

\* \* Service Learning component

\* \* \* Course only meets requirements if the specific topic is appropriate to the knowledge based area. Consult with an advisor.

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# CRITICAL RACE, GENDER & SEXUALITY STUDIES

## Bachelor of Arts degree

with a major in Critical Race, Gender and Sexuality Studies

## Minor in Comparative Ethnic Studies

(see Ethnic Studies, Comparative Minor)

## Minor in Multicultural Queer Studies

(see Multicultural Queer Studies)

## Minor in Women's Studies

(see Women's Studies)

## Department Chair

Kim Berry Ph.D.

Behavioral & Social Sciences 246

## Department of Critical Race, Gender and Sexuality Studies

Behavioral & Social Sciences 206

707-826-4329, fax 707-826-4320

crgs.humboldt.edu

## The Program

Our major lies at the intersections of Ethnic Studies (ES), Women's Studies (WS), and Multicultural Queer Studies (MQS). This interdisciplinary program analyzes how notions of race, gender, sexuality, nation, class, physical ability, and other aspects of social location materially influence people's lives. Students take a common core of classes then choose an emphasis in ES, WS, or MQS.

Students completing this program will have demonstrated the ability to:

- use intersectional analysis to examine social issues
- explain prominent debates in critical social theory
- examine gendered, racialized, and/or sexualized relations in a transnational context
- link theory to practice
- write effectively within scholarly contexts
- articulate the relationship between social justice movements and history.

CRGS graduates will be prepared to work in such fields as politics and government, business, social services, activism, and community organizing, and to pursue a variety of other jobs in the non-profit sector. In addition, graduates will be in a strong position to enter and successfully complete graduate study programs in the social sciences and humanities as well as obtain professional degrees and credentials leading to a range of careers. Graduates of our program are likely to pursue professions in, for example, social work, library science, education [K-12, community college, and

university levels), health care (counselor, psychologist, midwife, doctor, nurse, hospice, and hospital counseling), and law (civil rights attorney, legal representation for domestic abuse and violence cases, human rights law).

## REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

### Unit Requirements

Core units:	26
Emphasis units:	16
Total units in the major:	42
Total units required for the degree:	120

### Special Grade Requirement

All courses required for the major must be completed with a minimum grade of C-

### Core Courses (26 units)

#### Lower Division

CRGS 108 (3) Power/Privilege: Gender & Race, Sex, Class

#### Historical Content

Complete one course:

ES 105 (3) Intro to Ethnic Studies  
 WS 107 (3) Women, Culture, History

#### Contemporary Issues

Complete one course:

ES 106 (3) Intro to Black Studies  
 WS 106 (3) Intro to Women's Studies

#### Upper Division

CRGS 330 (3) Women of Color Feminisms  
 CRGS 360 (4) Race, Gender & US Law  
 CRGS 390 (4) Theory & Methods  
 CRGS 485 (1) Professional Development

### Community Engagement & Leadership

CRGS 313/EDUC 313 (3) Community Activism

Complete 2 units from the following courses:

CRGS 482 (1-3) Internship  
 CRGS 491 (1-2) Mentoring

### Emphases

Complete one of the following emphases to fulfill the requirements of the major.

#### Ethnic Studies Emphasis [16 units]

ES 310 (4) US-Mexico Border

Complete 12 units from the following list, chosen in consultation with major advisor:

CRGS 235 (1) Act to End Sexualized Violence  
 ES 107 (3) Chican@/Latin@ Lives  
 ES 245 (3) Hip Hop & the Black Experience  
 ES 304 (3) Migrations and Mosaics  
 ES 305 (3) African American Cultural History  
 ES 306 (3) World Regions Cultural Studies  
 ES 308 (3) Multi-Ethnic Resistance in the US  
 ES 314 (3) Chicano Culture & Society  
 ES 325 (3) From Civil Rights to Black Power  
 ES 326 (4) Media & the Politics of Representation  
 ES 336/WS 336/ENGL 336 (4) American Ethnic Literature  
 ES 465B-C/ENGL 465B-C/WS 465B-C (4) Multicultural Issues in Literature/Languages  
 ES 480 (1-3) Special Topics in Ethnic Studies

or other advisor approved courses.

#### Multicultural Queer Studies Emphasis [16 units]

CRGS 430 (3-4) "Queer" Across Cultures

Complete 12 units from the following list, chosen in consultation with major advisor:

CRGS 235 (1) Act to End Sexualized Violence  
 CRGS 321 (3) Trans\* Lives and Theory  
 ES 336/WS 336/ENGL 336 (4) American Ethnic Literature (when offered as Multicultural Queer Narratives)  
 ES 465B-C/ENGL 465B-C/WS 465B-C (4) Multicultural Issues in Literature/Languages (when offered as Performing Race & Gender)  
 FILM 465 (4) Film Seminar (when offered as Queer Movies)  
 PSYC 236 (1) Choice & Changes in Sexuality  
 PSYC 436/WS 436 (3) Human Sexuality  
 PSYC 437 (3) Sexual Diversity  
 WS 318/EDUC 318 (3) Gay and Lesbian Issues in Schools  
 WS 350 (4) Health & Body Politics  
 WS 370 (3-4) Queer Women's Lives, or

ENGL 360 (4) Special Topics in Literature  
(when offered as Queer  
Women's Literature)

*or other advisor approved courses.*

**Women's Studies Emphasis [16 units]**

WS 315 (4) Sex, Gender, and  
Globalization\*

*Complete 12 units from the following list,  
chosen in consultation with major advisor.  
At least two courses must have a transna-  
tional focus.*

CRGS 235 (1) Act to End Sexualized  
Violence

CRGS 430 (3-4) "Queer" Across Cultures\*  
ES 336/WS 336/ENGL 336 (4) American  
Ethnic Literature

WS 303 (3) Anticolonial Women's  
Movements\*

WS 317/ANTH 317 (4) Women in  
Development

WS 320 (3) Act to End Violence  
Seminar

WS 340 (3-4) Ecofeminism\*

WS 350 (4) Health & Body Politics

WS 370 (3-4) Queer Women's Lives, **or**

ENGL 360 (4) when offered as Queer  
Women's Literature

WS 419/PSYC 419 (3) Family Violence

WS 465B-C/ENGL 465B-C/ES 465B-C  
(4) Multicultural Issues in  
Literature/Languages

WS 480 (1-5) Selected Topics in  
Women's Studies

*or other advisor approved courses.*



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\* courses with transnational focus.

# DANCE MINOR

## Minor in Dance

See also *Dance Studies (Interdisciplinary Studies)* and *Theatre, Film, and Dance*.

## Dance Minor Advisor

Linda Maxwell  
Linda.Maxwell@humboldt.edu

## Department of Theatre, Film & Dance

Theatre Arts Building, Room 20  
707-826-3566  
dance.humboldt.edu

## The Program

Minors develop an understanding of dance as an art form and as a unique cultural and social expression. Students develop skills in physical techniques, creative process, collaboration, and performance. Dance minors are encouraged to participate in informal and mainstage dance performances.

## REQUIREMENTS FOR THE MINOR

**Total units required for the minor: 18**

*The program must be approved by the dance minor advisor. Transfer students must complete 9 units at HSU.*

### Required Courses (10 units)

DANC 104 (3) Modern/Contemporary II  
DANC 288 (1) Music for Dancers  
DANC 289 (1) Choreography I  
DANC 303 (3) Dance in World Cultures  
DANC 389 (2) Choreography II

### Elective Courses (8 units)

*Complete 8 units (at least 1 unit must be upper division) from the following:*

DANC 103 (3) Modern/Contemporary I  
DANC 103T (1) Modern/Contemporary I Skills Maintenance  
DANC 104T (1) Modern/Contemporary II Skills Maintenance  
DANC 110 (2) Ballet I  
DANC 110T (1) Ballet I Skills Maintenance  
DANC 120 (2) Jazz Dance Styles I  
DANC 120T (1) Jazz Styles I Skills Maint.  
DANC 240 (1) African Dance  
DANC 243 (1) Tap Dance  
DANC 245 (1) Middle Eastern Dance  
DANC 247 (1) Mexican Folklorico Dance  
DANC 310 (2) Ballet II  
DANC 310T (1) Ballet II Skills Maintenance  
DANC 320 (2) Jazz Dance Styles II  
DANC 320T (1) Jazz Styles II Skills Maint.  
DANC 330 (2) Modern/Contemporary III  
DANC 330T (1) Modern/Contemporary III Skills Maintenance

DANC 350 (3) Dance Science  
DANC 380 (1-3) Special Topics in Dance – Activity Based  
DANC 400 (3) Bodyworks  
DANC 480 (1-4) Special Topics in Dance  
DANC 484 (3) Creative Dance for the Classroom  
DANC 488 (1-4) Dance Performance Ensemble  
DANC 489 (4) Dance Theatre Production  
PE 192 (1) Latin Dance  
PE 194 (1) Social Dance  
PE 196 (1) Swing Dance



# DANCE STUDIES [INTERDISCIPLINARY STUDIES]

**Bachelor of Arts degree  
with an Interdisciplinary Studies  
major** — concentration in Dance  
Studies

See also *Dance Minor*.

## Department Chair

Ann Alter, MFA  
Ann.Alter@humboldt.edu

## Academic Advisor

Linda Maxwell, MFA  
Linda.Maxwell@humboldt.edu

## Department of Theatre, Film & Dance

Theatre Arts Building, Room 20  
707-826-3566  
dance.humboldt.edu

## The Program

Students completing the program will have:

- Evaluated basic knowledge of dance from the historical, social and cultural contexts by using specific dance vocabulary.
- Executed basic dance technique skills.
- Demonstrated a basic knowledge of the body from anatomical and/or somatic perspectives.
- Demonstrated knowledge of compositional craft for choreography.
- Identified necessary components of dance production.

The dance studies curriculum unifies the physical, intellectual, cultural, and artistic aspects of dance into an invigorating course of study, and prepares students for careers in the dance arts and/or for graduate studies. Experience and practice in a broad range of technical, performance, and creative skills develop the student's capacity to form and transform thought into expressive composition and performance. By investigating the relationship of dance to other art forms, various ethnic groups and cultures, and to social trends through historic and contemporary periods, our students grasp the profound importance of dance as a fine art and as an essential component of human existence.

The Dance Studies program requires 50 units of coursework, including a diverse core of 31 units and 9 units of dance electives. An additional 10 units of interdisciplinary electives allow students to develop skills in a range of areas, including technical production, dance education, various art forms and multicultural studies.

Annually, we offer two performances, a fall formal student Choreography Showcase, and a spring faculty/student formal con-

cert. In coordination with *CenterArts*, we are able to provide affordable tickets and multiple master class opportunities with internationally-renowned dance artists and companies.

The dance studies program participates annually in American College Dance Association conferences.

Students are highly encouraged to participate in the international exchange programs in order to experience dance as a universal and unifying phenomenon.

Dance studies prepares students for careers as dance teachers, choreographers and performers of innovative and/or multicultural works; performance artists; teacher of mind/body integration techniques; special arts events coordinators; designers of lights, sets and costumes; and prepares students for further study at the graduate level.

## Additional Dance at HSU

See PE courses.

Various dance clubs, including

- Interdisciplinary Dance Club
- Middle Eastern Dance Club: medance@humboldt.edu
- Mexican Folklorico Club: Ballet Folklorico de Humboldt: ballet@humboldt.edu
- Salsa Dance Club: salsa@humboldt.edu
- Lindy Hop Club: hsudance@humboldt.edu
- Demolition Dance Team: dsquad@humboldt.edu
- Swing Dance Club

## REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

## Unit Requirements

**Total units in the major: 51**

**Total units required for the degree: 120**

## Special Grade Requirement

A minimum grade of C- is required for all courses in the major.

## Required Courses (31 units)

Majors must be able to place in DANC 310, DANC 320, and DANC 330 to complete degree. Courses taken as prerequisites may count as dance electives. It is highly recommended that majors take a dance technique class every semester. "T" courses offer 1-unit opportunities to maintain technical and artistic performance skills.

DANC 104	(3) Modern/Contemporary II
DANC 288	(1) Music for Dancers
DANC 289	(1) Choreography I
DANC 303	(3) Dance in World Cultures
DANC 310	(2) Ballet II
DANC 320	(2) Jazz II
DANC 330	(2) Modern/Contemporary III
DANC 350	(3) Dance Science
DANC 389	(2) Choreography II
DANC 400	(3) Bodyworks
DANC 488	(1) Dance Performance Ensemble
DANC 489	(4) Dance Production
TA 494	(2) Senior Seminar

Complete 2 units from the following courses:

DANC 240	(1) African Dance
DANC 243	(1) Tap Dance
DANC 245	(1) Middle Eastern Dance
DANC 247	(1) Mexican Folklorico Dance

## Dance/Movement Electives (9 units)

Complete a minimum of 9 units from the following courses:

DANC 103	(3) Modern/Contemporary I
DANC 103T	(1) Modern/Contemporary I Skills Maintenance
DANC 104	(3) Modern/Contemporary II
DANC 104T	(1) Modern/Contemporary II Skills Maintenance
DANC 110	(2) Ballet I
DANC 110T	(1) Ballet I Skills Maintenance
DANC 120	(2) Jazz Dance Styles I
DANC 120T	(1) Jazz Styles I Skills Maintenance
DANC 240	(1) African Dance
DANC 243	(1) Tap Dance
DANC 245	(1) Middle Eastern Dance
DANC 247	(1) Mexican Folklorico Dance
DANC 310	(2) Ballet II
DANC 310T	(1) Ballet II Skills Maintenance
DANC 320	(2) Jazz Dance Styles II
DANC 320T	(1) Jazz Dance Styles II Skills Maintenance
DANC 330	(2) Modern/Contemporary III
DANC 330T	(1) Modern/Contemporary III Skills Maintenance
DANC 380	(1-3) Special Topics in Dance
DANC 480	(1-4) Special Topics in Dance
DANC 484	(3) Creative Dance for the Classroom
DANC 488	(1-4) Dance Performance Ensemble
DANC 489	(4) Dance Production
DANC 499	(1-4) Directed Study
PE 192	(1) Latin Dance
PE 194	(1) Social Dance
PE 196	(1) Swing Dance

**Approved Electives —  
Interdisciplinary (10 units )**

Complete **one** course from Group 1 and the remaining units from either Group 2 or Group 3.

**Group 1: Design and Production for  
Dance**

- TA 237 (3) Production Techniques
- TA 333 (4) Lighting Design Stage & Screen
- TA 336 (4) Costume Design Stage & Screen

**Group 2: Dance/Art for Self, Society and  
Culture**

- ES 245 (3) Hip Hop & the Black Experience
- MUS 302 (3) Music in World Culture
- PHIL 301 (3) Reflections on the Arts
- PHIL 309B (3) Perspectives: Humanities/ Science/Social Science
- SOC 316 (4) Gender and Society
- TA 104 (4) Story Through Word & Image
- TA 307 (3) Theatre of the Oppressed

**Group 3: Dance Education**

- CD 209 (3) Middle Childhood Development, **or**
- CD 255 (3) Early Childhood Development
- CD 350 (3) Perspectives: Life-Span Development
- DANC 484 (3) Creative Dance for the Classroom
- KINS 313 (2) Concepts of Teaching Dance
- KINS 317 (2) Concepts of Teaching Fitness
- KINS 475 (3) Elementary School Physical Education
- KINS 484 (3) Motor Development/ Motor Learning
- REC 210 (3) Recreation Leadership
- REC 302 (3) Inclusive Recreation
- REC 320 (3) Organization, Administration & Planning



# ECONOMICS

## Bachelor of Arts degree

**with a major in Economics** — with emphases in Traditional Economics; Individually-Designed Interdisciplinary

## Minor in Economics

### Department Chair

Beth Wilson, Ph.D.

### Department of Economics

Siemens Hall 206

707-826-3204

economics.humboldt.edu

## The Program

HSU has a strong and rigorous economics program. We are a close-knit community with small classes, a hands-on approach, and strong student-faculty relationships. Professors know you by name and work to support and encourage you as you grow and learn.

We offer many opportunities for hands-on learning and internships that are grounded in real-world skill building and help prepare you for the job market. There are openings for paid internships as research, community development, and teaching assistants, including the Humboldt Economic Index internship (a local index of economic activity), the Small Business Development Center (SBDC) summer internship, the Ruprecht Research Assistantship, and several instructional teaching assistantships. Students also work with local economic development non-profit organizations in our service-learning course.

In the liberal arts tradition, HSU economics graduates develop strong analysis, problem-solving, and written and oral communication skills. This skill-set makes our students very marketable when they graduate and economics graduates make the top 10 list of highest starting salaries among all majors. We have a strong record of helping students realize their career aspirations and our graduates have gone on to a wide range of careers in banking, finance, government, advocacy, environmental consulting, and business. In addition, many of our graduates pursue graduate and professional degrees in economics, public policy, law, and business.

Students completing the economics program will have demonstrated:

- mastery of core microeconomic and macroeconomic concepts, including application and conceptual analysis in evaluating real-world issues and problems

- the ability to explain the role that economics plays in defining and achieving a sustainable society
- mastery of computational analysis, including solving problems using economics tools and methods
- effective written and oral communication through summary and analysis papers, descriptive research papers, and presentations
- the ability to present themselves professionally in the job market

Consider today's important issues – climate change, sustainable growth and development, international trade and globalization, inequality and world poverty. In each case, economics is essential to understanding the choices that society faces and it is crucial in creating the best possible policy. Economics students learn to make sense of large and complex economic issues and critically evaluate real-world events.

Given the complexity of these problems, we understand the relevance and importance of an interdisciplinary curriculum. Our economics majors choose from either a traditional economics emphasis or an interdisciplinary emphasis. The interdisciplinary emphasis requires a minor (or equivalent) in a related discipline such as applied mathematics, political science, environmental science, business, international studies, or history. Students switching majors to economics often choose our interdisciplinary emphasis and make use of coursework earned from a prior major in order to graduate more quickly. Overall, economics majors are in the top 10 percent in terms of shortest time to graduation at Humboldt State University

## Preparation

High school students should take college preparatory courses, including English, writing, social science, and economics (if available). Math (including calculus) is recommended.

## REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

## Unit Requirements

Core units:	24-26
Elective units:	16
Emphasis units:	12-18
Total units in the major:	52-60
Total units required for the degree:	120

## Special Grade Requirement

A minimum grade of C- must be earned in all courses required for the major.

## Core Courses (24-26 units)

The following core courses and 16 units of upper division economics electives are required for all economics majors.

### Lower Division

ECON 210 (4) Principles of Economics

Complete one of the following:

MATH 101 (3) College Algebra

MATH 101i (3) College Algebra with Integrated Support (and corequisite MATH 1)

MATH 102 (4) Algebra & Elementary Functions

MATH 109\* (4) Calculus I

Complete one of the following:

STAT 108 (3) Elementary Statistics

STAT 108i (3) Elementary Statistics with Integrated Support (and corequisite: STAT 8)

PSYC 241 (4) Intro to Psychological Statistics

\*Students with a higher math aptitude and those considering graduate school should take MATH 109.

### Upper Division

Complete one of the following courses:

BA 332 (4) Intermediate Business Statistics

PSYC 488 (4) Regression/Multivariate Topics

STAT 333 (4) Linear Regression Models/ANOVA

Complete all of the following courses:

ECON 310 (4) Intermediate Microtheory & Strategy

ECON 311 (4) Intermediate Macroeconomics

ECON 490 (2) Capstone Experience

## Upper Division Economics Electives (16 units)

Complete four upper division economics elective courses numbered ECON 300-499, with the exception of ECON 387 & 482, including the corresponding 1-unit depth of study where offered.

## Emphases (12-18 units)

Complete one of the following emphases to fulfill the requirements of the major.

### Traditional Economics Emphasis (12 units)

Complete an additional 12 units of upper division economic elective courses numbered ECON 300-499, with the exception of ECON 387 & 482, including the corresponding 1-unit depth of study where offered.

### Individually-Designed Interdisciplinary Emphasis (18 units)

Complete a minor or 18 units of equivalent coursework, 9 of which must be upper division.

With approval from one's academic advisor and the department chair, students may develop an individually-designed, interdisciplinary emphasis by embedding a minor from a related field into their economics major. Alternatively, students may self-design a program of complementary coursework with at least 18 units (9 UD). Students must write a brief memo that outlines the purpose of their individually designed interdisciplinary emphasis, including personal learning and career goals

*Suggested minors and areas of study include:*

- **Applied Mathematics.** For students who want access to more technically demanding careers requiring extensive knowledge of mathematics. This emphasis will appeal to someone planning to enter a doctorate program in economics.
- **Business.** For students with career goals that demand specialized business training. This emphasis will appeal to someone planning to enter an MBA program.
- **Energy.** For students interested in combining engineering and environmental science with economics. Career paths include engineering consulting firms, state or federal policy agencies, and private energy industry firms.
- **Environmental & Natural Resource Planning.** For students interested in careers as industry representatives, advocates, consultants, and government planners working on environmental and natural resource issues.
- **International Studies.** For students interested in careers in international business, policy, or advocacy.
- **Political Science.** For students interested in careers in law, business, government and public affairs, advocacy and interest groups, and other nonprofits.
- **History.** For students interested in careers in secondary education, law, diplomacy, and journalism.

## REQUIREMENTS FOR THE MINOR

### Special Grade Requirement

A minimum grade of C- must be earned in all courses required for the minor.

**Total units required for the minor: 16**

### Lower Division

ECON 210 (4) Principles of Economics

### Upper Division Economics Electives

Complete 12 units from the following list. \*Courses with a corresponding additional depth "D" sections (below). Students are strongly encouraged to take the additional depth section when offered.

ECON 305\* (3) International Economics & Globalization  
ECON 306\* (3) Economics of the Developing World  
ECON 308\* (3) History of Economic Thought  
ECON 309\* (3) Economics of a Sustainable Society  
ECON 310 (4) Intermediate Microtheory & Strategy  
ECON 311 (4) Intermediate Macroeconomics  
ECON 323\* (3) Economic History of the US  
ECON 423\* (3) Environmental & Natural Resources Economics  
ECON 435 (4) Principles of Money & Banking  
ECON 450 (4) Energy Economics & Climate Policy  
ECON 470S (4) Sustainable Rural Economic Development

### Additional Depth Courses

*The following courses can only be taken with the corresponding courses above.*

ECON 305D (1) International Economics & Globalization Depth  
ECON 306D (1) Economics of the Developing World Depth  
ECON 308D (1) History of Economic Thought Depth  
ECON 309D (1) Economics of a Sustainable Society Depth  
ECON 323D (1) Economic History of the US  
ECON 423D (1) Environmental & NR Economics Depth

**Note:** Students seeking a baccalaureate in business administration with a concentration in economics may not also receive a minor in economics.



# EDUCATION

## Master of Arts degree in Education\* \*

### Elementary Education:

Preliminary Credential in Multiple Subjects  
See also:

Liberal Studies/Elementary Education  
Child Development/Elementary  
Education

### Secondary Education:\*

Preliminary Credentials in the following  
Single Subjects (You can find more informa-  
tion on any of the following undergraduate  
programs, listed under the subject name.):

*Art Education, English/Language Arts  
Education, History Education (Social  
Science), Mathematics Education, Music  
Education, Physical Education, Science  
Education [Biology, Chemistry, Geoscience,  
or Physics], Spanish Education*

### Special Education:

Preliminary Education Specialist Credential  
in Mild/Moderate Disabilities

Preliminary Education Specialist Credential  
in Moderate/Severe Disabilities

### Educational Leadership:

Preliminary Administrative Services Cre-  
dential

### School of Education

Harry Griffith Hall 202  
707-826-5873  
707-826-5868 (fax)  
education.humboldt.edu

### Education and Credentialing Office

Harry Griffith Hall 202  
707-826-5867 (Elementary, Secondary Ed.,  
Special Ed, Administration,)  
707-826-3729 (Graduate)

## The Programs

Humboldt State University has a long tradi-  
tion of teacher education dating back to  
1914, when it first opened as a Normal  
School. Over the years, Humboldt has pre-  
pared many of the teachers of this region  
while developing a reputation for innovation  
and close cooperation with local school dis-

\*Students completing one of the single  
subjects education programs (secondary  
education) may waive the CSET for  
entering credential programs in those  
areas.

\*\* The Education MA program is not  
accepting applications for the 2020-21  
academic year.

tricts. One of every seven Humboldt students  
is involved in some phase of teacher educa-  
tion (including undergraduate preparatory  
programs).

### Programs Leading to Licensure & Credentialing

Admission into programs leading to  
licensure and credentialing does not guar-  
antee that students will obtain a license or  
credential. Licensure and credentialing re-  
quirements are set by agencies that are not  
controlled by or affiliated with the CSU and  
requirements can change at any time. For  
example, licensure or credentialing require-  
ments can include evidence of the right to  
work in the United States (e.g., social secu-  
rity number or taxpayer identification num-  
ber) or successfully passing a criminal  
background check. Students are responsi-  
ble for determining whether they can meet  
licensure or credentialing requirements.  
The CSU will not refund tuition, fees or any  
associated costs to students who deter-  
mine subsequent to admission that they  
cannot meet licensure or credentialing re-  
quirements. Information concerning  
licensure and credentialing requirements  
are available from the Office of Academic  
Affairs, Siemens Hall 216, 707-826-  
3722.

Humboldt's teacher education programs  
enjoy positive working relationships with  
the local schools that accommodate cre-  
dential candidates from year to year. With  
the cooperative efforts of supportive school  
administrators, excellent mentor teachers,  
university professors, and university super-  
visors, candidates receive the individual  
attention that makes their credential-year  
experiences most rewarding. Humboldt  
offers the following credentials/programs:

### Credential Program Admission Requirements

*The following requirements apply to the  
Elementary Education, Secondary Education  
and Special Education credential programs.*

All applicants must apply to the university  
through [calstate.edu](http://calstate.edu)/ apply by the deadline.

The following requirements must be com-  
pleted to be eligible for admission into the  
credential programs. Documentation is  
required. Visit the Education & Credentials

webpage or contact the School of Education  
for specific requirements and deadlines.

- Transcripts from all colleges/ universities  
attended
  - Three letters of recommendation
  - completed 45 hours of early fieldwork
  - earned a minimum GPA of 2.67 (overall)  
or 2.75 (last 60 semester units)
  - Basic Skills Requirement
  - Current CPR Certification
  - Certification of Clearance
  - Passed CSET (see individual programs)
  - Passed CBEST (see individual programs)
  - Tuberculin clearance
  - Completed US Constitution Requirement
- Additional requirements are listed under  
each program.

### Elementary Education: Preliminary Credential Program

#### Program Leader

James Woglom  
Art A 26A  
707-826-5831  
jw2311@humboldt.edu

#### Program Coordinator

Sarah Green  
Harry Griffith Hall 202B  
707-826-5108  
skm38@humboldt.edu

## The Program

The Elementary Education credential pro-  
gram is a one year course of study that be-  
gins in the fall each year. Students can obtain  
a Multiple Subjects Preliminary Credential  
by taking a 44-unit professional education  
program to qualify for teaching positions in  
grades K-8.

Holders of a preliminary credential are  
eligible to complete requirements for a pro-  
fessional clear credential within five years  
through an Induction Program.

### Program Admission Requirements

See "Credential Program Admission  
Requirements", at the beginning of this  
section. The following are specific to the  
Elementary Education Program.

- Bachelors degree from a regionally ac-  
credited institution of higher learning or  
enrollment in the Liberal Studies Elemen-  
tary Education major at HSU.
- CSET in Multiple Subjects

The credential program application and admission guide are available at [education.humboldt.edu/content/elementary-education-credential-program](http://education.humboldt.edu/content/elementary-education-credential-program) and at the Education & Credentialing Office (HGH 202). Orientation sessions that explain the application process are offered each fall, beginning in late September.

## PROGRAM REQUIREMENTS (Elementary Education)

**Note:** Credential requirements are subject to change due to action by the state legislature, the California Commission on Teacher Credentialing, or the CSU Office of the Chancellor. The elementary education coordinator has the most current information on changes and how they affect student programs.

### Professional Education

Elementary education preliminary-credential courses and field experiences ensure that all candidates completing the program will have been introduced to concepts and strategies for working effectively with English language learners. The program implements the edTPA for the state-mandated teacher performance assessment that candidates must pass to be recommended for a credential.

Preliminary credential courses are sequential, beginning in the fall semester. Candidates observe/participate at their field sites full time on the opening day of school. For the first eight weeks, they have courses three afternoons and evenings per week (Tuesday-Thursday and all day Friday) and participate at their field site a minimum of 16 hours per week. The last seven weeks of the semester, candidates student teach full time and complete a minimum of five days' solo teaching.

The spring semester follows a similar pattern: intersession (first week of January) full-time observation/participation in the second fieldwork placement; seven weeks of coursework (Tuesday-Thursday and all day Friday) with a minimum of 16 hours per week in the placement; and 13 weeks of full-time student teaching, culminating in a two-week (minimum) solo.

One of the fieldwork placements, either fall or spring, will be in primary grades (TK-3); the other placement will be in upper elementary grades (4-8). Candidates enroll in the following courses.

### Grade Requirements

Candidates must maintain a 3.00 GPA (B average) in preliminary credential coursework to remain in the program. To be recommend-

ed for a credential, candidates must earn a C- or better in all preliminary credential courses. For additional information, please read the Elementary Education Handbook, available online.

## Required Courses (44 units)

### Fall Semester (22 units)

EDUC 377	(2) Education of Exceptional Individuals
EED 708	(1) Teacher Performance Assessment Support
EED 712	(1) Teaching and Learning in Elementary Education
EED 720	(1) The School & the Student
EED 721	(2) Multicultural Foundations
EED 722	(2) English Language Skills & Reading
EED 723	(2) Integrating Math/ Science in Elementary School
EED 724	(1) Fine Arts in the Integrated Elementary Curriculum
EED 728	(1) History/Social Science in the Integrated Elementary Curriculum
EED 733	(1) Teaching English Language Learners
EED 750	(8) Student Teaching in Elementary School

### Spring Semester (22 units)

EED 709	(1) Teacher Performance Assessment Support 2
EED 720B	(1) The School & the Student
EED 722B	(1) English Language Skills & Reading
EED 723B	(2) Integrating Math/ Science in Elementary School
EED 724B	(1) Fine Arts in the Integrated Elementary Curriculum
EED 726	(1) Professional Development Seminar
EED 728B	(1) History/Social Science in the Integrated Elementary Curriculum
EED 733B	(1) Teaching English Language Learners
EED 741	(2) Health & PE Curriculum in Elementary Schools
EED 758	(1) Student Teaching in Elementary School

## Supplementary/Subject Matter Authorizations

Supplementary and specific subject matter authorizations may be added to a credential through coursework. A secondary education credential may be added to an elementary education credential by passing the CSET examination for that subject and taking three

semester units of secondary education methodology. The department office has the specific requirements.

## Professional Clear Credential

An induction program is the required route to clear an SB 2042 preliminary credential. Locally, Humboldt State University collaborates with the North Coast Beginning Teacher Project to support new teachers being inducted into the profession.

## Secondary Education: Preliminary Credential Program

### Program Leader

Heather Ballinger  
Harry Griffith Hall 207  
707-826-5822 / hb481@humboldt.edu

### Coordinator

Sarah Green  
Harry Griffith Hall 202B  
707-826-5108 / skm38@humboldt.edu

## The Program

Humboldt meets subject-matter and professional requirements in preparing students to teach in secondary schools (middle school and senior high). Visit our website at [education.humboldt.edu/content/secondary-education](http://education.humboldt.edu/content/secondary-education) for additional information.

## Program Admission Requirements

See "Credential Program Admission Requirements", at the beginning of this section. The following are specific to the Secondary Education Program.

- Bachelors degree from a regionally accredited institution of higher learning or in exceptional cases, as part of an approved BA/BS subject-matter program at HSU.
- CSET discipline specific

The credential program application and admission guide are available at [education.humboldt.edu/content/secondary-education](http://education.humboldt.edu/content/secondary-education) and at the Education & Credentialing Office (HGH 202). Orientation sessions that explain the application process are offered each fall, beginning in late September.

## PROGRAM REQUIREMENTS (Secondary Education)

**NOTE:** Credential requirements are subject to change due to action by the state legislature, the California Commission on Teacher Credentialing, or the CSU Office of the Chancellor. The coordinator has current information on changes and the ways they affect programs.

### Special Grade Requirements

Candidates must maintain a B average (with no grade lower than a C-) to remain in the program.

### Professional Education

Obtain a preliminary credential by taking a 38.5-unit professional education program to qualify for teaching positions including teaching English language learners. Courses required for the single subjects (secondary education) preliminary credential are listed below. These two semesters **must** be taken in sequence.

#### First Semester (20 units)

SED 708	(.5) Teacher Performance Assessment
SED 711	(1) Nonviolent Crisis Intervention
SED 712	(2) Teaching & Learning in Secondary Schools
SED 713	(1) Classroom Management
SED 714	(2.5) Educational Psychology
SED 715	(2) Multicultural Education
SED 717	(1) Service Learning in a Multicultural Setting
SED 730	(3) ELD Bilingual Theory & Methods

*Complete one of the following courses:*

SED 731	(2) Secondary Curriculum Instruction: Art
SED 733	(2) Secondary Curriculum Instruction: English/Language Arts
SED 734	(2) Secondary Curriculum Instruction: Modern Language
SED 736	(2) Secondary Curriculum Instruction: Industrial Technology
SED 737	(2) Secondary Curriculum Instruction: Math
SED 738	(2) Secondary Curriculum Instruction: Music
SED 739	(2) Secondary Curriculum Instruction: Physical Education
SED 740	(2) Secondary Curriculum Instruction: Science
SED 741	(2) Secondary Curriculum Instruction: Social Studies

*Complete the following courses.*

SED 743	(2) Content Area Literacy
SED 755	(1) Content Literacy Applications
SED 762	(2) Supervised Fieldwork in Student Teaching

During the fall semester candidates will be evaluated by their mentor teacher, supervisor, and both discipline-specific and

education faculty in terms of their academic abilities and suitability for entering the teaching profession.

#### Second Semester (18.5 units)

SED 709	(1.5) Teacher Performance Assessment Support
<i>Complete one secondary seminar:</i>	
SED 744	(1) Secondary Seminar: Art
SED 746	(1) Secondary Seminar: English
SED 747	(1) Secondary Seminar: Modern Language
SED 749	(1) Secondary Seminar: Industrial Technology
SED 750	(1) Secondary Seminar: Math
SED 751	(1) Secondary Seminar: Music
SED 752	(1) Secondary Seminar: Physical Education
SED 753	(1) Secondary Seminar: Science
SED 754	(1) Secondary Seminar: Social Studies

*Complete the following courses.*

SED 767	(14) Student Teaching Secondary Education
SED 776	(2) Teaching in Inclusive Classrooms

During the spring semester, candidates spend the entire day in the local school, as any other teacher would. Many candidates find it difficult to hold part-time jobs or take substantial additional coursework during full-time student teaching.

### Supplementary/Subject Matter Authorizations

Students may add additional subjects to their credential through coursework (as supplementary/subject matter authorizations) or by passing CSET examinations and taking methods courses in additional subject areas. The department office has the specific requirements.

### Professional Clear Credential

An induction program is the preferred route to clear an SB 2042 preliminary credential. Locally, Humboldt State University collaborates with the North Coast Beginning Teacher Project to support new teachers being inducted into the profession.

### Special Education: Preliminary Credential Program

#### Program Leader

David Ellerd, Ph.D.  
Harry Griffith Hall 205  
707-826-5851  
dae11@humboldt.edu

#### Program Coordinator

Bernie Levy  
Harry Griffith Hall 202  
707-826-5868  
bjl31@humboldt.edu

### The Program

Humboldt meets subject-matter and professional requirements in preparing students to teach in special education classrooms in elementary and secondary (junior and senior high) schools.

Please refer to [humboldt.edu](http://humboldt.edu) for new special education programs and updates.

### Program Admission Requirements

Applications are accepted throughout the year for admission the **following fall**. Apply early as space is limited.

See "Credential Program Admission Requirements", at the beginning of this section. The following are specific to the Special Education Program.

- A bachelors degree from a regionally accredited institution of higher learning or in exceptional cases, as part of an approved BA/BS subject-matter program at HSU.
- CSET multiple subjects or discipline specific
- a personal interview

### PROGRAM REQUIREMENTS (Special Education)

Obtain a preliminary credential by taking a 50-unit professional education program to qualify for teaching positions.

Holders of a preliminary credential must complete requirements for a clear credential within five years.

#### Credential Options

A California Education Specialist Credential permits teaching grades K-12, including adults. This credential authorizes teaching individuals with specific learning disabilities, intellectual disabilities, other health impairments, and serious emotional disturbances.

Upon completing all required tests, all assessments and observations, the US Constitution requirement, an accredited bachelor's degree, and the special education course sequence, candidates apply for

a Preliminary Education Specialist Credential in Mild/Moderate Support Needs. This preliminary credential authorizes teaching for five years, during which time candidates must acquire a Clear Education Specialist Credential in Mild/Moderate Support Needs.

#### Grade Requirement

Maintain a minimum GPA of 3.00 (with no grade lower than a C-) to remain in the program.

#### Preliminary Credential

Students must complete 50 units of approved courses in Special Education, including EDUC 377/SPED 777, Education of Exceptional Individuals. The Special Education Program Leader must approve the program of study. Contact the department office for details.

#### Foundation Courses (13 units)

EDUC 377/SPED 777	(2) Education of Exceptional Individuals
SPED 702	(3) Foundations of General & Special Education
SPED 703	(3) Foundations of Assessment & Program Planning
SPED 705	(2) Multicultural Special Education
SPED 706	(3) Applied Behavior Analysis for Teachers

#### Methods Courses (37 units)

SPED 707	(3) Curriculum & Instruction: Reading & Language Arts
SPED 708	(1) Practicum: Reading Instruction
SPED 709	(2) Curriculum & Instruction: Math
SPED 710	(1) Practicum: Math Instruction
SPED 711	(2) Curriculum & Instruction: Science, History & Social Science
SPED 721	(3) Transition Planning
SPED 722	(2) Autism Intervention Strategies
SPED 731	(1) Classroom Management
SPED 733	(2) Special Education Policies & Procedures
SPED 736	(1) Curricular & Instructional Skills Seminar
SPED 737	(1) Non-violent Crisis Intervention
SPED 738	(9) Fall Special Education Student Teaching
SPED 739	(9) Spring Special Education Student Teaching

### Educational Leadership: Preliminary Administrative Services Credential Program

#### Program Leader/Coordinator

Kenny Richards, Ed.D.  
Harry Griffith Hall 220  
707-826-5886 / kwr3@humboldt.edu

#### The Program

Humboldt State's Educational Leadership Program (EDL) is designed for teacher leaders interested in improving education locally as well as globally. The EDL Program will enhance educators' skills and knowledge base while preparing them to lead the way towards school improvement and increased student performance. This cohort model is designed to accommodate the schedules of busy educators through a blend of classroom, online, and video-conferencing instruction. Candidates who wish to earn their California Administrative Services Preliminary Credential will also complete elementary or secondary fieldwork as required by California Commission on Teacher Credentialing (CCTC). Instruction is delivered by local educational leaders, veteran school administrators, and guest presenters who represent the best within their field.

#### Program Admission Requirements

Those seeking admission to the program must submit the following documents to the program leader/coordinator:

- a completed application for admission to the program;
- a copy of a valid teaching or pupil personnel services credential;
- participate in an admission interview with the program leader of the Educational Leadership Preliminary Administrative Credential Program;
- two letters of recommendation for admission into the Educational Leadership Program: one from the student's current supervisor and one from another administrator;
- documentation of having completed four years upon entry — and (for candidates seeking a California Preliminary Administrative Services Credential), by completion of credential requirements, five years — of successful, full-time teaching or pupil personnel experience in public or private schools; and
- transcripts verifying a university grade-point average of 2.75 on the last 60 semester units.

### PROGRAM REQUIREMENTS (Educational Leadership)

#### Preliminary Credential

#### Grade Requirement

Maintain a minimum GPA of 3.00 (with no grade lower than a C-) in the following required courses:

EDL 642	(3) Curriculum: Development & Governance
EDL 645	(3) Personnel Administration & Supervision
EDL 646	(3) The Principal: Leader & Administrator
EDL 647	(2) Practicum: Diversity Issues & School Administration
EDL 648	(3) Legal & Fiscal Aspects of School Administration
EDL 649	(1) Ethics & School Administration
EDL 660	(2) Technology & School Management

- pass a final oral exam on the program's total skills and knowledge.

Candidates seeking to obtain a Preliminary Administrative Credential must:

- document that a district is willing to support the candidate's fieldwork by completing a fieldwork plan sheet with approval signatures from district and university supervisors;
- successfully complete the California Basic Education Skills Test;
- successfully complete the following additional fieldwork courses and seminar:
 

EDL 694	(3) Elementary School Administration Fieldwork
EDL 695	(3) Secondary School Administration Fieldwork
EDL 696	(1) Fieldwork & Final Evaluation Seminar

## MASTER OF ARTS DEGREE IN EDUCATION \*\*

### Graduate Program Coordinator

Libbi R. Miller, Ed.D.  
Harry Griffith Hall 227  
707-826-3734 / erm81@humboldt.edu

### The Program

Our program helps educators assume an enhanced and more focused leadership role in their schools.

Graduates will:

- demonstrate an informed sensitivity to the social concerns in the field
- develop teaching practice and/or policy reflecting an integrated understanding of the psychology and process of learning
- assess student learning using both formal and informal methods
- present sound theoretical arguments to guide research or inform project designs
- write effectively with authority and clarity regarding their areas of expertise
- develop, validate, and implement research protocols.

The master's in education is designed for educational professionals interested in deepening their understanding of important issues and developing more effective strategies to meet the needs of students of all ages. The program offers extensive support from colleagues and faculty, a collaborative environment, and a curriculum delivered online (in the evenings) for working professionals. The program is designed to allow students to tailor their work towards developing expertise in an area of interest on a broad array of topics, from improving communication through infant massage to models of teacher leadership in managing schools.

### Program Admission Requirements

To be admitted candidates must: (1) hold an acceptable baccalaureate degree from a regionally accredited institution (or equivalent academic preparation); (2) be in good academic standing at the last university attended; and (3) have a GPA of at least 3.00 in the last 60 semester units (90 quarter units) attempted.

If the bachelor's degree is from a postsecondary institution where English is not the principal language of instruction, score at least 550 on the Test of English as a Foreign Language (TOEFL).

\*\*The Education MA program is not accepting applications for the 2020-21 academic year.

## REQUIREMENTS FOR THE DEGREE Master of Arts in Education \*\*

There are two pathways that result in a MA in Education including a:

- Masters of Education
- Educational Leadership Credential/MA

### Unit Requirements

**Total units required for the degree: 32**

Students accepted into the traditional master's degree in education program must complete all of the following:

#### Core Courses

EDUC 610	(3) Education in Society
EDUC 620	(3) Pedagogy: Practice & Research
EDUC 630	(2) Educational Psychology
EDUC 640	(3) Assessment
EDUC 645	(2) Academic Writing in Education
EDUC 655	(3) Educational Research
EDUC 668	(4) Mixed Methods in Educational Research

*Complete 9 units of elective courses selected in consultation with your advisor*

*Complete 3 units of thesis or project preparation.*

EDUC 690	(1-3) Thesis
EDUC 692	(1-3) Master's Project

#### Educational Leadership Emphasis

Educators enrolled in the Educational Leadership Program (for Preliminary Administrative Services Credential) may apply to earn both a Credential and an MA.

To enter the combined EDL/MA program students must have completed four years of successful full-time teaching.

### Unit Requirements

**Total units required for the degree/credential: 38-39**

For students earning a combined master's degree in education and an Administrative Services Credential, Students may begin by applying for the EDL credential and then decide during their first semester whether or not to complete the combined EDL/MA program. To add the MA, students must be admitted to the master's program by the spring semester of their EDL year.

The following courses must be completed in addition to all credential coursework (see Educational Leadership Program).

EDUC 645	(2) Academic Writing in Education
EDUC 655	(3) Educational Research

EDUC 668	(4) Mixed Methods in Educational Research
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*Complete one of the following selected in consultation with your advisor:*

EDUC 610	(3) Education in Society
EDUC 620	(3) Pedagogy: Practice & Research
EDUC 630	(2) Educational Psychology
EDUC 640	(3) Assessment

*Complete 3 units of thesis or project preparation.*

EDUC 690	(1-3) Thesis
EDUC 692	(1-3) Master's Project

#### Special Education Emphasis

Those enrolled in the Mild to Moderate Special Education credential may also earn an MA. Students must have completed the Preliminary credential program plus two years as a special education teacher in a US public school.

For students earning a combined master's degree in education and Special Education Clear Credential, the following courses must be completed in addition to all credential coursework (see Special Education Credential).

SPED 799	(1-3) Directed Study (Topic: Single-Subject Research Methods)
EDUC 645	(2) Academic Writing in Education
EDUC 655	(3) Educational Research
EDUC 668	(4) Mixed Methods in Educational Research

And one of the following selected in consultation with your advisor:

EDUC 610	(3) Education in Society
EDUC 620	(3) Pedagogy: Practice & Research
EDUC 630	(2) Educational Psychology
EDUC 640	(3) Assessment

Plus 3 units of thesis or project preparation (EDUC 690 or EDUC 692).



# ENGLISH

## **Bachelor of Arts degree with a major in English —**

concentrations in Literary Studies, Teaching the Language Arts (English Education), and Writing Practices

## **Minor in English Literature**

## **Minor in English Writing**

## **Minor in Ethnic American Literatures**

## **Minor in Teaching English as a Second/ Foreign Language**

## **Master of Arts degree in English — Applied English Studies**

### **Department Chair**

Laura K. Hahn, Ph.D.

### **Department of English**

Founders Hall 201

707-826-3758

english.humboldt.edu

Please see the department website for updates on changes and additions to our programs.

### **The Program**

Students completing this program will have demonstrated:

- the ability to read and explicate written English precisely
- analysis of literature from several critical perspectives
- meaningful use of literary, linguistic, theoretical, and rhetorical terminology
- an awareness of structures of power in language, literature, and culture
- stimulating and effective writing in a variety of genres according to the accepted conventions of English studies
- knowledge of literary movements and writers from a range of historical periods and cultural frameworks
- the ability to understand and perform rhetorical strategies to inform, persuade, and argue.

The English major at HSU encompasses perspectives derived from literary theory, contextual knowledge about literature, the analysis of language, the close reading of texts, and written expression. Students take a balance of lecture and small-group instruction. This program is excellent preparation for a wide range of careers, all requiring reasoning ability and skill in the use of language. Students in English do well in many occupations, including magazine or book editor, teacher, critic, library assistant, and writer

in many areas such as technology, business, government, non-profit organizations, and other organizations for social change.

### **Preparation**

High school students should take four years of English, including composition and literature. Study of a language other than English is recommended.

### **REQUIREMENTS FOR THE MAJOR**

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### **Unit Requirements**

**Total units in the major/  
concentration: 49-62**  
**Total units required to graduate: 120**

The English major with concentrations in Literary Studies or Writing Practices consist of 16 units of required courses; 16 units in concentration electives; two classes (7-8 units) from the other two concentrations; a capstone course; and one year of college-level study of a language other than English. The English major with a concentration in Teaching the Language Arts (English education) consists of 50 units of required courses and a choice of one of three emphases.

### **Concentrations**

*Select one concentration and complete all requirements.*

### **Literary Studies Concentration (49-50 units)**

#### **Required Courses (16 units)**

ENGL 120	(4) Intro to the English Major
ENGL 220	(4) Literature, Identity & Representation
ENGL 225	(4) Intro to Language Analysis
ENGL 320	(4) Practical Criticism

#### **Literary Studies Electives (16 units)**

*Complete at least 16 units, 12 of which must be at upper division level, selected from the following:*

ENGL 230 or ENGL 231	(4) Survey of British Literature
ENGL 240	(4) World Literature
ENGL 325	(4) History of the English Language
ENGL 330	(4) American Literature (variable topics)

ENGL 342	(4) Special Topics in Shakespeare
ENGL 350	(4) British Literature
ENGL 360	(4) Topics in Literature/Language
ENGL 370	(4) Topics in the Literature of Power and Place
ENGL 420	(4) Advanced Topics in Critical Theory
ENGL 465B/ENGL 465C	(4) Multicultural Issues in Language & Literature
ENGL 480 (1-4)	Special Topics (must be a literary topic)

### **Writing Practices Elective (4 units)**

*Complete at least 4 units selected from the following courses.*

ENGL 211	(4) Introduction to Creative Writing
ENGL 311	(4) Environmental Writing
ENGL 314	(4) Creative Writing: Nonfiction
ENGL 315	(4) Creative Writing: Fiction
ENGL 316	(4) Creative Writing: Poetry
ENGL 318	(4) Rhetoric for Writers
ENGL 319	(4) Digital Rhetorics & Writing
ENGL 422	(4) Advanced Research Writing
ENGL 450	(2) Tutoring Developing Writers
ENGL 460	(4) Literary Editing & Publishing <i>Toyon</i> Literary Magazine
ENGL 461	(4) Professional Concerns in Writing & Editing
ENGL 480 (1-4)	Special Topics (must be a writing topic)

### **Language Arts Elective (3-4 units)**

*Complete one course selected from the following:*

ENGL 328	(4) Structure of American English
ENGL 336	(4) American Ethnic Literature
ENGL 344	(3) Young Adult Literature
ENGL 406	(4) Contemporary Composition: Traditional Studies & Digital Practice
ENGL 417	(3) Second Language Acquisition
ENGL 426	(3) Communication in Writing II
ENGL 435	(4) Intro to English as a Second/Foreign Language
ENGL 436	(3) Integrating Language & Content in English Instruction

**Language (0-8 units)**

One year of a language other than English taken at the college level (4 units may count as GE Area C)

**Capstone**

ENGL 490 (2) Senior Portfolio Seminar

**Writing Practices Concentration (49-50 units)****Required Courses (16 units)**

ENGL 120 (4) Intro to the English Major  
 ENGL 220 (4) Literature, Identity & Representation  
 ENGL 225 (4) Intro to Language Analysis  
 ENGL 320 (4) Practical Criticism

**Writing Practices Electives (16 units)**

*Complete at least 16 units selected from the following:*

ENGL 211 (4) Introduction to Creative Writing  
 ENGL 311 (4) Environmental Writing  
 ENGL 314 (4) Creative Writing: Nonfiction  
 ENGL 315 (4) Creative Writing: Fiction  
 ENGL 316 (4) Creative Writing: Poetry  
 ENGL 318 (4) Rhetoric for Writers  
 ENGL 319 (4) Digital Rhetorics & Writing  
 ENGL 422 (4) Advanced Research Writing  
 ENGL 450 (2) Tutoring Developing Writers  
 ENGL 460 (4) Literary Editing & Publishing *Toyon* Literary Magazine  
 ENGL 461 (4) Professional Concerns in Writing & Editing  
 ENGL 480 (1-4) Special Topics (must be a writing topic)

**Literary Studies Electives (4 units)**

*Complete one course.*

ENGL 325 (4) History of the English Language  
 ENGL 330 (4) American Literature (variable topics)  
 ENGL 342 (4) Special Topics in Shakespeare  
 ENGL 350 (4) British Literature  
 ENGL 360 (4) Topics in Literature/Language  
 ENGL 370 (4) Topics in the Literature of Power and Place  
 ENGL 420 (4) Advanced Topics in Critical Theory  
 ENGL 465B/ENGL 465C (4) Multicultural Issues in Language & Literature  
 ENGL 480 (1-4) Special Topics (must be a literary topic)

**Language Arts Elective (3-4 units)**

*Complete one course.*

ENGL 328 (4) Structure of American English  
 ENGL 336 (4) American Ethnic Literature  
 ENGL 344 (3) Young Adult Literature  
 ENGL 406 (4) Contemporary Composition: Traditional Studies & Digital Practice  
 ENGL 417 (3) Second Language Acquisition  
 ENGL 426 (3) Communication in Writing II  
 ENGL 435 (4) Intro to English as a Second/Foreign Language  
 ENGL 436 (3) Integrating Language & Content in English Instruction

**Language (0-8 units)**

One year of a language other than English taken at the college level (4 units may count as GE Area C)

**Capstone**

ENGL 490 (2) Senior Portfolio Seminar

**Teaching the Language Arts Concentration (English Education) (58-62 units)****Lower Division Courses (20 units)**

ENGL 120 (4) Introduction to the English Major, **or**  
 ENGL 220 (4) Literature, Identity & Representation  
 ENGL 225 (4) Intro to Language Analysis  
 ENGL 230 or ENGL 231 (4) Survey of British Literature  
 ENGL 232 (4) Survey of American Literature  
 ENGL 240 (4) World Literature

**Upper Division Courses (30 units)**

ENGL 320 (4) Practical Criticism  
 ENGL 328 (4) Structure of American English  
 ENGL 336 (4) American Ethnic Literature  
 ENGL 342 (4) Special Topics in Shakespeare  
 ENGL 344 (3) Young Adult Literature  
 ENGL 406 (4) Contemporary Composition: Traditional Studies & Digital Practice  
 ENGL 426 (3) Communication in Writing II  
 ENGL 435 (4) Intro to English as a Second/Foreign Language

**Emphases (8-12 units)**

*Complete one of the following three emphases to fulfill the requirements of the concentration in Teaching the Language Arts.*

**Literature/Language (8 units)**

*Complete 8 units selected from the following:*

ENGL 325 (4) History of English Language  
 ENGL 330 (4) American Literature  
 ENGL 350 (4) British Literature  
 ENGL 360 (4) Topics in Literature/Language  
 ENGL 370 (4) Topics in the Literature of Power and Place  
 ENGL 420 (4) Advanced Topics in Critical Theory  
 ENGL 465B/ENGL 465C (4) Multicultural Issues in Language & Literature

**Writing Practices (8 units)**

*Complete 8 units selected from the following:*

ENGL 211 (4) Introduction to Creative Writing  
 ENGL 311 (4) Environmental Writing  
 ENGL 314 (4) Creative Writing: Nonfiction  
 ENGL 315 (4) Creative Writing: Fiction  
 ENGL 316 (4) Creative Writing: Poetry  
 ENGL 318 (4) Rhetoric for Writers  
 ENGL 319 (4) Digital Rhetorics & Writing  
 ENGL 422 (4) Advanced Research Writing  
 ENGL 450 (2) Tutoring Developing Writers  
 ENGL 460 (4) Literary Editing & Publishing *Toyon* Literary Magazine  
 ENGL 461 (4) Professional Concerns in Writing & Editing  
 ENGL 480 (1-4) Special Topics (must be a writing topic)

**Language Acquisition & Development (6-12 units)**

*Complete the following courses:*

ENGL 417 (3) Second Language Acquisition  
 ENGL 436 (3) Integrating Language & Content in English Instruction

*Complete a minimum of 6 semester units of a language other than English at a university or intensive language program, or prove second language proficiency.*

**REQUIREMENTS FOR THE MINORS****Minor in English Literature****Advisor**

Janet Winston, Ph.D.  
 Founders Hall 213  
 707-826-3913

**Total units required for the minor: 15**

*Complete a minimum of 15 units, 11 of which must be upper division. See the literature*

minor advisor for course approval and advice in planning a minor appropriate to your needs and interests.

#### Lower Division Elective Courses

- ENGL 120 (4) Intro to the English Major  
 ENGL 220 (4) Literature, Identity & Representation  
 ENGL 230 (4) Survey of British Literature: Beginnings through the 18th Century  
 ENGL 231 (4) Survey of British Literature: 19th and 20th Centuries  
 ENGL 232 (4) Survey of American Literature  
 ENGL 240 (4) World Literature

#### Upper Division Elective Courses

- ENGL 305 (3) Postcolonial Perspectives: Literature of the Developing World  
 ENGL 306 (3) Contemporary Texts  
 ENGL 308B-C (3) Women in Literature  
 ENGL 320 (4) Practical Criticism  
 (Prerequisite: ENGL 120 or ENGL 220)  
 ENGL 330† (4) American Literature  
 ENGL 336 (4) American Ethnic Literature  
 ENGL 342† (4) Special Topics in Shakespeare  
 ENGL 350† (4) British Literature  
 ENGL 360 (4) Special Topics in Literature  
 ENGL 370 (4) Topics in the Literature of Power and Place  
 ENGL 420† (4) Advanced Topics in Critical Theory  
 ENGL 465B-C† (4) Multicultural Issues in Literature/Languages  
 ENGL 480 (1-4)† Special Topics  
 (must be in a literature topic)

#### Minor in English Writing

##### Advisor

Janelle Adsit, Ph.D.  
 Founders Hall 228  
 707-826-5936

**Total units required for the minor: 15**

Complete a minimum of 15 units, 11 of which must be upper division, chosen from the list below. See the Writing Minor Advisor for course approval and advice in planning a minor appropriate to your needs and interests.

- ENGL 211 (4) Introduction to Creative Writing  
 ENGL 311 (4) Environmental Writing

† Requires ENGL 320 Practical Criticism as a prerequisite. Instructors have some discretion to waive this requirement.

- ENGL 314 (4) Creative Writing: Nonfiction  
 ENGL 315 (4) Creative Writing: Fiction  
 ENGL 316 (4) Creative Writing: Poetry  
 ENGL 318 (4) Rhetoric for Writers  
 ENGL 319 (4) Digital Rhetorics & Writing  
 ENGL 422 (4) Advanced Research Writing  
 ENGL 450 (2) Tutoring Developing Writers  
 ENGL 460 (4) Literary Editing & Publishing (*Toyon*)  
 ENGL 461 (4) Professional Concerns in Writing & Editing  
 ENGL 480 (1-4) Special Topics (must be a writing topic)

With minor advisor's approval, students may substitute one of the following courses, for any one of the upper division courses listed above.

- JMC 324 (3) Magazine Writing, or  
 FILM 350 (3) Writing for Film

#### Minor in Ethnic American Literatures

##### Advisor

Christina Accomando, Ph.D.  
 Founders Hall 219  
 707-826-3479

##### The Program

Drawing on classes from ethnic studies, Native American studies, and English, this interdisciplinary minor provides the opportunity to study the diverse literatures of multi-ethnic American writers.

Students gain an understanding of the comparative histories and cultures of ethnic groups in the US through ES 105, required of all minors. Minors take another 12 units in ethnic American literature and culture, including ENGL/ES 336, American Ethnic Literature. Courses might concentrate on the literary traditions of a particular group (Native American, African American, Asian American, or Chicano literatures) or examine multi-ethnic US literatures in a comparative way. Various special topics courses also may apply, depending on the topic and subject to advisor approval.

This minor can be particularly useful for those planning careers in teaching, social work, business, law, journalism, and community development.

**Total units required for the minor: 15**

#### Required Courses (7 units)

- ES 105 (3) Introduction to US Ethnic Studies  
 ES 336/ENGL 336 (4) American Ethnic Literature

#### Approved Elective Courses (8 units)

Complete 8 units in ethnic American literature and culture. Options include:

- ENGL 330 (4) American Literature [depending on topic; consult advisor]  
 ENGL 465 (4) Multicultural Issues in Literature [depending on topic; consult advisor]  
 ES 314 (3) Chicano Culture & Society in America  
 ES 336/ENGL 336 (4) American Ethnic Literature [topics vary; may be repeated]  
 NAS 301 (3) Native American Literature [topics vary; may be repeated]  
 NAS 302 (3) Oral Literature & Oral Tradition

Consult with the advisor for approval of special topics courses not on this list.

#### Minor in Linguistics

##### Advisor

Nikola Hobbel, Ph.D.  
 Founders Hall, Room 172  
 707-826-3161

##### The Program

Faculty are drawn from several departments for an interdisciplinary, integrated program of study. Participants analyze language in all its aspects.

Linguistics students find they have a background for careers requiring both written and spoken communication skills. Potential careers: linguist, translator, interpreter, advertising specialist, writer, intelligence specialist, speech/language pathologist, speech writer, materials developer, editor, and ESL teacher. This minor also provides a background for students wanting to do graduate work in linguistics, modern languages, or a social science.

**Total units required for the minor: 19**

#### Required Courses

- ENGL 225 (4) Introduction to Language Analysis, or  
 ENGL 326 (4) Language Study for Teachers

Complete one year of a language other than English in sequence at the university level (6-10 units).

## Philosophical & Anthropological Approaches

Complete one course.

- ANTH 340 (4) Language & Culture  
PHIL 100 (3) Logic  
PHIL 485 (3) Seminar in Philosophy  
[topic: Philosophy of Language]

## Language Development

Complete one course.

- COMM 422 (4) Children's Communication Development  
ENGL 417 (3) Second Language Acquisition  
ENGL 328 (4) Structure of American English  
ENGL 325 (4) History of the English Language

## Language Study

Complete one course.

- FREN 311 (4) French V & Stories from the Francophone World  
GERM 311 (4) German Level V  
SPAN 311 (4) Spanish Level V

## Culminating Phase

- LING 495 (3) Practicum in Language Studies

## Minor in Teaching English as a Second/ Foreign Language

### Advisor

Nikola Hobbel, Ph.D.  
Founders Hall 172  
707-826-3161

### The Program

This coursework develops and refines skills necessary in teaching English as a second / foreign language (in the US, foreign schools, and language institutes).

### Preparation

Take high school or community college courses in English, languages other than English, and ethnic studies.

**Total units required for the minor: 20**

### Course Requirements

Complete 6 semester units of a language other than English taken at the university level or at an intensive language program.

Complete one of the following:

- ENGL 225 (4) Introduction to Language Analysis  
ENGL 326 (4) Language Studies for Teachers  
ENGL 328 (4) Structure of American English

Complete all of the following:

- ENGL 417\* (3) Second Language Acquisition  
ENGL 435 (4) Intro to English as a Second/Foreign Language  
ENGL 436\* (3) Integrating Language & Content in English Instruction

\*ENGL 435 is a prerequisite for ENGL 436. ENGL 225, 326 or 328 or the equivalent is a prerequisite for ENGL 417.

## MASTER OF ARTS IN APPLIED ENGLISH STUDIES

### Graduate Coordinator

Janet Winston, Ph.D.  
Founders Hall 213  
707-826-3913  
Janet.Winston@humboldt.edu

### The MA Program

The MA in English offers a broad curriculum meant to prepare students for a range of pursuits. The program fosters the development of critical reading, writing, teaching, research and other scholarly skills through focused study of literary and cultural texts, pedagogical theory, curriculum development, composition and rhetoric, digital humanities, linguistics, and ESL/EFL. Students gain an advanced understanding of current disciplinary knowledge, including how texts circulate among audiences and how language shapes the world. We offer a variety of opportunities for hands-on learning in the form of teaching assistantships, tutoring positions, and internships in teaching, editing, library curating and archiving, digital humanities, tutoring, and ESL/EFL. With an emphasis on professional development, the program expands opportunities for K-12 teachers and prepares students for Ph.D. programs and jobs in college teaching as well as careers in publishing, editing, professional writing, librarianship, digital scholarship, and teaching English abroad. Students have considerable latitude in designing master's projects that match their interests and the expertise of graduate faculty.

Students completing this program will demonstrate:

- the ability to produce professional-quality, research-based analytical writing in various genres and/or media
- the use of a variety of interpretive strategies for analyzing multiple kinds of texts, including digital and new media production
- engagement with theory and an ability to locate a text in its cultural and historical contexts

- skill in applying key theories and practices in the teaching of reading and writing for diverse audiences, including multilingual speakers
- understanding of cultural competency and social justice lenses
- the ability to define an area of inquiry and its relation to the field at large in a project or thesis

### Program Admission Requirements

In addition to the general CSU requirements for graduate admissions, candidates for the English MA program need to include the following documents with their application:

- three letters of recommendation
- academic writing sample

For complete information on current admission requirements, please consult the English department's website at [english.humboldt.edu](http://english.humboldt.edu).

### REQUIREMENTS FOR THE DEGREE (Master of Arts)

For a description of degree requirements to be fulfilled in addition to those listed below see, "The Master's Degree" section of the catalog, pp. 83-84.

### Unit Requirement

**Total units required for the major: 34**

Complete 34 units of graduate work (500-600 level) in language, composition, ESL, pedagogy, theory, literature, and digital humanities courses approved by the department.

Reading knowledge of one language other than English or two college semesters of the same language.

### Grade Requirement

GPA of 3.00 in all coursework applied to the degree (no individual grade less than B- will apply to the degree).

### Required Courses

- ENGL 536 (4) Problems in Form, Genre, Media  
ENGL 546 (4) Reading Historically  
ENGL 600 (4) Graduate Studies Introduction  
ENGL 605 (4) Cultural Studies Introduction  
ENGL 611 (4) Reading & Writing Pedagogy  
ENGL 612 (4) Theory of Rhetoric & Composition  
ENGL 614 (4) Teaching ESL Reading & Writing  
ENGL 615 (4) Digital Humanities  
ENGL 690 (1-6) Master's Project (variable units; at least 2 units required; may be

repeated once if not completed in one semester for a total of 6 units)

### Graduate Elective Courses

ENGL 560	(4) Special Topics in Literature
ENGL 570	(4) Topics in the Literature of Power and Place
ENGL 580	(1-3) Special Topics Seminar
ENGL 581	(3) Practicum in Teaching Writing
ENGL 620	(4) Seminar in Critical Theory
ENGL 635	(4) Introduction to English as a Second/Foreign Language
ENGL 681	(2) Internship in Teaching of Literature
ENGL 682	(2) Internship in Teaching of Writing
ENGL 684	(2) Internship in Teaching of ESL

### Employment, Internships & Funding

**Graduate Teaching Associates.** Select MA students have the opportunity to work as Graduate Teaching Associates in the English department under the leadership of the Writing Program Director. Graduate Teaching Associates teach first-year writing: ENGL 104 Accelerated Composition and Rhetoric. If selected as a Graduate Teaching Associate, you will be required to attend a 2.5-day pre-semester teaching workshop during the week prior to fall semester and enroll in ENGL 581 for 3 units during your first semester teaching. Contingent on the availability of funds and student eligibility (as determined by financial aid awards), select Graduate Teaching Associates may receive a tuition waiver during one or more semester(s) they are teaching. For more information, please contact Professor Lisa Tremain, Writing Program Director, at [ldt142@humboldt.edu](mailto:ldt142@humboldt.edu).

**Writing Consultants in the English Department.** Graduate students are encouraged to work as writing consultants in our Writing in the Disciplines Seminar (AHSS 200). Qualified applicants may become paid Writing Fellows. Successfully completing one semester of ENGL 450 Tutoring Developing Writers is a prerequisite for all paid fellow positions. For more information about becoming a Writing Fellow, please contact Prof. Lisa Tremain, Writing Program Director, at [ldt142@humboldt.edu](mailto:ldt142@humboldt.edu).

Writing Studio Consultants in the Learning Center: Writing Studio consultants help other students organize and revise their writing assignments for courses in any subject area. Consultants meet with individual students in 30-minute blocks of time, either by appointment or on a drop-in basis. Consultants work with students to identify areas in their writing

that would benefit from revision, and assist the students' efforts to strengthen their overall papers, rather than proofreading or making changes for students. Regular paid meetings are mandatory. Applicants must have completed ENGL 450 Tutoring Developing Writers or equivalent prior to being hired. Positions typically open before the start of each semester. For more information, please contact Jessica Citti at 707-826-5188 or [jessica.citti@humboldt.edu](mailto:jessica.citti@humboldt.edu).

**Teaching Internships.** Graduate students may intern in literature, composition, business and professional writing, or English as a second language classes, where they work closely with faculty teaching the courses. Interns are exposed to a wide range of teaching activities and experiences, and receive mentoring from the faculty of record. Certain coursework may be necessary before enrolling in an internship. Consult the catalog and the graduate coordinator before enrolling in a graduate internship. While faculty members typically invite students for these internships. Students are also encouraged to seek out faculty and initiate a conversation about the possibility of working as their teaching interns.

**Library Internships.** Graduate students may intern in HSU Library's Humboldt Room and University Archives. Library Scholar interns gain hands-on experience with archival research and preservation, intellectual property and copyright, scholarly editing and publishing, public history, and museum studies. They work with manuscripts, rare books, and assorted special collections, developing skills including research, publicity, accession processing, digitization, and preparation of exhibits and digital projects. Library Scholar Interns work as a team to complete a variety of projects and receive mentoring from the faculty of record.

**Western Regional Graduate Program.** HSU is a member of the Western Regional Graduate Program (WRGP). WRGP is a program that allows students from fifteen western states to attend HSU and pay California Resident Tuition: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming. The English Department participates in this program. For more information, please consult the WRGP website at <http://wiche.edu/wrgp>.

**Federal Work Study Graduate Research Assistantships.** Qualified MA students who are eligible for work-study funding may be matched with faculty or staff members

whose research or creative projects require a research assistant. Awards of up to \$5,000 per academic year (up to 15 hours of work per week) are typically available contingent upon federal funding. Students must be enrolled in 6 units or more of course work to be eligible. While faculty members typically nominate students for these positions, students are also encouraged to seek out faculty and have a conversation about the possibility of working as their research assistants.



# ENVIRONMENTAL ETHICS MINOR

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## Minor in Environmental Ethics

### Advisors

Matt Johnson, Ph.D.  
WFB 222  
707-826-3218

Rick Brown, Ph.D.  
WFB 260  
707-826-3320

### The Program

This minor provides students with scientific information and a sense of the social, political, and ethical issues involved in environmental decisions.

This minor can help students prepare for careers in environmental law, environmental planning, and natural resource professions.

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: 15-16

Courses are listed in preferred sequence.

### Required

PHIL 302 (3) Environmental Ethics

### Introduction to Environment

Complete one course:

ESM 365 (3) Local Government  
Planning  
FISH 300 (3) Introduction to Fishery  
Biology  
FISH 310 (4) Ichthyology  
FOR 130 (3) Dendrology  
FOR 302 (3) Forest Ecosystems &  
People  
RRS 306 (3) Wildland Resource  
Principles  
WLDF 301 (3) Principles of Wildlife  
Management

### Environmental Issues

Complete one course:

ESM 215 (3) Natural Resources &  
Recreation  
ENGR 305 (3) Appropriate Technology  
FISH 443 (3) Problems in Water  
Pollution Biology  
FOR 374 (3) Wilderness Area Mgmt.  
FOR 432 (4) Silviculture  
OCN 301 (3) Marine Ecosystems —  
Human Impact  
OCN 304 (3) Resources of the Sea  
WLDF 423 (3) Wildlife Management  
(Nongame Management)

Complete one course:

ECON 309 (3) Economics of a  
Sustainable Society  
ESM 400 (3) Inscape & Landscape  
ESM 308 (3) Ecotopia  
FOR 400 (3) Forestry in Modern  
Society  
PHIL 106 (3) Moral Controversies  
PSCI 306 (3) Environmental Politics

### Environmental Decision Making

Complete one course:

ESM 305 (3) Environmental  
Conflict Resolution  
WLDF 309 (3) Case Studies in  
Environmental Ethics

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# ENVIRONMENTAL RESOURCES ENGINEERING

## **Bachelor of Science degree with a major in Environmental Resources Engineering**

See *Environmental Systems for the Master of Science degree with concentrations in Environmental Resources Engineering (ERE) and Energy Technology & Policy (ETaP)*.

### **Department Chair**

Eileen Cashman Ph.D.

### **Department of Environmental Resources Engineering**

Harry Griffith Hall 119  
707-826-3619  
engineering@humboldt.edu  
engineering.humboldt.edu

For a complete description of the ERE program, including its program goals, see our webpage at [engineering.humboldt.edu](http://engineering.humboldt.edu).

### **Mission Statement**

The mission of the ERE program is to educate students to identify and solve complex environmental resources engineering problems. The program prepares responsible leaders who will sustain, restore and protect our natural resources and the environment.

### **The Program**

Students completing this program will have demonstrated:

- an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
- an ability to communicate effectively with a range of audiences
- an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
- an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- an ability to acquire and apply new knowl-

edge as needed, using appropriate learning strategies.

HSU offers one of the largest and oldest undergraduate accredited environmental engineering programs in the United States. While studying in one of the most environmentally interesting areas of California, Environmental Resources Engineering students will learn to apply an interdisciplinary approach to understanding and resolving resource planning and management problems in their social, economic, ethical, and historical contexts.

Program coursework and research are in three primary areas: water quality, water resources, and energy resources.

Students prepare for work in industry, private practice, or government, or for continued studies in graduate school.

Potential careers include: environmental engineer; civil engineer; groundwater engineer; energy engineer; air pollution engineer; ecological engineer; fisheries engineer; hazardous waste engineer; hydraulic engineer; hydrologist; public health engineer; public works engineer; sanitary engineer; solid waste engineer; water resources engineer; water quality engineer; building energy efficiency analyst; wind power analyst/engineer; solar power engineer; energy storage systems engineer; habitat restoration engineer.

The Environmental Resources Engineering program at Humboldt State University is accredited by the Engineering Accreditation Commission of ABET, [abet.org](http://abet.org).

### **Preparation**

Students interested in becoming an ERE major should take courses in biology, chemistry, physics, mathematics, critical thinking, and oral/written communications.

### **REQUIREMENTS FOR THE MAJOR**

#### **Modifications to General Education Requirements**

The ERE program has approval for the following GE requirements to be fulfilled by completion of all ERE major coursework. Lower Division GE Areas A: Oral Communication (3 units), A: Critical Thinking (3 units), D (3 units), and E (3 units); Upper Division GE Area B: (3 units). In addition, the ERE program has approval for courses fulfilling requirements in American Institutions (6 units) to count as fulfilling Lower Division GE Area D requirements (6 units).

Students who change out of the ERE major are encouraged to contact the Office of the Registrar or the Academic & Career Advising Center regarding completion of GE requirements.

The following degree requirements must be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

- Lower Division GE Area A: Written Communication (3 units)
- Lower Division GE Area C (9 units)
- American Institutions (6 units)
- Upper Division GE Area C (3 units)
- Upper Division GE Area D (3 units)
- Diversity & Common Ground (0-6 units)

### **Unit Requirements**

**Total units in the major: 96**

**Total units required to graduate: 120**

### **Special Grade Requirements**

A minimum grade of C- is required for all courses in the major. Grades of D+, D, F, WU, and NC count as failed attempts. Required courses in the major may not be repeated more than one time. If a student has two failed attempts in a required course, the student will not be able to graduate with an ERE degree.

### **Lower Division**

BIOL 105	(4)	Principles of Biology
CHEM 109	(5)	General Chemistry I
CHEM 110	(5)	General Chemistry II
MATH 109	(4)	Calculus I
MATH 110	(4)	Calculus II
MATH 210	(4)	Calculus III
PHYX 211	(4)	General Physics C
ENGR 115	(3)	Intro to Environmental Resources Engineering
ENGR 210	(3)	Solid Mechanics: Statics
ENGR 211	(3)	Solid Mechanics: Dynamics
ENGR 215	(3)	Introduction to Design
ENGR 225	(3)	Computational Methods for Environmental Engineering I

### **Upper Division**

ENGR 313	(3)	Systems Analysis
ENGR 322	(4)	Environmental Data Modeling & Analysis
ENGR 325	(3)	Computational Methods for Environmental Engineering II
ENGR 326	(3)	Computational Methods for Environmental Engineering III

ENGR 330	(3) Mechanics & Science of Materials	ENGR 478	(3) Electricity Grids & Distributed Renewable Energy
ENGR 331	(3) Thermodynamics & Energy Systems I	ENGR 481	(3) Selected Topics with Engineering Design
ENGR 333	(4) Fluid Mechanics	ENGR 498	(3) Directed Design Project
ENGR 351	(4) Introduction to Water Quality		
ENGR 410	(3) Environmental Health & Impact Assessment	■ ■ ■	
ENGR 416	(3) Transport Phenomena		
ENGR 440	(3) Hydrology I		
ENGR 492	(3) Capstone Design Project		

### Major Elective Program

With advice and approval of an Environmental Resources Engineering faculty advisor and the department chair, select one upper division science or natural resources course and three senior engineering design courses from the following lists to form a coherent elective program.

One science/natural resources course:

BIOL 330	(4) Principles of Ecology
CHEM 341	(5) Quantitative Analysis
CHEM 370	(3) Earth Systems Chemistry
FISH 320	(3) Limnology
GEOL 303	(3) Earth Resources & Global Environmental Change
GEOL 306	(3) General Geomorphology
PHYX 315	(3) Intro to Electronics & Electronic Instrumentation
SOIL 360	(3) Origin and Class of Soils
SOIL 363	(3) Wetland Soils

Three engineering design courses:

ENGR 418	(3) Applied Hydraulics
ENGR 421	(3) Advanced Numerical Methods for Engineers I
ENGR 434	(3) Air Quality Management
ENGR 436	(3) Solid Waste Engineering
ENGR 441	(3) Hydrology II
ENGR 443	(3) Groundwater Hydrology
ENGR 445	(3) Water Resources Planning & Management
ENGR 448	(3) River Hydraulics
ENGR 452	(3) Drinking Water Treatment Engineering
ENGR 453	(3) Wastewater Treatment Engineering
ENGR 455	(3) Engineered Natural Treatment Systems
ENGR 471	(3) Thermodynamics & Energy Systems II
ENGR 473	(3) Building Energy Analysis
ENGR 475	(3) Renewable Energy Power Systems

# ENVIRONMENTAL SCIENCE & MANAGEMENT

## Bachelor of Science degree with a major in Environmental Science & Management — with concentrations in:

Ecological Restoration  
Energy & Climate  
Environmental Education & Interpretation  
Environmental Planning & Policy  
Geospatial Science  
Natural Resources Recreation

## Minors

Ecological Restoration  
Environmental Education & Interpretation  
Environmental & Natural Resources Planning  
Environmental Policy  
Natural Resources  
Natural Resources Recreation

## Certificates of Study

Environmental Education & Interpretation  
Environmental & Natural Resources Planning  
Geospatial Science  
Natural Resources Policy & Administration

## Master of Science degree in Natural Resources — with a concentration in Environmental Science & Management

## Department Chair

Steven R. Martin, Ph.D.

## Environmental Science & Management

Natural Resources Building 200  
707-826-4147  
environment.humboldt.edu

## Associated Faculty & Advisors

Natalie Arroyo, Gillian Black, Craig Benson, Kerry Byrne, Jeff Dunk, Yvonne Everett, Kevin Fingerma, James Graham, David Gwenzi, Jennifer Kalt, Buddhika Madurapperuma, Nick Malloy, Jennifer Marlow, Steven Martin, Judith Mayer, Melanie McCavour, Jack Murphy, Alison O'Dowd, Jennifer Ortega, Laurie Richmond, Amy Rock, Roxann Schroeder, Jennifer Tarlton, William Trush, Julie Van Sickle, Casey Vaughn, Tashina Welliver

## The Program

Students completing this program will have demonstrated:

- the ability to apply science to understanding ecosystems and natural resources
- the ability to understand the policy and social implications of environmental issues.

- the knowledge and skills to understand, analyze, address and manage the consequences of human actions on the physical, biological, and cultural world.

- the knowledge and skills to seek out the information and resources necessary to understand complex environmental issues.

- the writing, speaking, and electronic communication skills needed to communicate with the public and professionals concerning the environmental sciences.

- the ability to apply critical thinking skills as the basis for decision making and sound value judgments.

Graduates should find work with state, federal, and local governments, nonprofit conservation organizations, private sector consulting firms (particularly those dealing with environmental impact analysis, environmental planning, wetlands delineation, environmental restoration, geospatial applications in natural resources, energy technology and planning, and natural resource management), or go on to professional and graduate schools to study ecology, environmental law, environmental planning, human dimensions of natural resources, outdoor recreation management, geospatial science, natural resources management, wilderness management, public administration, or environmental policy.

## Preparation

High school students need strong academic preparation in math, writing, and the sciences.

## REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

## Unit Requirements

**Core units:** 24  
**Concentration units:** 39-54  
**Total units in the major:** 73-78  
**Total units required for the degree:** 120

## Special Grade Requirement

Complete all courses in the major with a grade of C- or better.

## Core Courses (24 units)

ESM 105 (3) Natural Resource Conservation  
ESM 111 (1) Environmental Science Seminar  
GSP 101 (2) Geospatial Concepts and

GSP 101L (1) Geospatial Concepts Lab  
STAT 109† (4) Introductory Biostatistics  
ESM 230 (3) Environmental Methods  
ESM 303 (4) Applied Natural History & Ecology  
ESM 305 (3) Environmental Conflict Resolution  
ESM 325 (3) Environmental Law & Regulation

## Concentrations

Complete one of the following concentrations to fulfill the requirements of the major:

## Ecological Restoration Concentration (47 units)

### Lower Division

BIOL 105 (4) Principles of Biology  
BOT 105 (4) General Botany  
CHEM 107 (4) Fundamentals of Chemistry  
GSP 270 (3) Geographic Information Science (GIS)  
SOIL 260 (3) Intro to Soil Science

### Upper Division

BOT 350 (4) Plant Taxonomy  
ESM 355 (3) Principles of Ecological Restoration  
ESM 425 (3) Environmental Impact Assessment  
ESM 435 (2) Grant Writing  
ESM 455 (4) Applied Ecological Restoration  
FOR 315 (3) Forest Management and  
FOR 431 (3) Forest Restoration, or  
RRS 306 (3) Rangeland Resource Principles and  
RRS 430 (3) Wildland Restoration & Development  
WSHD 310 (4) Hydrology & Watershed Management

Complete **one** upper division course approved by your advisor; from BOT, ESM, FISH, FOR, GEOL, GSP, RRS, SOIL, WSHD, or WLDF. (Prerequisites may be required for some courses, depending on choice.)

**NOTE: 24 units may double-count toward GE requirements.**

† Course requires one or more prerequisites that are not required elsewhere in the major.

## Energy & Climate Concentration (54 units)

### Lower Division

BIOL 105 (4) Principles of Biology, **or**  
BOT 105 (4) General Botany

CHEM 107 (4) Fundamentals of  
Chemistry \*\*

ECON 104 (3) Contemporary Topics in  
Economics

MATH 105† (3) Calculus for the Biological  
Sciences & Natural  
Resources

PHYX 106 (4) College Physics:  
Mechanics & Heat

PHYX 107 (4) College Physics:  
Electromagnetism &  
Modern Physics

### Upper Division

ECON 450 (4) Energy Economics &  
Climate Policy

ENGR 305 (3) Appropriate Technology

ENGR 371 (3) Energy Systems &  
Technology

ESM 370 (3) Energy, Technology &  
Society

ESM 411 (3) Energy & Climate Capstone

ESM 425 (3) Environmental Impact  
Assessment

*Complete two climate science courses:*

CHEM 370 (3) Earth System Chemistry

OCN 420† (3) Oceans and Climate

WSHD 458 (3) Climate Change & Land  
Use

*Complete two tools courses:*

ECON 423 (3) Environmental & Natural  
Resource Economics

ESM 309B (3) Environmental  
Communication

ESM 435 (2) Grant Proposal Writing

GSP 270 (3) Geographic Information  
Science (GIS)

GEOG 301 (3) International Environmental  
Issues & Globalization

**NOTE: 24 units may double-count toward  
GE requirements.**

### Environmental Education & Interpretation Concentration (48 units)

BIOL 105 (4) Principles of Biology, **or**  
BOT 105 (4) General Botany

GEOG 109 (4) Introduction to Geology, **or**  
SOIL 260 (3) Introduction to Soil  
Science

CHEM 107 (4) Fundamentals of  
Chemistry, **or**

GEOG 106 (3) Physical Geography, **or**  
PHYX 104 (4) Descriptive Astronomy

ESM 210 (3) Public Land Use Policies  
& Management

ESM 215 (3) Natural Resources &  
Recreation

ESM 253 (3) Interpretive Computer  
Graphics

CD 209 (3) Middle Childhood  
Development

ESM 350 (3) Fundamentals of  
Environmental Education  
& Interpretation

ESM 351 (1) Environmental  
Interpretation Field Trip

ESM 353 (3) Environmental Education  
& Interpretation Graphics

ESM 430 (3) NR Management in  
Protected Areas

ESM 450 (3) Applied Environmental  
Education & Interpretation

ESM 453 (4) Environmental Education &  
Interpretation Practicum  
(capstone)

ESM 482 (2) Internship, **or**

ESM 499 (2) Directed Study

*Complete one skills course:*

ART 340 (3) Graphic Design II

ART 356 (3) Museum & Gallery  
Practices

ESM 309B (3) Environmental  
Communication

ESM 425 (3) Environmental Impact  
Assessment

GSP 270 (3) Geographic Information  
Science (GIS)

REC 330 (3) Adventure Theory &  
Practice

Plus one upper division science or natural  
resources depth course approved by advisor  
(3 units).

**NOTE: 24 units may double-count toward  
GE requirements.**

### Environmental & Natural Resources Recreation Concentration (45 units)

BIOL 105 (4) Principles of Biology, **or**  
BOT 105 (4) General Botany

CHEM 107 (4) Fundamentals of  
Chemistry\*\*

ESM 210 (3) Public Land Use Policies  
& Management

ESM 215 (3) Natural Resources &  
Recreation

SOIL 260 (3) Intro to Soil Science

GSP 270 (3) Geographic Information  
Science (GIS)

FOR 374 (3) Wilderness Area  
Management

ESM 415 (3) Recreation & Park  
Planning (alternate years)

ESM 425 (3) Environmental Impact  
Assessment

ESM 430 (3) NR Management in  
Protected Areas

ESM 435 (2) Grant Proposal Writing

ESM 440 (2) Managing Recreation  
Visitors &

ESM 440L (1) Managing Recreation  
Visitors Lab

ESM 482 (2) Internship, **or**

ESM 499 (2) Directed Study

*Complete one skills course:*

ESM 253 (3) Interpretive Computer  
Graphics

ESM 309B (3) Environmental  
Communication

ESM 350 (3) Fundamentals of  
Environmental Education  
& Interpretation

GSP 330 (3) Mobile Mapping

GSP 370 (3) Intermediate GIS

Plus one upper division natural resources  
management course (3 units), approved by  
advisor, from FISH, FOR, ESM, RRS, SOIL,  
WSHD, WLDF.

**NOTE: 24 units may double-count toward  
GE requirements.**

### Environmental Planning & Policy Concentration (45-47 units)

#### Lower Division

BOT 105 (4) General Botany

CHEM 107 (4) Fundamentals of  
Chemistry\*\*

ESM 210 (3) Public Land Use Policies  
& Management

GSP 270 (3) Geographic Information  
Science (GIS)

#### Upper Division

ESM 360 (3) Intro to Environmental  
Planning Methods

ESM 365 (3) Local Government Planning

ECON 423 (3) Environmental & NR  
Economics

ESM 425 (3) Environmental Impact  
Assessment

ESM 435 (2) Grant Proposal Writing

ESM 460 (3) Environmental Planning  
for Public Lands & Rural  
Communities, **or**

ESM 462 (3) Coastal & Marine Planning

† Course requires one or more prerequi-  
sities that are not required in the major.

\*\* CHEM 109 & CHEM 110 may be  
substituted for CHEM 107.

ESM 475	(4) Senior Practicum (Capstone)
ESM 482	(2) Internship, <b>or</b>
ESM 499	(2) Directed Study
<i>Complete one ecology &amp; management course:</i>	
ESM 355	(3) Principles of Ecological Restoration
ESM 370	(3) Energy Technology & Society
ESM 420	(3) Ecosystem Analysis
ESM 430	(3) Natural Resource Management in Protected Areas
FOR 321	(3) Fire Ecology
FOR 374	(3) Wilderness Area Management
FISH 476†	(3) Ecology of Running Waters
WLDF 460†	(3) Conservation Biology

*Complete one natural resource science fundamentals course:*

FOR 130	(3) Dendrology
GEOL 109	(3) General Geology
SOIL 260	(3) Intro to Soil Science
BOT 350†	(4) Plant Taxonomy
WSHD 310	(4) Hydrology & Watershed Management

*Complete two upper division policy and management courses, chosen from a list of approved courses provided by your advisor, from ENGR, FISH, FOR, GEOG, NAS, PHIL, PSCI, RRS, SOIL, WSHD, WLDF. (Prerequisites may be required for some courses, depending on choice.)*

**NOTE: 24 units may double-count toward GE requirements.**

### Geospatial Science Concentration (39 units)

#### Lower Division

GEOG 106	(3) Physical Geography
GSP 216	(3) Intro to Remote Sensing
GSP 270	(3) Geographic Information Science (GIS)

#### Upper Division

GSP 316	(4) Cartography
GSP 318	(3) Geospatial Programming I
GSP 326	(3) Intermediate Remote Sensing
GSP 330	(3) Mobile Mapping
GSP 370	(3) Intermediate GIS
GSP 418	(3) Geospatial Programming II, <b>or</b>

† Course requires one or more prerequisites that are not required in the major.

GSP 436	(3) Advanced Remote Sensing, <b>or</b>
GSP 470	(3) Advanced Geospatial Analysis & Modeling
ESM 410	(3) Geospatial Capstone
ESM 425	(3) Environmental Impact Assessment
ESM 435	(2) Grant Proposal Writing
<i>Complete one natural resources depth or course approved by advisor; minimum 3 units:</i>	
ESM 360	(3) Intro to Environmental Planning Methods
ESM 430	(3) Natural Resource Mgmt. in Protected Areas
FISH 220	(3) Water Resources & Conservation
FISH 260	(3) Fish Conservation & Mgmt.
FISH 300	(3) Intro to Fishery Biology
FOR 302	(3) Forest Ecosystems & People
FOR 307	(3) California's Forests & Woodlands
GEOL 300†	(3) Geology of California
GEOL 303	(3) Earth Resources & Global Environmental Change
GEOL 306†	(3) General Geomorphology
GEOL 308	(3) Natural Disasters
OCN 301	(3) Marine Ecosystems — Human Impact
OCN 304	(3) Resources of the Sea
RRS 306	(3) Wildland Resource Principles
WSHD 310	(4) Hydrology & Watershed Management
WSHD 333	(3) Wildland Water Quality
WLDF 301	(3) Principles of Wildlife Management
WLDF 468	(3) Spatial Wildlife Ecology

FOR 307	(3) California's Forests & Woodlands
GEOL 300†	(3) Geology of California
GEOL 303	(3) Earth Resources & Global Environmental Change
GEOL 306†	(3) General Geomorphology
GEOL 308	(3) Natural Disasters
OCN 301	(3) Marine Ecosystems — Human Impact
OCN 304	(3) Resources of the Sea
RRS 306	(3) Wildland Resource Principles
WSHD 310	(4) Hydrology & Watershed Management
WSHD 333	(3) Wildland Water Quality
WLDF 301	(3) Principles of Wildlife Management
WLDF 468	(3) Spatial Wildlife Ecology

**NOTE: 27 units may double-count toward GE requirements.**

### REQUIREMENTS FOR THE MINORS

#### Special Grade Requirement

Complete all courses in the minor with a C- or better.

#### Ecological Restoration Minor

**Total units required for the minor: 16**

BOT 105	(4) General Botany
SOIL 260	(3) Intro to Soil Science
ESM 355	(3) Principles of Ecological Restoration

*Complete either:*

FOR 315	(3) Forest Management <b>and</b>
FOR 431	(3) Forest Restoration
<b>or</b>	
RRS 306	(3) Rangeland Resource Principles <b>and</b>

RRS 430	(3) Wildland Restoration & Development
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#### Environmental Education & Interpretation Minor

**Total units required for the minor: 19**

ESM 215	(3) Natural Resources & Recreation
ESM 253	(3) Interpretive Computer Graphics [or equivalent]
ESM 350/351	(3/1) Fundamentals of Environmental Education & Interpretation, <b>and</b> Field Trip
ESM 353	(3) Environmental Education & Interpretation Graphics
ESM 430	(3) NR Management in Protected Areas
ESM 450	(3) Applied Environmental Education & Interpretation

#### Environmental & Natural Resources Planning Minor

**Total units required for the minor: 18**

GEOG 106	(3) Physical Geography
ESM 105	(3) Natural Resource Conservation
ESM 210	(3) Public Land Use Policies & Management
ESM 360	(3) Intro to Environmental Planning Methods

Plus two courses from the following:

ESM 325	(3) Environmental Law & Regulation
ESM 365	(3) Local Government Planning
ESM 425	(3) Environmental Impact Assessment

#### Environmental Policy Minor

**Total units required for the minor: 18-19**

ESM 105	(3) Natural Resources Conservation
ESM 210	(3) Public Land Use Policies & Management
ESM 325	(3) Environmental Law & Regulation
ESM 425	(3) Environmental Impact Assessment
PSCI 306	(3) Environmental Politics

*Complete one course from the following:*

ECON 423	(3) Environmental & Natural Resource Economics
NAS 332	(3) Environmental Justice
PSCI 317	(4) Public Policy Process
PSCI 352	(4) Water Politics
PSCI 364	(4) Technology & Development
PSCI 373	(4) Politics of Sustainability
PSCI 412	(4) Legal Research
WSHD 430	(3) Water Rights/Water Law

### Natural Resources Minor

Total units required for the minor: 19

- BIOL 105 (4) Principles of Biology
- ESM 105 (3) Natural Resource Conservation
- SOIL 260 (3) Introduction to Soil Science

At least three courses from the following  
(at least 6 units must be 300 or above):

- ESM 210 (3) Public Land Use Policies & Management
- ESM 215 (3) Natural Resources & Recreation
- ESM 365 (3) Local Government Planning
- FISH 300 (3) Introduction to Fishery Biology
- FOR 315 (3) Forest Management
- FOR 374 (3) Wilderness Area Mgmt.
- OCN 301 (3) Marine Ecosystems – Human Impact
- OCN 304 (3) Resources of the Sea
- RRS 306 (3) Wildland Resource Principles
- WLDF 301 (3) Principles of Wildlife Management

### Natural Resources Recreation Minor

Total units required for the minor: 17-18

- ESM 210 (3) Public Land Use Policies & Management
- ESM 215 (3) Natural Resources & Recreation
- ESM 305 (3) Environmental Conflict Resolution, **or**
- ESM 309B (3) Environmental Communication
- FOR 374 (3) Wilderness Area Mgmt.
- ESM 415 (3) Recreation & Park Planning, **or**
- ESM 440 (2) Managing Recreation Visitors
- ESM 430 (3) NR Management in Protected Areas



# ENVIRONMENTAL STUDIES

## Bachelor of Arts degree with a major in Environmental Studies

### Program Chair

Sarah Jaquette Ray, Ph.D.

### Environmental Studies Program

Founders Hall 109

707-826-3946

environmentalstudies@humboldt.edu

enst.humboldt.edu

### Affiliated Faculty & Advisors

Janelle Adsit, English

Mark Baker, Politics

Cutchu Risling Baldy, Native American Studies

Loren Cannon, Philosophy

Deepti Chatti, Environmental Studies

Matthew Derrick, Geography, Environment and Spatial Analysis

Kevin Fingerma, Environmental Science and Management

Will Fisher, Economics

Lonny Grafman, Environmental Resources Engineering

Nicole Jean Hill, Art

John Meyer, Politics

Rosemary Sherriff, Geography, Environment and Spatial Analysis

Anthony Silvaggio, Sociology

Noah Zerbe, Politics

### The Program

Do you love the natural world but also love thinking about culture, people, politics, media, economics, history, literature, art, and identity? Do you want to save the planet and also make the world a more equitable place for all its inhabitants? Do you want to develop a wide range of skills to address the world's most pressing environmental and social dilemmas? Consider an interdisciplinary Environmental Studies degree at HSU.

Environmental studies provides students with tools for understanding the complex relationships between human communities and both "natural" and built environments. The program cultivates critical analysis of environmental problems using tools from a variety of disciplines, helps students analyze environmental messages and communicate them effectively, and enables them to act as informed citizens and professionals. This requires knowledge of earth systems science as well as human systems, informed by careful reflection upon ethical concerns and societal values. Students tailor their focus in the degree by choosing a suite of ap-

plied courses in one of the "emphasis area" options: Ecology and Conservation Science, Geospatial Analysis, Media Production, Community Organizing, or Appropriate Technology.

Students completing this program will be able to:

- demonstrate understanding of how environmental challenges involve multiple perspectives and social contexts, and recognize the role of power and privilege in shaping them
- demonstrate literacy with earth systems
- use humanistic, creative, and social scientific approaches to understand environmental challenges
- understand how different research methods lead to diverse environmental knowledges
- critically evaluate normative claims about and representations of the environment.

### REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

#### Unit Requirements

Core units:	<b>31</b>
Emphasis units:	<b>9-11</b>
Total units in the major:	<b>55-62</b>
Total units required for the degree:	<b>120</b>

#### Special Grade Requirement

Complete all courses in the major with a C- or better.

#### Core Courses (31 units)

The following core courses are required for all majors.

#### Lower Division

ENST 120	(1) Introductory Seminar to Environmental Studies
ENST 195	(3) Topics in Nature/Culture
ENST 295	(4) Power/Privilege & Environment [DCG-d]
GEOG 106	(3) Physical Geography
ESM 230 †	(3) Environmental Methods,
<b>or</b>	
GSP 101	(2) Geospatial Concepts <b>and</b>
GSP 101L	(1) Geospatial Concepts Lab*

\*GSP 101/101L are required for the Geospatial Analysis emphasis)

#### Upper Division

ECON 423	(3) Environmental & Natural Resources Economics
ENST 395	(4) Environmental Studies Research & Analysis
ENST 490	(4) Environmental Studies Capstone Experience, <b>or</b>
ENST 490S	(4) Environmental Studies Capstone Experience with Service Learning
NAS 331	(3) Indigenous Natural Resource Management Practices, <b>or</b>
NAS 332	(3) Environmental Justice
PSCI 306	(3) Environmental Politics

#### Arts and Humanities

Complete 6-8 units from the following:

ART 395	(3) Topics in Art: Art & Place
ENGL 311	(4) Environmental Writing
ESM 309B	(3) Environmental Communication
GEOG 311	(3) Geographic Research & Writing
PHIL 302	(3) Environmental Ethics
RS 361	(3) Environment & Religion
WS 340	(3-4) Ecofeminism
ENST 480	(1-4) Special Topics

#### Earth Systems Science

Complete one of the following:

GEOG 302	(3) Global Ecology & Biodiversity
GEOG 352	(3) Weather, Climate, and Natural Hazards
GEOG 357	(3) Climate, Ecosystems & People
GEOG 303	(3) Earth Resources & Global Environmental Change
OCN 304	(3) Resources of the Sea
WSHD 310	(4) Hydrology & Watershed Management

#### Social Sciences

Complete two of the following:

ECON 309	(3) Economics of Sustainable Society
GEOG 301	(3) International Environmental Issues & Globalization
GEOG 365/PSCI 365	(4) Political Ecology
NAS 366	(4) Tribal Water Rights
PSCI 364	(4) Technology & Development
PSCI 373	(4) Politics of Sustainability

† Course requires a prerequisite that is not required elsewhere in the major.

- SOC 320 (4) Environmental Sociology  
 SOC 370 (3) Environmental Inequality  
 & Globalization

**Emphases (9–11 units)**

Complete one emphasis to fulfill the requirements of the major.

The emphasis areas are designed to provide students with skills that complement the core Environmental Studies curriculum. Emphases are not listed on your diploma or transcripts, but you can highlight this additional skill-set on your resume and elsewhere.

**Appropriate Technology Emphasis (10 units)**

Complete all of the following:

- ENST 123 (1) CCAT Practicum (Take twice with different topics for a total of 2 units.)  
 SOIL 104 (3) Intro to Sustainable Agriculture  
 ENGR 305 (3) Appropriate Technology  
 ENGR 308 (3) Technology & the Environment

**Community Organizing Emphasis (10-11 units)**

- COMM 315 (4) Communication & Social Advocacy  
 COMM 416 (3) Social Advocacy Theory & Practice  
 CRGS 313/EDUC 313 (3) Community Activism, **or**  
 SOC 475 (4) Community Organizing

**Ecology & Conservation Science Emphasis (9-11 units)**

Complete one of the following:

- BIOL 105 (4) Principles of Biology  
 BOT 105 (4) General Botany  
 WLDF 210 (3) Intro to Wildlife Conservation  
 ZOOL 110 (4) Introductory Zoology

Complete one of the following:

- BIOL 330 † (4) Principles of Ecology  
 WLDF 301 † (3) Principles of Wildlife Management

Complete this course.

- WLDF 460 † (3) Conservation Biology

**Geospatial Analysis Emphasis (9-10 units)**

Complete two of the following:

- GSP 216 † (3) Introduction to Remote Sensing  
 GSP 270 † (3) Geographic Information Science (GIS), **or**

- GSP 280 † (3) Special Topics in GSP (when offered as GIS for the Social Sciences)

- GSP 316 † (4) Cartography

**or both of**

- GSP 270 † (3) Geographic Information Science (GIS), **or**  
 GSP 280 † (3) Special Topics in GSP (when offered as GIS for the Social Sciences)  
 GSP 370 † (3) Intermediate Geographic Information Science (GIS)

**Media Production Emphasis (9-10 units)**

Complete 6 units from the following:

- ART 108 (3) Graphic Design I  
 ART 251 (3) Photography I  
 JMC 120 (3) Beginning Reporting  
 JMC 125 (3) Intro to Journalism Tools  
 JMC 156 (3) Video Production

Complete at least 3 units from the following:

- ENGL 460 (4) Literary Editing & Publishing (*Toyon*)  
 FILM 360 (4) Science, Environment & Natural History Digital Production  
 FILM 362 (4) Social Change Digital Production  
 JMC 325 (2) Osprey Magazine Production  
 JMC 327 (2) Lumberjack News Workshop  
 JMC 336 (3) Advanced Video Production  
 JMC 490 (1) Seminar in Journalism (Topic: El Leñador)

† See course description for prerequisites.



# ENVIRONMENTAL SYSTEMS

## Master of Science degree in Environmental Systems —

with concentrations in Energy Technology & Policy; Environmental Resources Engineering; and Geology

*This program is administered by the coordinator of the environmental systems graduate program of the College of Natural Resources and Sciences.*

### Coordinator

Margaret Lang, Ph.D.

### Graduate Office

College of Natural Resources & Sciences  
Forestry 101  
707-826-3256

### The Program

Students completing this program will have demonstrated:

- the ability to read the current literature in their area with understanding and insight
- the ability to apply that current research to the solution of environmental and resource management problems in their area of interest
- the ability to successfully work as a team member on the solution of environmental and resource management problems
- the ability to clearly articulate an understanding of and solutions to environmental and resource management problems
- the ability to define and conceptualize an environmental problem, develop an appropriate approach to its solution, successfully complete the project, and clearly communicate the results.

The **Energy Technology and Policy Concentration** is an interdisciplinary program for students interested in issues ranging from renewable energy engineering to climate change mitigation, and from international development to energy policy in California. The program offers a rigorous curriculum for students who are interested in making a difference in these important areas of work.

Career possibilities: energy engineer, energy policy analyst, environmental projects manager, international development worker.

The **Environmental Resources Engineering Concentration** focuses on the design, testing, and analysis of natural and engineered systems applied to advanced water and wastewater treatment, water resources, and renewable energy. Career possibilities:

environmental engineer, water quality engineer, energy engineer, water resources engineer.

The **Geology Concentration**, during its first year, gives a quantitative and qualitative background for research in applied geology. Students usually spend their summers on thesis research. The second year is devoted to research, data analysis, and writing the thesis.

Career possibilities: field geologist, engineering geologist, exploration geophysicist, hydrologist, and marine geologist.

### Preparation

Earn an approved bachelor's degree for the selected concentration.

Satisfy general admission requirements.

Earn satisfactory test scores from the verbal and quantitative sections of the Graduate Record Examination.

File a statement of objectives with reasons for pursuing a master's degree with a particular concentration.

### REQUIREMENTS FOR THE DEGREE

*For a description of degree requirements to be fulfilled in addition to those listed below see, "The Master's Degree" section of the catalog, pp. 83-84.*

Complete an environmental systems program of courses arranged with a graduate advisor and approved by the faculty graduate committee. The program must include the core courses below plus an environmental systems concentration. Background deficiencies may be satisfied by taking approved undergraduate courses.

### Unit Requirements

**Total units required for the degree: 30**

### Core Requirements

*Complete the core course requirement:*

SCI 698 (1-3) Graduate Colloquium in Environmental Systems

*Complete one of the following concentrations: Energy Technology and Policy; Environmental Resources Engineering; or Geology.*

*Write an acceptable thesis/project.*

## Energy Technology & Policy Concentration

### Prerequisites

An appropriate undergraduate degree and sufficient preparation is required. Prior coursework in areas including elementary statistics and probability, calculus, physics, and chemistry is expected. Engineering, math, and natural science students will benefit from having had at least 6 semester units of sociology, anthropology, economics, political science, or another related social science. Students who aspire to work internationally should have at least one year of training in a language other than English, or equivalent experience. Students with deficient preparation will be expected to satisfy background coursework prior to beginning the program. Deficiencies may be made up concurrently with prior approval in some cases, but this may extend time in the program.

### Required Courses

*Complete all core requirements listed under Requirements for the Degree plus the following concentration requirements:*

ENGR 532 (4) Energy, the Environment, and Society  
ECON 550 (4) Economics of Energy & Climate Policy  
STAT 630 (4) Data Collection & Analysis

*Complete at least one additional course from the following:*

ENGR 533 (4) Energy & Climate Change  
ENGR 535 (4) Development Technology

### Approved Elective Courses

*Complete a coherent package of at least four upper division and graduate courses that bring the total to at least 30 units.*

## Environmental Resources Engineering Concentration

### Prerequisites

Applicants should have an undergraduate major in engineering (civil, mechanical, agricultural, chemical, industrial, environmental, or other) or a related physical science. Students with deficiencies in core competencies associated with Environmental Resources Engineering may be required to take prerequisite coursework.

### Required Courses

Complete all core requirements listed under Requirements for the Degree, plus at least three graduate level engineering courses from an approved list. In addition, students must complete approved coursework in topics related to engineering, associated sciences, economics, and policy to bring the total number of units to at least 30. Up to 6 units of thesis or project work may be applied to the degree. Note that courses taken at the 400-level for an undergraduate degree may not be repeated at the 500-level for credit towards the graduate degree.

Approved coursework must include one course each in economics and policy. Allowable courses include those listed below or appropriate alternative non-general education upper division or graduate level courses approved by the student's academic advisor.

### Approved Economics Courses

- ECON 423\* (3) Environmental & Natural Resources Economics
- ECON 423D (1) Environmental & Natural Resources Economics - Additional Depth
- ECON 550 (4) Economics of Energy & Climate Policy
- ECON 570 (4) Sustainable Rural Economic Development

\*Must be taken concurrently with the corresponding Additional Depth course

### Approved Policy Courses

- ENGR 532 (4) Energy, Environment & Society
- ENGR 545 (3) Water Resources Planning & Mgmt.
- GEOG 473 (1-4) Topics in Physical Geography

### Geology Concentration

#### Program Prerequisites

Applicants should (a) have an undergraduate major in geology or a related science and (b) submit transcripts and Graduate Record Examination scores in both aptitude and geology. Applicants must have at least a year of college physics and a minimum of two semesters of calculus (three semesters desirable).

#### Required Courses

Complete all core requirements above plus concentration requirements:

- GEOL 550 (3) Fluvial Processes
- GEOL 551 (3) Hillslope Processes
- GEOL 553 (4) Quaternary Stratigraphy
- GEOL 554 (2) Advanced Geology Field Methods
- GEOL 555 (3) Neotectonics
- STAT 630 (4) Data Collection & Analysis

**Approved upper division and graduate courses** in a coherent package to bring the total units to 30. Electives generally will be taken within the College of Natural Resources and Sciences.



DRAFT

# ETHNIC STUDIES (COMPARATIVE) MINOR

## Minor in Comparative Ethnic Studies

See also the *Ethnic Studies Emphasis within the Critical Race, Gender and Sexuality Studies (CRGS) major*:

### Department Chair

Kim Berry, Ph.D.

### Department of Critical Race, Gender and Sexuality Studies

Behavioral & Social Sciences 206  
707-826-4329, fax 707-826-4320  
crgs.humboldt.edu

### The Program

Students completing this minor will have demonstrated the ability to:

- use intersectional analysis to examine social issues
- explain prominent debates in critical social theory
- articulate the relationship between social justice movements and history.

Comparative Ethnic Studies uses interdisciplinary and cross-cultural comparative methods to provide diverse perspectives that challenge monolithic thinking about the formation of identities and societies. It reveals silenced and marginalized voices from different frames of cultural reference and seem silenced while others seem amplified in local, national, and global contexts. This program specifically explores and compares the experiences of American ethnic groups (such as African Americans, Latin@s, Asian Americans, Native Americans, and Euro-Americans) at the local and national level. At the same time, it pushes students to think globally and reach beyond American borders. It prepares students to better understand the intersections of race, ethnicity, class, gender, sexuality, nationality, and religion in the experiences of all groups and individuals, including those with privilege and power. Comparative Ethnic Studies creates a complex, self-reflexive, inclusive, and interactive model for critical thinking and social change. By developing students' awareness of human interconnection, social inequality, and cultural diversity, Comparative Ethnic Studies promotes human interactions for social justice in the 21st century.

### Preparation

High school students should take American ethnic literature, social studies, and history.

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: 16

### Required Courses

ES 105	(3)	Introduction to US Ethnic Studies.
ES 308	(3)	Multi-Ethnic Resistance in the US
ES 326	(4)	Media & the Politics of Representation

Complete 6 units from the following:

CRGS 330	(3)	Women of Color Feminisms
ES 245	(3)	Hip Hop & the Black Experience
ES 304	(3)	Migrations & Mosaics
ES 305	(3)	African American Cultural History
ES 306	(3)	World Regions Cultural Studies
ES 314	(3)	Chicano Culture & Society in America
ES 325	(3)	From Civil Rights to Black Power
ES 336/WS 336/ENGL 336	(4)	American Ethnic Literature
ES 480	(1-4)	Selected Topics in ES

or other advisor approved course.

# FAMILY STUDIES MINOR

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## Minor in Family Studies

### Department Chair

Dr. Kishan Lara-Cooper

### Department of Child Development

Harry Griffith Hall 229

707-826-3471

childdev.humboldt.edu/minors

### The Program

Examine the family from multiple perspectives, giving special attention to changes in the American family over time and across ethnic and socioeconomic groups. Look at various methods for working with families and helping the family remain strong and healthy.

Knowledge about families is excellent background for work in social services, teaching, community development, community health, counseling, family law, public administration, or public policy.

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: 21

### Family Foundation

CD 251 (3) Children, Families & Their Communities

### Growth & Development Foundation

CD 350 (3) Perspectives: Life-Span Development

### Contemporary Family Dynamics

Complete a minimum of one course from:

CD 352 (3) Parent/Child Relationships [DCG-d]

PSYC 303 (3) Family Relations in Contemporary Society

SOC 306 (3) The Changing Family

### Cultural Variations

Complete a minimum of one course from:

AIE 335 (3) Social Cultural Considerations [DCG-d]\*

CD 467 (3) Working with Culturally Diverse Families [DCG-d]

COMM 222 (4) Intercultural Communication [DCG-d]

### Interacting with Families

Complete a minimum of one course from:

AIE 335 (3) Social Cultural Considerations [DCG-d]\*

CD 366 (3) Exceptional Children & Their Families\*

## Special Family Topics

Complete a minimum of 3 units from:

CD 362 (3) Children & Stress

CD 366 (3) Exceptional Children & Their Families\*

SW 431 (4) Juvenile Delinquency

SW 480 (.5-4) Special Topics (topic must be related to the family. Requires prior permission to count toward minor)

## Advocacy & Public Policy

CD 479 (3) Policy Analysis & Advocacy  
[Completion of other courses in minor required]



\* Course may not be used for more than one topic section.

# FILM

## Bachelor of Arts degree with a major in Film

### Minor in Film

#### Department Chair / Program Leader

Ann Alter, MFA  
Ann.Alter@humboldt.edu

#### Department of Theatre, Film & Dance

Theatre Arts Building 20  
707-826-3566  
film.humboldt.edu

### The Program

Students completing this program will have demonstrated:

- fundamental aesthetically-driven technical skills essential to 16mm filmmaking and/or digital media production
- development of films grounded in ethical storytelling and production processes
- application of creative problem solving and collaborative practices in their work
- integration of film vocabulary and/or analyze global film studies
- synthesis of knowledge with skills through the creation and completion of short films.

Steeped within the traditions of independent filmmaking, students learn the fundamentals of fiction and non-fiction film through a production-based, hands-on program. Our curriculum integrates creative exploration and technical skill development with film theory and history, grounded in a liberal arts education that fosters ethical storytellers who artfully explore the human condition in creative ways.

In our foundational Filmmaking I-IV core classes students will develop and master the fundamentals of film and digital production while learning industry protocols, practices and technical workflows. Creating impactful, cinematic stories through the craft and artistry of directing, writing, cinematography, and editing are key components of these courses. We offer advanced electives in other areas such as screenwriting, cinematography and directing.

Students have an opportunity to focus on the environment, social change, natural history and science filmmaking. Humboldt County is home to prime location filming: beaches, redwood forests, Victorian villages, rural farmland, coastal port towns and more.

All aspects of the program stress professionalism with an emphasis on quality as well as collaborative and creative processes. Small class size allows for robust participation and discussion by all students and indi-

vidualized instruction with faculty who are working professional filmmakers.

Students are encouraged to develop films that will identify and reach underserved audiences that exist outside mainstream media and commercial venues. HSU Film educates students to be an independent voice that is part of the change advocated by HSU's mission statement.

The way audiences consume media and the way filmmakers make and deliver it is constantly evolving. HSU Film prepares graduates who will be flexible in this ever-shifting environment by stressing solid story development, combined with creative and technical agility. Graduates find jobs as cinematographers, videographers, camera assistants, film editors, sound mixers, boom operators, grips, gaffers, associate producers, line producers, documentary directors, media consultants, screenwriters, script supervisors, production designers, production coordinators, art directors and production assistants.

Students are encouraged to have a minor area of study that complements their film interests, expands their skill set, enhances the depth of their culminating reel (i.e. portfolio), and advances their post-education professional employment opportunities. Interdisciplinary studies foster better critical thinkers and more active participants in social change. The combination of a science or social science minor and a film major empowers students to better disseminate their research to new and underserved audiences, which in turn positively impacts society.

### REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

#### Unit Requirements

**Total units in the major: 49**

**Total units required for the degree: 120**

#### Special Grade Requirement

A minimum grade of C- is required for all courses in the major.

#### Required Courses [30 units]

TA 104	(4) Story Through Word & Image
FILM 305	(3) Art of Film: Beginning to 1950s, <b>and</b>
FILM 317	(1) Art of Film Discussion: Pre 1950s

FILM 306	(3) Art of Film: 1950s to the Present, <b>and</b>
FILM 318	(1) Art of Film Discussion: Post 1950s
FILM 315	(4) Filmmaking I
FILM 375	(4) Filmmaking II
FILM 415	(4) Filmmaking III
FILM 475	(4) Filmmaking IV
TA 494	(2) Senior Seminar

#### Art Requirement [3 units]

Complete one course from the following:  
ART 104B-N (3) Topics in Art History  
ART 250 (3) Darkroom Photography  
ART 251 (3) Photography I

#### Film Electives [16 units]

Complete two courses from the following:

FILM 350	(4) Writing for Film
FILM 425	(4) Film Directing & Production Processes
FILM 455	(4) Grant Writing, <b>or</b>
FILM 455S	(4) Grant Writing
FILM 465	(4) Film Seminar

Complete two courses from the following:

FILM 360	(4) Science, Environment & Natural History Digital Production
FILM 362	(4) Social Change Digital Production
FILM 378	(1-4) Film/Digital Production Workshop
FILM 478	(1-4) Advanced Film/Digital Production Workshop

### REQUIREMENTS FOR THE MINOR

**Total units required for the minor: 20**

#### Required Courses

FILM 315	(4) Filmmaking I
FILM 375	(4) Filmmaking II

Complete two of the following [8 units]:

FILM 305	(3) Art of Film: Beginning to 1950s, <b>and</b>
FILM 317	(1) Art of Film Discussion: Pre 1950s
FILM 306	(3) Art of Film: 1950s to the Present, <b>and</b>
FILM 318	(1) Art of Film Discussion: Post 1950s
FILM 465	(4) Film Seminar

Complete one of the following:

FILM 360	(4) Science, Environment & Natural History Digital Production
FILM 362	(4) Social Change Digital Production

# FISHERIES BIOLOGY

**Bachelor of Science degree with a major in Fisheries Biology** — concentrations available in Aquaculture, Freshwater Fisheries and Marine Fisheries

## Minor in Fisheries Biology

See *Natural Resources* for details on the Master of Science degree.

## Department Chair

Andrew Kinzinger Ph.D.

## Department of Fisheries Biology

Fisheries & Wildlife Building 220

707-826-3953

[humboldt.edu/fisheries](http://humboldt.edu/fisheries)

## The Program

Students completing this program will have demonstrated the ability to:

- provide a description of how physical and biological factors of aquatic ecosystems determine the distribution and abundance of fish populations and pose testable hypotheses and experiments to identify specific factors that constrain population growth or distribution
- select and implement basic data collection protocols appropriate for characterizing status of fish communities, including assessment of species composition, abundance, and population structure (age, size, genetic)
- convey scientific concepts in written, oral, and visual communication formats, including following basic guidelines for format and structure of scientific reports, papers, or presentations
- describe and explain how fisheries management problems can be expressed as quantitative models, produce useful tabular and graphic summaries of quantitative data, and conduct simple tests of statistical hypotheses
- describe the scientific, legal, political, and social factors that determine goals for fisheries management and conservation, and to identify appropriate management strategies that can be used to achieve these goals
- critically evaluate their own fisheries work as well as fisheries data, information, and conclusions reported in published peer-reviewed literature, unpublished technical reports, and popular media.

The overall goal of the Fisheries Biology Program is to provide students with the knowledge, skills, and motivation required to ensure the conservation of fish and aquatic resources that are faced with increasing

societal demands and increasing loss of habitat. We stress development of a field-based understanding of the relationships between freshwater and marine fishes and the habitats upon which they depend, but our program is broad enough to provide specialized training in fish population dynamics and fishery management, restoration ecology, systematics, marine and freshwater aquaculture, fish health management, water pollution biology, and wastewater utilization. Each of these areas has its own important role to play in the overall conservation of fish resources.

Fisheries Biology students have on-campus facilities for hands-on studies: a recirculating freshwater fish hatchery, rearing ponds, spawning pens, and modern laboratories for study of fish genetics, pathology, taxonomy, ecology, and age and growth. Also on campus is the California Cooperative Fish & Wildlife Research Unit, supported by both state and federal government, and a large fish museum collection.

Off campus, students take classes and carry out research projects at the university's marine laboratory in Trinidad, about 12 miles north of campus. A 90' university-owned ocean-going vessel, docked in Eureka, is available for classes and for faculty and graduate student research in nearshore ocean waters. Numerous small boats and a specialized electrofishing boat are available for instruction and research in local bays, lagoons and estuaries.

Our graduates may qualify for certification by the American Fisheries Society as Associate Fisheries Scientists, and many continue their education after HSU, receiving MS or Ph.D. degrees in fisheries biology or other closely related fields.

**Possible careers:** aquarium curator, aquatic biologist, biological technician, environmental specialist, fish culturist, fish health manager, fisheries biologist, fisheries consultant, fisheries geneticist, fisheries modeler, fisheries statistician, hydrologist, museum curator, reservoir manager, restoration ecologist, sewage treatment water analyst, water quality advisor.

## Preparation

We recommend that high school students interested in fisheries biology take as many challenging biology, chemistry, mathematics, and computer classes as possible, and that they also stress oral and written communications.

## REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82. "The Master's Degree" section of the catalog, pp. 83-84.

The Upper Division Area B General Education requirement is met by the coursework within the Bachelor of Science degree for either concentration in the Fisheries Biology major:

## Unit Requirements

<b>Core units:</b>	<b>49-53</b>
<b>Concentration units:</b>	<b>22-24</b>
<b>Total units in the major:</b>	<b>71-77</b>
<b>Total units required for the degree:</b>	<b>120</b>

## Core Courses (49-53 units)

The following core courses are required for all fisheries biology majors.

### Lower Division

BIOL 105	(4) Principles of Biology
CHEM 107	(4) Fundamentals of Chemistry
FISH 260	(3) Fish Conservation & Mgmt.
STAT 109	(4) Introductory Biostatistics
ZOOL 110	(4) Introductory Zoology

Complete one mathematics option below.

MATH 101	(3) College Algebra <b>and</b>
MATH 101T	(3) Trigonometry

MATH 101i	(3) College Algebra with Integrated Support <b>and</b>
MATH 101T	(3) Trigonometry

MATH 102	(4) Algebra & Elementary Functions
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MATH 105	(3) Calculus for the Biological Sciences & Natural Resources
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Complete one physical science option below.

CHEM 128	(3) Introduction to Organic Chemistry
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GEOL 109	(4) General Geology
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PHYX 106	(4) College Physics: Mechanics & Heat
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OCN 109	(3) General Oceanography <b>and</b>
OCN 109L	(1) General Oceanography Lab

### Upper Division

FISH 310	(4) Ichthyology
FISH 311	(3) Fish Physiology
FISH 314	(3) Fishery Science Communication

FISH 380	(3) Techniques in Fishery Biology
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FISH 460	(3) Adv. Fish Conservation & Management
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FISH 474 (4) Conservation Genetics of Fish and Wildlife

*Complete one quantitative course from:*

FISH 358 (4) Fisheries Data Analysis  
FISH 458/FISH 558 (4) Fish Population Dynamics

### Concentrations (22-24 units)

*Complete one of the following concentrations to fulfill the requirements of the major:*

#### Aquaculture Concentration (22 units)

FISH 370 (4) Aquaculture  
FISH 375 (3) Mariculture  
FISH 471 (3) Fish Diseases  
FISH 472 (3) Advanced Aquaculture

#### Approved Electives\*

*Complete 9 units, including at least two courses from the following list. [General Education classes may not be used as approved electives].*

FISH 335 (3) US & World Fisheries  
FISH 410/FISH 510 (3) Topics in Advanced Ichthyology  
FISH 434 (4) Ecology of Freshwater Fish  
FISH 435 (4) Ecology of Marine Fish  
FISH 458/FISH 558 (4) Fish Population Dynamics

#### Freshwater Fisheries Concentration (24 units)

FISH 320/FISH 320L (3/1) Limnology  
FISH 370 (4) Aquaculture  
FISH 434 (4) Ecology of Freshwater Fish  
FISH 476 (3) Ecology of Running Waters

#### Approved Electives\*

*Complete 9 units, including at least two courses from the following list. [General Education classes may not be used as approved electives].*

FISH 335 (3) US & World Fisheries  
FISH 375 (3) Mariculture  
FISH 410/FISH 510 (3) Topics in Advanced Ichthyology  
FISH 435 (4) Ecology of Marine Fish  
FISH 458/FISH 558 (4) Fish Population Dynamics  
FISH 471 (3) Fish Diseases  
FISH 571 (3) Advanced Fish Disease & Pathology

**One** other course approved by your advisor.

### Marine Fisheries Concentration (24 units)

FISH 335 (3) US & World Fisheries  
FISH 375 (3) Mariculture  
FISH 435 (4) Ecology of Marine Fish  
ZOO 314 (5) Invertebrate Zoology

#### Approved Electives\*

*Complete 9 units, including at least two courses from the following list. [General Education classes may not be used as approved electives].*

FISH 370 (4) Aquaculture  
FISH 410/FISH 510 (3) Topics in Advanced Ichthyology  
FISH 434 (4) Ecology of Freshwater Fish  
FISH 458/FISH 558 (4) Fish Population Dynamics  
FISH 471 (3) Fish Diseases  
FISH 571 (3) Advanced Fish Disease & Pathology

**One** other course approved by your advisor.

### REQUIREMENTS FOR THE MINOR

#### Unit Requirement: 14-15

#### Required Courses

FISH 310 (4) Ichthyology  
FISH 460 (3) Adv. Fish Conservation & Management

Complete one of the following pathways:

FISH 320 (3) Limnology **and**  
FISH 320L (1) Limnology Practicum, **or**  
FISH 476 (3) Ecology of Running Waters

FISH 434 (4) Ecology of Freshwater Fish

**or**

OCN 109 (3) General Oceanography **and**  
OCN 109L (1) General Oceanography Lab  
FISH 435 (4) Ecology of Marine Fish



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\* Alternative sets of approved electives may be approved under exceptional circumstances. Discuss with your advisor.

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# FORESTRY

**Bachelor of Science degree with a major in Forestry** — concentrations in: Forest Hydrology, Forest Operations, Forest Restoration, Forest Soils, Tribal Forestry, and Wildland Fire Management

## Minor in Fire Ecology

## Minor in Forestry

## Minor in Watershed Management

See *Natural Resources* for details on the Master of Science degree.

## Department Chair

David F. Greene Ph.D.

## Department of Forestry and Wildland Resources

Forestry Building 205  
707-826-3935  
fwr.humboldt.edu

## The Program

Students completing this program will have demonstrated:

- understanding of taxonomy, autecology of trees, plant and wood identification; physiology of trees; ecological concepts, ecosystem processes, structure and function; soil formation, classification, composition and properties; silvicultural principles, stand structure and composition; growth and quality of forests and forest health; fire ecology and use of fire; entomology and pathology; wildlife and fish ecology; plant, soil, water interactions, watershed processes, land measurement, mapping, photogrammetry, remote sensing; sampling theory and methods, statistical literacy; measurement of trees, forests, and forest products; wildlife habitat assessment; measurement of water yields and quality; assessment of non-timber forest values; integrated forest management, multiple-use principles; stand scale management; system and landscape management; forest engineering and road design; harvesting systems; utilization; policy development, sociological influences; administration, environmental regulation; land and resource planning; budgeting, finance, personnel management, cost, and economics
- capable practice of critical thinking; writing; quantitative thinking; public speaking, debate and persuasion; leadership; group cooperation; conflict resolution; time management; professional integration; independent life-long learning; computer literacy and skills
- the attributes of adaptability; integrity; open-mindedness; professional decorum.

Humboldt State University is located in the heart of the coast redwood forest. This environment provides outdoor classrooms for more than half of the forestry courses. Field trips illustrate lecture concepts and teach field techniques.

Excellent on-campus laboratories complement the outdoor lab. Students have access to the college forest, the Schatz Tree Farm, public and private forest lands, and various production centers. Because Humboldt County also has a large forest products industry, Humboldt State is an excellent place to study the resolution of environmental issues with economic concerns.

Students and faculty interact with professional forest managers and researchers of the region both in the classroom and in the field.

Forestry is an incorporative discipline, drawing from the biological, physical, social, and managerial sciences. The curriculum aids in understanding the biological complexities of the forest and the interactions between the forest and social and economic demands.

The program provides sufficient background and depth of education to give a sound basis for professional growth within a broad range of forestry-related careers. Our graduates often start as forest rangers, park rangers, fire fighters, timber cruisers, or surveyors. Some hold staff positions in the federal and state agencies, forest products industry, or with environmental organizations. Graduates go on to build careers in: wildland fire management, forest management, forest protection, park management, watershed management, forest biology, forest engineering, industrial management, resource planning, forest restoration, and research and education.

Visit our webpage at [fwr.humboldt.edu](http://fwr.humboldt.edu).

## Preparation

In high school, take a broad background. Biological/physical sciences, mathematics, social sciences, and the arts are helpful.

## REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82. "The Master's Degree" on page 83.*

## Unit Requirements

**Core units** 64  
**Concentration units:** 28-31  
**Total units in the major:** 92-95  
**Total units required for the degree:** 120

## Special Grade Requirement

Students must complete all courses in the major with a C- or better.

## Core Courses (64 units)

*The following core courses are required for all forestry majors.*

### Lower Division

*Complete at least one course in a basic biological science that meets general education requirements and is comparable to:*

BOT 105 (4) General Botany

*Complete at least one course in a basic physical science that meets general education requirements and is comparable to:*

CHEM 107 (4) Fundamentals of Chemistry

*Complete the following:*

ESM 105 (3) Natural Resource Conservation

FOR 130 (3) Dendrology

FOR 131 (3) Forest Ecology

FOR 210 (4) Forest Measurements and Biometry

FOR 222 (2) Forest Health and Protection

FOR 223 (2) Intro to Wildland Fire

FOR 250 (3) Intro to Forest Operations

GSP 101 (2) Geospatial Concepts, **and**

GSP 101L (1) Geospatial Concepts Lab

SOIL 260 (3) Intro to Soil Science

STAT 108 (3) Elementary Statistics, **or**

STAT 108i (3) Elementary Statistics with Integrated Support [Coreq: STAT 8]

*Take all lower division courses before beginning upper division work.*

### Upper Division

ESM 305 (3) Environmental Conflict Resolution

FOR 311 (4) Forest Mensuration & Growth

FOR 331 (3) Silvics — Foundation of Silviculture

FOR 365 (3) Forest Financial Administration

FOR 432 (4) Silviculture

FOR 359 (3) CA & US Forest & Wildland Policy

- FOR 479 (3) Forestry Capstone  
 WSHD 310 (4) Hydrology & Watershed Management

### Concentrations

Complete **one** concentration to fulfill the requirements of the major:

#### Forest Hydrology Concentration (29 units)

See core courses.

##### Lower Division

- GEOL 109 (4) General Geology  
 GSP 216 (3) Intro to Remote Sensing  
 GSP 270 (3) Geographic Information Science (GIS)  
 MATH 105 (3) Calculus for the Biological Sciences & Natural Resources  
 PHYX 106 (4) College Physics: Mechanics & Heat, **or**  
 PHYX 109 (4) General Physics A: Mechanics

##### Upper Division

- FOR 471 (3) Forest Administration & Ethics  
 GEOL 306 (3) General Geomorphology  
 SOIL 467 (3) Soil Physics  
 WSHD 333 (3) Wildland Water Quality, **or**  
 WSHD 424 (3) Watershed Hydrology

This program meets the qualifications for "Forester" and for "Hydrologist" in federal employment.

#### Forest Operations Concentration (29 units)

See core courses.

##### Lower Division

- GSP 216 (3) Intro to Remote Sensing  
 GSP 270 (3) Geographic Information Science (GIS)

##### Upper Division

- FISH 300 (3) Intro to Fishery Biology, **or**  
 RRS 306 (3) Wildland Resource Principles  
 FOR 350 (3) Forest Harvesting Systems  
 FOR 353 (3) Forest Road Location & Design  
 FOR 450 (3) Harvesting Systems Design & Cost Analysis  
 FOR 471 (3) Forest Administration & Ethics  
 FOR 475 (3) Forest Management Decision Making  
 FOR 476 (2) Advanced Forest Management

Complete one of the following courses.

- FOR 423 (3) Wildland Fuels Management  
 FOR 431 (3) Forest Restoration  
 WSHD 458 (3) Climate Change & Land Use

This program meets the qualifications for "Forester" in federal employment.

#### Forest Restoration Concentration (29 units)

See core courses.

##### Lower Division

- GSP 216 (3) Intro to Remote Sensing  
 GSP 270 (3) Geographic Information Science (GIS)  
 FOR 321 (3) Fire Ecology

##### Upper Division

- FISH 300 (3) Intro to Fishery Biology, **or**  
 RRS 306 (3) Wildland Resource Principles  
 FOR 430 (3) Forest Ecosystems  
 FOR 471 (3) Forest Administration & Ethics  
 FOR 475 (3) Forest Management Decision Making  
 FOR 476 (2) Advanced Forest Management

Complete two of the following courses.

- BOT 394 (3) Forest Pathology  
 ESM 425 (3) Environmental Impact Assessment  
 FOR 350 (3) Forest Harvesting Systems  
 FOR 353 (3) Forest Road Location & Design  
 FOR 374 (3) Wilderness Area Management  
 FOR 423 (3) Wildland Fuels Management  
 FOR 431 (3) Forest Restoration  
 GSP 370 (3) Intermediate Geographic Information Science (GIS)  
 RRS 430 (3) Wildland Restoration & Development  
 SOIL 468 (3) Intro to Agroforestry  
 WSHD 424 (3) Watershed Hydrology  
 WSHD 458 (3) Climate Change & Land Use

This program meets the qualifications for "Forester" in federal employment.

#### Forest Soils Concentration (28 units)

See core courses.

##### Lower Division

- GEOL 109 (4) General Geology  
 GSP 216 (3) Intro to Remote Sensing  
 GSP 270 (3) Geographic Information Science (GIS)

#### Upper Division

- FISH 300 (3) Intro to Fishery Biology, **or**  
 RRS 306 (3) Wildland Resource Principles  
 FOR 471 (3) Forest Administration & Ethics  
 SOIL 360 (3) Origin & Classification of Soils  
 SOIL 460 (3) Wildland Soil Management & Erosion Control.

Complete two of the following courses.

- SOIL 363 (3) Wetland Soils  
 SOIL 462 (3) Soil Fertility  
 SOIL 465 (3) Soil Microbiology  
 SOIL 467 (3) Soil Physics

This program meets the qualifications for "Forester," "Soil Scientist," and "Soil Conservationist" in federal employment.

#### Tribal Forestry Concentration (31 units)

See core courses.

##### Lower Division

- ANTH 105 (3) Archaeology and World Prehistory  
 NAS 104 (3) Introduction to Native American Studies  
 NAS 200 (3) Indigenous Peoples in US History  
 GSP 216 (3) Intro to Remote Sensing, **or**  
 GSP 270 (3) Geographic Information Science (GIS)

##### Upper Division

- FISH 300 (3) Intro to Fishery Biology  
 FOR 321 (3) Fire Ecology  
 NAS 331 (3) Indigenous Natural Resource Management Practices  
 NAS 361 (3) Tribal Sovereignty, Tribal Citizens, **or**  
 NAS 362 (3) Tribal Governance & Leadership  
 NAS 364 (4) Federal Indian Law I, **or**  
 NAS 365 (4) Federal Indian Law II  
 NAS 468 (3) Tribal Justice Systems, **or**  
 NAS 325 (3) Native Tribes of California

This program meets the qualifications for "Forester" in federal employment.

#### Wildland Fire Management Concentration (29 units)

See core courses.

##### Lower Division

- GSP 216 (3) Intro to Remote Sensing  
 GSP 270 (3) Geographic Information Science (GIS)

### Upper Division

- FISH 300 (3) Intro to Fishery Biology, **or**  
RRS 306 (3) Wildland Resource Principles
- FOR 321 (3) Fire Ecology  
FOR 323 (3) Wildland Fire Behavior & Use  
FOR 423 (3) Wildland Fuels Management  
FOR 424 (3) Wildland Fire Internship  
FOR 471 (3) Forest Administration & Ethics  
FOR 476 (2) Advanced Forest Management

### Watershed Management Minor

See Watershed Management



*Complete one of the following courses.*

- FOR 431 (3) Forest Restoration  
FOR 475 (3) Forest Management Decision Making  
GSP 370 (3) Intermediate Geographic Information Science (GIS)  
RRS 370 (3) Wildland Ecology Principles  
WHSD 458 (3) Climate Change & Land Use

This program meets the qualifications for "Forester" in federal employment.

### REQUIREMENTS FOR THE MINORS

#### Fire Ecology Minor

Total units required for the minor: **15**

#### Required Courses

- FOR 130 (3) Dendrology, **or**  
an approved course in  
plant taxonomy
- FOR 131 (3) Forest Ecology, **or**  
an approved course in  
ecology
- FOR 321 (3) Fire Ecology  
FOR 323 (3) Wildland Fire Behavior & Use  
FOR 423 (3) Wildland Fuels Management

#### Forestry Minor

Total units required for the minor: **16**

#### Required courses

- FOR 130 (3) Dendrology  
FOR 131 (3) Forest Ecology  
FOR 210 (4) Forest Measurements  
and Biometry  
FOR 315 (3) Forest Management

*Complete one of the following four courses.*

- FOR 302 (3) Forest Ecosystems & People  
FOR 321 (3) Fire Ecology  
FOR 374 (3) Wilderness Area Mgmt.  
FOR 431 (3) Forest Restoration

# FRENCH & FRANCOPHONE STUDIES

## **Bachelor of Arts degree with a major in French & Francophone Studies**

### **Minor in French & Francophone Studies**

#### **Department Chair**

Joseph Diémé, Ph.D.

#### **Program Director**

Joseph Diémé, Ph.D.

### **Department of World Languages & Cultures**

Behavioral & Social Sciences 206  
707-826-3226, fax 826-4320  
wlc.humboldt.edu

### **The Program**

Students completing this program will have demonstrated:

- analysis, acknowledgement, and respect of cultural expressions and worldviews of others
- the capacity to be responsible, productive and compassionate global citizens in a fragile world
- cultural and linguistic competency
- the ability to collaboratively formulate and solve problems
- independent and critical thinking.

The French and Francophone Studies major emphasizes the use of the French language through a curriculum that closely relates the classroom to the Francophone world; that is, everywhere that French is spoken. Creating a personal environment, French-speaking faculty and students participate in film, creative writing, and cultural workshops and retreats. In small classroom settings students study the literature and culture of France and expand their horizons to cultures of such Francophone regions as West Africa, North Africa, Quebec, Louisiana, the Caribbean, and Vietnam. Visiting literary critics, artists, consular officials, and guests from various regions of the French-speaking world complement classroom studies. Videos, films, and computer software are integral to the program on the HSU campus.

The program prepares students to read, understand, speak, and write the French language with advanced proficiency and to understand the rich fabric of Francophone cultures throughout the world. Courses focus on different themes each year, allowing students to gain an in-depth understanding of issues particularly relevant to their academic goals and future careers.

Students in the major are required to study abroad in France or in a Francophone country. There are many outstanding opportunities to complete this requirement in a meaningful way.

Throughout the world, French is one of the most significant languages of diplomacy, communication, and culture. At the same time, our French program recognizes that in the Francophone world, other languages and indigenous cultures have valuable alternative perspectives important for our students, as future national and global leaders, to understand and consider. For this reason, majors are also encouraged to study a second language spoken in a Francophone region, such as Arabic, Wolof, Pulaar, or Creole.

**Career possibilities.** French and Francophone studies majors can work nationally and internationally in the following areas: non-governmental organization official or employee, interpreter, teacher, ESL teacher, foreign service diplomat, United Nations employee, foreign correspondent, travel agent, airline employee, international business person or banker, literary translator, Francophone country tour guide, museum curator (in conjunction with art history studies), import/export business owner. In the new global economy, many other careers also demand the intercultural expertise acquired by French and Francophone studies majors.

The program prepares students to take advantage of many opportunities for volunteering in international organizations such as the Peace Corps.

**Special Scholarship and Awards.** The Department of World Languages and Cultures has three permanent scholarships and awards:

- The Benavides-Garb Family International Travel Award
- The Joe and Helen Bottino Memorial Travel Award
- The Budig-Markin Family Francophone African Studies Award
- The Frank B. Wood Scholarship

All language students are encouraged to apply for these important scholarships and awards to enhance language studies with an international residence. See the department web page for further information.

### **Preparation**

All students, with or without any previous French language background, are welcome to the program. Students without previous French language background will have the opportunity to acquire the language from the beginning, following the language course sequence: FREN 105, FREN 106, FREN 107, and FREN 207. Students with prior language background will have a head start on the major. Discuss your particular level with a faculty advisor.

### **REQUIREMENTS FOR THE MAJOR**

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

**NOTE:** All courses are taught in the target language except as noted.

### **Unit Requirements**

**Total units in the major: 42**  
*(includes required courses, major electives and study abroad)*

**Total units required for the degree: 120**

### **Required Courses (24-28 units)**

#### **Lower Division**

FREN 107 (4) French Level III  
FREN 207 (4) French IV & Intro to Francophone Studies

#### **Upper Division**

FREN 310 (2-4) Nouvelles en français: Variable Topics  
FREN 311 (4) French V & Stories from the Francophone World  
FREN 312 (4) French VI & (R)evolution in Modern French Lit (Rep)  
FREN 314 (4) Cultural History Topics in Early French Masterpieces (Rep)  
FREN 340 (2-4) Topics in Francophone Culture (Rep)

### **Major Elective Courses (14-18 units)**

*Complete as many elective courses as needed to meet the minimum 42 units required for the major:*

FREN 280 (2-3) French Conversation & Retreat (Rep)

\* Course taught in English.

\*\* Course taught in French or English.

(Rep) Course may be repeated for the major.

FREN 300\* (3-4) African Storytelling  
 FREN 306\*/GERM, SPAN, WS 306\* (3)  
 Sex, Class & Culture:  
 Gender & Ethnic Issues in  
 International Short Stories  
 FREN 341\*\* (2) Current Event Topics in the  
 Francophone World (Rep)  
 FREN 370 (1) French Weekend Retreat  
 FREN 390\* (1-2) Topics in Cinema of the  
 Francophone World (Rep)  
 FREN 420 (1-3) French Peer Tutoring  
 FREN 480 (1-4) Special Topics  
 FREN 492 (3) Senior Honors Thesis or  
 Project  
 FREN 499 (1-4) Directed Study

#### Required Study Abroad

Complete an approved academic semester program abroad in France or in a Francophone country, equivalent to at least 12 units and normally lasting at least 10 weeks. Students are encouraged to efficiently plan their academic residency abroad to complete major and general education requirements. Program must be selected in consultation with and approved by the major advisor. Students are expected to complete their final semester in residence at Humboldt State University.

Students may study abroad for one summer semester, a regular semester, or one academic year with such programs as the HSU faculty-led programs, the HSU Bilateral Exchange Program at the Université Paul Valéry Montpellier, France; CSU International Programs (IP) study abroad in Aix-en-Provence or Paris; or a semester program in Senegal. Study Abroad languages may be French, Arabic, Wolof, Pulaar, or another Francophone African or Caribbean language.

Cost of residency abroad varies according to program and world region. Be sure to understand the costs involved and plan ahead. Consult with the HSU Center for International Programs.

Under exceptional circumstances the residency abroad requirement can be waived by the major advisor.

#### REQUIREMENTS FOR THE MINOR

The minor emphasizes French language proficiency as well as Francophone cultural studies appropriate to the individual student's academic and career objectives.

**Total units required for the minor: 20**

#### Required Courses (16 units)

FREN 107 (4) French Level III  
 FREN 207 (4) French IV & Intro to  
 Francophone Studies  
 FREN 311 (4) French V & Stories from  
 the Francophone World  
 FREN 312 (4) French VI and (R)evolution  
 in Modern French  
 Literature

#### Upper Division Elective Courses (4 units)

*Complete an additional 4 units of upper-division French & Francophone Studies coursework selected with the approval of the minor advisor:*

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# GEOGRAPHY

## Bachelor of Arts degree with a major in Geography

### Minor in Geography

### Department Chair

Matthew Derrick, Ph.D.

### Department of Geography, Environment & Spatial Analysis

Founders Hall 109

707-826-3946

[humboldt.edu/geography](http://humboldt.edu/geography)

### The Program

Students completing this program will have demonstrated the ability to:

- collect data; know where to acquire such and what technology should be employed
- layout and design best geographics
- develop and apply information literacy
- understand causes and implications of spatial interactions and movement patterns
- demonstrate skills and competencies of geographic traditions
- analyze, synthesize, and interpret spatial information
- apply geographic thinking in real-world contexts
- analyze and/or appraise real-world societal issues.

We offer a quality undergraduate program incorporating a wide range of courses in human and physical geography, as well as cartography and geospatial techniques. Students obtain a strong geographic foundation through a sequence of introductory classes, along with a skills-based methodology course and research lab. Geographic concepts, ideas, and skills are developed and mastered in upper-division regional, systematic, and in-depth geography courses. Our majors further develop and demonstrate geographic mastery through a research-based senior capstone. While our program is designed to ensure breadth in geographic education, students are also encouraged to develop depth by specializing in one of the department's three emphasis areas:

- The Human World
- The Physical Environment
- Geospatial Systems

The department upholds a strong tradition of field study, including expeditions to the Tibetan Plateau, the Cascades, the Sierra Nevada, and other landscapes of the American west, as well as linkages to overseas programs in China, Europe, and Latin America.

### Preparation

In high school take history, government, mathematics, science, and a foreign language.

### REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

### Unit Requirements

Total required for major: **41-46**

Total units required for the degree: **120**

### Special Grade Requirement

Students must earn a minimum grade of C- in all required courses for the major.

### Geographic Foundation (14 units)

The following six foundation courses are required:

GEOG 105	(3)	Human Geography
GEOG 106	(3)	Physical Geography
GEOG 106L	(1)	Physical Geography Lab
GSP 101	(2)	Geospatial Concepts
GSP 101L	(1)	Geospatial Concepts Lab
GEOG 310L	(1)	Geographic Research Lab

Select one methodology course:

GEOG 311	(3)	Geographic Research & Writing, <b>or</b>
ESM 230†	(3)	Environmental Methods* [Prereq: STAT 109 (4)]

### Regional Synthesis (3-4 units)

Select one of the regional courses below:

GEOG 309	(3)	The Silk Road
GEOG 319	(4)	Emergence of the Modern Middle East
GEOG 322	(3)	California
GEOG 332	(3)	Geog. of the Mediterranean
GEOG 335	(3)	Geog. of the Middle East
GEOG 344	(3)	South America
GEOG 376	(3)	Tibet and the Himalaya
GEOG 472	(3)	Topics in Reg. Geography

### Systematic Geography (18-22 units)

Six systematic geography courses are required, including one course from each of the systematic emphasis areas (the Human World, the Physical Environment, Geospatial

\* Recommended for students who wish to specialize in the physical environment.

† Course requires a prerequisite that is not required elsewhere in the major.

Systems). Students are encouraged to specialize in one area of systematic geography by taking at least two of the remaining three required systematic courses in one emphasis area.

### The Human World

GEOG 300	(3)	Global Awareness
GEOG 301	(3)	International Environmental Issues & Globalization
GEOG 304	(3)	Migrations & Mosaics
GEOG 360	(3)	Geography of the World Economy
GEOG 363	(3)	Political Geography
GEOG 365	(4)	Political Ecology
GEOG 470	(3)	Topics in Geography for Teachers
GEOG 471	(3)	Topics in Human Geography

### The Physical Environment

GEOG 302	(3)	Global Ecology and Biogeography
GEOG 352	(3)	Weather, Climate, and Natural Hazards
GEOG 353	(3)	Mountain Geography
GEOG 357	(3)	Climate Change, Ecosystems, and People
GEOG 473	(3)	Topics in Physical Geography
GEOL 306	(3)	General Geomorphology
WSHD 310	(4)	Hydrology and Watershed Management

### Geospatial Systems

GSP 216	(3)	Intro to Remote Sensing
GSP 270	(3)	Geographic Information Science (GIS)
GSP 316	(4)	Cartography
GSP 318	(3)	Introduction to Geospatial Programming
GSP 326	(3)	Intermediate Remote Sensing
GSP 370	(3)	Intermediate GIS
GSP 416	(4)	Advanced Cartography Design Seminar

### Depth Experience (2 units)

Select a minimum of two upper division depth experience courses:

GEOG 300M	(1)	Global Awareness D.E.
GEOG 302M	(1)	Global Ecology and Biogeography D.E.
GEOG 304M	(1)	Migrations & Mosaics D.E.
GEOG 322M	(1)	California D.E.
GEOG 332M	(1)	Geog.: Mediterranean D.E.
GEOG 344M	(1)	South America D.E.
GEOG 352M	(1)	Weather, Climate, and Natural Hazards D.E.

GEOG 353M (1) Mountain Geography D. E.  
GEOG 357M (1) Climate Change, Eco-  
systems, and People D.E.  
GEOG 360M (1) Geography of the World  
Economy D.E.  
GEOG 361M (1) Settlement Geography D. E.  
GEOG 363M (1) Political Geography D.E.  
GEOG 471M (1) Topics in Human  
Geography D. E.  
GEOG 472M (1) Topics in Regional  
Geography D. E.  
GEOG 473M (1) Topics in Physical  
Geography D. E.

**Senior Capstone (4 units)**

*The following capstone course is required.*

GEOG 411 (4) Senior Field Research

**REQUIREMENTS FOR THE MINOR**

Total units required for the minor: 15

**Special Grade Requirement**

Students must earn a minimum grade of C-  
in all required courses for the minor.

**Geographic Foundations (6 units)**

*Complete two of the following three options  
within the geographic foundation.*

GSP 101 (2) Geospatial Concepts **and**

GSP 101L (1) Geospatial Concepts Lab

GEOG 105 (3) Human Geography

GEOG 106 (3) Physical Geography

**Upper Division Electives (9 units)**

*Complete at least three upper division  
electives approved by the department chair.*

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DRAFT

# GEOLOGY

## **Bachelor of Science degree with a major in Geology**

## **Bachelor of Arts degree with a major in Geology** — Geosciences concentration

### **Minor in Geology**

See *Environmental Systems* for details on the *Master of Science* degree.

Department Co-Chairs  
Brandon L. Brown, Ph.D.  
Mark Hemphill-Haley, Ph.D.

### **Department of Geology**

Founders Hall 7  
707-826-3931  
humboldt.edu/geology

### **The Program**

The geology program provides students with a solid foundation in Earth system science, how the Earth and its processes affect humans, and how human activities affect the Earth.

Students completing this program will:

- understand the fundamental concepts of Earth's many systems
- be able to find, analyze, and assess scientifically credible information about the Earth in both printed and electronic forms
- communicate about Earth science in a meaningful way both verbally and in writing
- be able to make informed and responsible decisions regarding the Earth and its resources
- possess the skills and background to gain employment and/or admission to graduate studies in the Earth sciences.

The BS degree in geology is recommended for students who plan to seek work as professional geologists (e.g., engineering geology, hydrology, environmental geology, natural resource geology) and/or enter graduate school in the geosciences. The BA degree in geology with a concentration in geoscience is aimed toward students who are interested in careers or pursuing graduate work in broader fields of environmental science, hazard/resource management and planning, environmental policy, and teaching. The second discipline provides greater breadth and expertise in an additional field.

Humboldt's setting provides a natural laboratory to study earthquakes, tsunamis, mountain building, landsliding, river processes, natural mineral and metal resources, volcanism, and rapid coastal erosion. The area

also contains good exposures of nearshore marine deposits and fossils recording the late Cenozoic history of the region. Students frequently take field trips to surrounding areas both along the coast and inland. Geology majors may also pursue a thesis project under the supervision of a faculty mentor.

At Humboldt, you will also be able to use research tools including petrographic microscopes, scanning electron microscope, geophysical exploration equipment and a real-time kinematic GPS unit. Employers seek out Humboldt geology graduates because of their competence in the field and rigorous scientific background.

Career opportunities include positions with local/state/federal government scientific and resource management agencies, geotechnical and environmental consulting firms, nonprofit conservation agencies, and universities/colleges/K-12 schools. Job titles of Humboldt geology graduates include: geologist, petrologist, volcanologist, consultant, technical writer or editor, seismologist, emergency manager, hazards mitigation specialist, field geologist, marine geologist, hydrologist, geomorphologist, museum curator, and science teacher.

### **Preparation**

Students will be most successful if they take mathematics, chemistry, physics, biology and any environmental studies in high school if available. Students need to be able to write and speak effectively in English and are expected to be proficient in computer applications.

### **REQUIREMENTS FOR THE MAJOR (Bachelor of Science)**

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

#### **Unit Requirements**

**Total units in the major: 69-70**

**Total units required for the degree: 120**

#### **Lower Division**

CHEM 109	(5) General Chemistry I
CHEM 110	(5) General Chemistry II
GEOL 109	(4) General Geology
GEOL 210	(3) Earth Systems History
MATH 109	(4) Calculus I
MATH 110	(4) Calculus II

Complete one of the following:

MATH 210	(4) Calculus III
STAT 108	(3) Elementary Statistics
STAT 108i	(3) Elementary Statistics with Integrated Support <b>and</b> corequisite: STAT 8 [1 unit]
STAT 109	(4) Introductory Biostatistics

Complete one of the following two-semester physics series:

PHYX 106	(4) College Physics: Mechanics & Heat <b>and</b>
PHYX 107	(4) College Physics: Electromagnetism & Modern Physics
PHYX 109	(4) General Physics A: Mechanics <b>and</b>
PHYX 210	(4) General Physics B: Thermodynamics, Waves & Optics

#### **Upper Division**

GEOL 306	(3) General Geomorphology
GEOL 312	(4) Earth Materials
GEOL 314	(4) Petrology
GEOL 332	(4) Sedimentary Geology
GEOL 334	(4) Structural Geology
GEOL 335	(2) Geologic Field Methods I
GEOL 435	(2) Geologic Field Methods II
GEOL 475	(4) Geology Field Camp
GEOL 486	(1) Research Methods

Complete 5 units of approved upper division geology areas of specialization, including at least one of the following:

GEOL 457	(3) Engineering Geology
GEOL 460	(3) Solid Earth Geophysics
GEOL 474	(3) Volcanology
GEOL 482	(1-3) Instrumental Methods in Geology
GEOL 490	(1) Senior Thesis
GEOL 492	(2) Senior Thesis Project
GEOL 524	(3) Methods of Geochronology
GEOL 531	(1-3) Advanced Physical Geology
GEOL 550	(3) Fluvial Processes
GEOL 551	(3) Hillslope Processes
GEOL 553	(4) Quaternary Stratigraphy
GEOL 554	(2) Advanced Geology Field Methods
GEOL 555	(3) Neotectonics
GEOL 556	(4) Hydrogeology
GEOL 561	(3) Applied Geophysics

### **REQUIREMENTS FOR THE MAJOR (Bachelor of Arts)**

#### **Geosciences Concentration**

#### **Unit Requirements**

**Total units in the major: 67-68**

**Total units required for the degree: 120**

**Lower Division (24-25 units)**

- CHEM 109 (5) General Chemistry I  
 GEOL 109 (4) General Geology  
 GEOL 110 (1) Field Geology of the Western US  
 GEOL 210 (3) Earth Systems History  
 MATH 109 (4) Calculus I  
 PHYX 106 (4) College Physics: Mechanics & Heat

*Complete one of the following:*

- STAT 108 (3) Elementary Statistics  
 STAT 108i (3) Elementary Statistics with Integrated Support [Coreq: STAT 8]  
 STAT 109 (4) Introductory Biostatistics

**Upper Division (31 units)**

- GEOL 300 (3) Geology of California  
 GEOL 300L (1) Geology of California Field Trip  
 GEOL 306 (3) General Geomorphology  
 GEOL 312 (4) Earth Materials  
 GEOL 332 (4) Sedimentary Geology  
 GEOL 335 (2) Geologic Field Methods I  
 GEOL 435 (2) Geologic Field Methods II  
 GEOL 455 (1) Geology Colloquium  
 GEOL 465 (2) Geosciences Senior Project  
 GEOL 486 (1) Research Methods

*Complete one of the following:*

- GEOL 303 (3) Earth Resources & Global Environmental Change, **or**  
 GEOL 308 (3) Natural Disasters

**Upper Division Elective Courses**

*Complete 5 units of approved upper division geology courses.*

**Second Discipline (12 units)**

Complete at least 12 units of department approved courses within a discipline outside of the geology discipline (e.g., business chemistry, geospatial analysis). Students are encouraged, though not required, to pursue a minor in one of these fields so as to broaden technical skills and expertise.

**REQUIREMENTS FOR THE MINOR**

**Total units required for the minor: 19**

- GEOL 109 (4) General Geology  
 GEOL 306 (3) General Geomorphology

*One of the following:*

- GEOL 110 (1-2) Field Geology of the Western US  
 GEOL 335 (2) Geologic Field Methods I

*At least one of the following four courses:*

- GEOL 300 (3) Geology of California  
 GEOL 303 (3) Earth Resources & Global Environmental Change  
 GEOL 305 (3) Fossils, Life & Evolution  
 GEOL 308 (3) Natural Disasters

*One of the following:*

- GEOL 312 (4) Earth Materials  
 GEOL 332 (4) Sedimentary Geology

Plus 3 units of approved upper division GEOL coursework.



# GEOSPATIAL ANALYSIS MINOR

## Minor in Geospatial Analysis

This program prepares students to apply the technologies of geographic information systems, cartography, and multispectral remote sensing, to various disciplines. These cross-disciplinary research tools analyze and portray data across time and geographic space. Although offered through the departments of Environmental Science & Management, Forestry, and Geography, each course carries the GSP (Geospatial) prefix.

### Advisors

Nicholas Perdue  
Founders Hall 134  
707-826-4115  
Nicholas.Perdue@humboldt.edu

Dr. James Graham  
NR 217  
707-826-3823  
James.Graham@humboldt.edu

### The Program

Geospatial technologies portray and analyze geographic location and characteristics of physical and human environments. Applying these software technologies, geospatial data is layered and analyzed to understand and communicate complex phenomena such as natural disasters, environmental impact, land coverage change, migrating populations, crime patterns, global warming, and changing economic trends. Geospatial analysis skills are applicable to a growing list of professions, and increasingly sought after by employers.

### REQUIREMENTS FOR THE MINOR

Total units required for the minor: 16

#### Special Grade Requirement

Complete all courses in the minor with a C- or better, and maintain a 2.00 or better GPA in the minor.

GSP 101	(2) Geospatial Concepts
GSP 101L	(1) Geospatial Concepts Lab
GSP 216	(3) Introduction to Remote Sensing
GSP 270	(3) Geographic Information Science (GIS)
GSP 316	(4) Cartography
GSP 318	(3) Geospatial Programming I, or
GSP 326	(3) Intermediate Remote Sensing, or
GSP 330	(3) Mobile Mapping, or
GSP 370	(3) Intermediate GIS, or

GSP 416 (4) Advanced Cartography Design Seminar

### Additional Information on GSP Courses & Departments

Because Geospatial Analysis skills are applicable to many different fields of inquiry, GSP courses are offered by three different departments. Some programs offer Geospatial options within their major and are integrated into curricula as major options. Below is a list of all GSP courses at HSU organized by the departments that offer them.

#### Department of Environmental Science & Management

Natural Resources Building 200  
707-826-4147  
environment.humboldt.edu

GSP 270	Geographic Information Science (GIS)
GSP 318	Geospatial Programming I
GSP 330	Mobile Mapping
GSP 370	Intermediate GIS
GSP 418	Geospatial Programming II
GSP 470	Advanced Geospatial Analysis & Modeling
GSP 570	Advanced Geospatial Analysis & Modeling

#### Department of Forestry & Wildland Resources

Forestry Building 205  
707-826-3935  
fwr.humboldt.edu

GSP 216	Introduction to Remote Sensing
GSP 326	Intermediate Remote Sensing
GSP 436	Advanced Remote Sensing

#### Department of Geography, Environment & Spatial Analysis

Founders Hall 109  
707-826-3946  
geography.humboldt.edu

GSP 101	Geospatial Concepts
GSP 101L	Geospatial Concepts Lab
GSP 280	Special Topics in GSP
GSP 316	Cartography
GSP 416	Advanced Cartography Design Seminar
GSP 426	Cartography Practicum



# GERMAN STUDIES MINOR

## Minor in German Studies

### Department Chair

Joseph Diémé, Ph.D.

### Program Director

Joseph Diémé, Ph.D.

## Department of World Languages & Cultures

Behavioral & Social Sciences 206  
707-826-3226, fax 707-826-4320  
wlc.humboldt.edu

## The Program

Students take language classes in a dynamic, student-centered environment that highlights language acquisition as well as cultural sensitivity for the heritage of the German-speaking nations. Beginning students acquire the ability to speak, understand, read, and write in German with reasonable fluency.

**Study Abroad Options.** Students have the opportunity to study abroad with the CSU International Programs in Germany. Students are encouraged to officially plan an academic residency abroad when possible. The cost of the residency abroad varies according to the program and world region. Students should understand the costs involved and plan ahead. Consult with the HSU Center for International Programs.

**Possible careers.** Careers in the USA, Europe and other countries include artist, musician, web designer, teacher, ESL teacher, international banker, lawyer, or financier; interpreter; travel agent, tour guide, export/import employee, foreign service officer; foreign correspondent, or work in non-governmental organizations.

**Special Scholarship and Awards.** The Department of World Languages and Cultures has three permanent scholarships and awards:

- The Benavides-Garb Family International Travel Award
- The Joe and Helen Bottino Memorial Travel Award
- The Frank B. Wood Scholarship

All language students are encouraged to apply for these important scholarships and awards to enhance language studies with an international residence. See the department web page for further information.

## Preparation

Students should have a good background in English grammar and syntax. While knowledge of German is welcome, it is not required.

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: 22

### Required Courses (18 units)

GERM 107 (4) German Language & Culture III

GERM 207 (4) German Language & Culture IV

GERM 311 (4) German Level V [Rep]

GERM 312 (4) German Level VI [Rep]

### Upper Division Electives (6 units)

*Complete an additional 6 units selected from the following courses (depending upon interests and particular emphasis of the student), with at least one course from outside of the German program.*

ART 301 (3) Topics in Western Art History [when appropriate]

ECON 305 (3) International Economics & Globalization

ENGL 240 (4) World Literature [when appropriate]

GEOG 472 (1-4) Topics in Regional Geog. [when appropriate]

GERM 305 (3) Marx, Nietzsche, Freud & German Literature

GERM 306 (3) Sex, Class, and Culture: Gender & Ethnic Issues in International Short Stories

GERM 480 (1-4) Special Topics

GERM 499 (1-3) Directed Study

HIST 300 (3) The Era of World War I

HIST 301 (3) The Era of World War II

HIST 348 (4) Modern Germany

PHIL 343 (3) Kant & the 19th Century

PSCI 330 (4) Political Regimes & Political Change: Europe

Courses offered by various departments, often under the rubric of Special Topics, may be relevant and appropriate to the German Studies minor. Such courses will be approved by the German Studies faculty advisor on a case-by-case basis.

## About Electives

The department encourages students to combine the study of German with their other academic interests. In addition to the

courses listed above, students may use relevant courses from other disciplines as elective credit toward the minor in German Studies. For example: an art history class discussing German art topics; a geography class focused on Western Europe; history and political science classes in which German issues are a major part; or a philosophy class covering German philosophers. Consult with the German advisor about these electives.



# HISTORY

## Bachelor of Arts degree with a major in History

## Bachelor of Arts degree with a major in History — concentration in Education

### Minor in History

### Department Chair

Suzanne Pasztor, Ph.D.

### Department of History

Founders Hall 180

707-826-3641

history.humboldt.edu

### The Program

Students completing this program will have demonstrated the ability to:

- Locate diverse types of historical evidence; evaluate credibility, position or perspective; and determine how to use appropriately
- Place primary and secondary sources in appropriate historical and historiographical context, with attention to the chronology, geography (local, national, and global), culture and methodology
- Develop a body of historical knowledge with range and depth that recognizes the causes and consequences of continuity and change over time
- Be able to understand and evaluate different perspectives and arguments, engaging with the ideas of other historians and citing them appropriately
- Create a research question, conduct effective and wide-ranging research to procure evidence, formulate a persuasive analytical argument, and communicate it effectively in a written or oral format
- Apply historical knowledge and analysis to contribute to contemporary social dialogue and to life-long learning and critical habits of mind essential to an effective and engaged citizenship.

This program is excellent preparation for a wide range of careers. The emphasis on broadly applicable skills such as research, writing, face-to-face communication, and critical thinking prepare graduates for any number of jobs. More specifically, history graduates are especially well suited to work not only as archivists, academic historians, public historians and curators, but also as diplomats, editors, law clerks, librarians, pub-

licists, and writers. A history degree is also superb academic preparation for graduate studies in law, business, and many academic disciplines.

### Preparation

In high school take history, English, geography, government, and foreign languages.

### REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### Unit Requirements

Total units in the major: **48**

Total units required for the degree: **120**

### Special Grade Requirement

History majors must receive a C- or better in their major courses to pass.

### Lower Division (16 units)

HIST 110	(3) U.S. History to 1877
HIST 111	(3) U.S. History from 1877
HIST 210	(4) Historical Methods

*Complete two of the following courses:*

HIST 104	(3) Western Civilization to 1650
HIST 105	(3) Western Civilization, 1650 to Present
HIST 106B	(3) Islamic Societies: The Making of the Muslim Middle East
HIST 107	(3) East Asian History to 1644
HIST 108	(3) East Asian Civilization Since 1644
HIST 109	(3) Colonial Latin American History
HIST 109B	(3) Modern Latin America

*Take HIST 210 before enrolling in upper division major courses*

### Upper Division Areas (24 units)

*Complete a minimum of 24 units selected from the area course lists below. At least one course must be selected from each area.*

*Special topics courses (HIST 391, HIST 392, HIST 393) may be used in the appropriate areas. See an advisor concerning HIST 311 and HIST 312.*

### European History Area Course List

HIST 300	(3) Era of WWI, and
HIST 300R	(1) Era of WWI Research Seminar

HIST 301	(3) Era of WWII, and
HIST 301R	(1) Era of WWII Research Seminar
HIST 314	(4) Ancient Greek Civilization & History
HIST 315	(4) History & Civilization of Rome
HIST 322	(4) The Age of Knights & Monks
HIST 342	(4) Musketeers, Witches, & Kings
HIST 343	(4) French Revolution & Napoleon
HIST 345	(4) Imperialism
HIST 348	(4) Modern Germany
HIST 349	(4) Renaissance & Reformation
HIST 350	(4) History of the Soviet Union
HIST 353	(4) Modern Britain
HIST 392	(1-4) Special Topics in European History

### US History Area Course List

HIST 368	(4) Colonial & Revolutionary America
HIST 369	(4) The Age of Jefferson & Jackson
HIST 371	(4) Civil War & Reconstruction
HIST 372	(4) Rise of Modern America, 1877-1929
HIST 374	(4) Contemporary America, 1929 to the Present
HIST 375A	(4) US Foreign Relations, 1789-1943
HIST 375B	(4) US Foreign Relations, 1943-Present
HIST 383	(4) California History
HIST 391	(1-4) Special Topics & Interdisciplinary Studies in History

### World Regions History Area Course List

HIST 319	(4) Emergence of the Modern Middle East
HIST 323	(4) Gender & Sexuality in East Asian History
HIST 324	(4) The Arab-Israeli Conflict: History, Narratives & Nationalism
HIST 326	(4) History of Mexico
HIST 327	(4) History of Brazil
HIST 328	(4) Women & Gender in Latin America
HIST 329	(4) Imperial China
HIST 338	(4) Modern Chinese History
HIST 339	(4) Modern Japanese History
HIST 377	(4) Vietnam Wars
HIST 393	(1-4) Special Topics in Non-Western History

### Practicum Courses

Complete four 1-unit courses:

- HIST 387 (1) Int'l Education Colloquium
- HIST 394 (1) History Conference
- HIST 395 (1) Classroom Observation  
for History Day
- HIST 396 (1) Int'l Latino Film Seminar
- HIST 397 (1) Weekend Workshop
- HIST 398 (1) History Career Workshop
- HIST 482 (1) Internship in History
- HIST 491 (1) Mentoring

### Capstone Course

- HIST 490 (4) Senior Seminar

### History Education Concentration (Social Science Education)

#### The Program

The History major with a concentration in Education prepares students to enter a Single Subject Secondary Education Credential program after they graduate with their B.A. degree. This is a major in History that prepares students to become Social Science teachers in California. In addition to history courses the student must also complete coursework in economics, geography, and politics. This coursework comprises the History Department's Social Science Education waiver major, which waives the state requirement to take and pass the California Subject Examination for Teachers (CSET).

#### Unit Requirements

Total units in the major: 51  
Total units required for the degree: 120

#### Special Grade Requirement

Majors must receive a C- or better in their major courses to pass

#### Lower Division

- HIST 110 (3) U.S. History to 1877
- HIST 111 (3) U.S. History from 1877
- HIST 210 (4) Historical Methods

#### Upper Division

##### World Survey

- HIST 311 (3) World History to 1750
- HIST 312 (3) World History from 1750

##### U.S. History

- HIST 383 (4) California History

Complete at least 4 units selected from the US History area course list on the previous page.

### European History or World Regions

Complete at least 7 units selected from the European History or World Regions History area course lists on the previous page.

### Social Science Courses

- ECON 323 (3) Economic History  
of the US
- GEOG 105 (3) Human Geography
- PSCI 230 (3) Introduction to  
Comparative Politics
- PSCI 303 (3) Third World Politics

### Capstone Courses

- GEOG 470 (3) Topics in Geography for  
Teachers (fall only)
- HIST 395 (1) Classroom Observation  
for History Day
- HIST 420 (4) Interpreting History for  
Teachers (fall only)

### REQUIREMENTS FOR THE MINOR

Total units required for the minor: 22

#### Special Grade Requirement

History minors must receive a C- or better in their minor courses to pass.

#### Lower Division (10 units)

- HIST 110 (3) U.S. History to 1877, or
- HIST 111 (3) U.S. History from 1877
- HIST 210 (4) Historical Methods

Complete one course:

- HIST 104 (3) Western Civilization  
to 1850
- HIST 105 (3) Western Civilization,  
1850 to Present
- HIST 106B (3) Islamic Societies: The  
Making of the Muslim  
Middle East
- HIST 107 (3) East Asian History to  
1644
- HIST 108 (3) East Asian Civilization  
Since 1644
- HIST 109 (3) Colonial Latin American  
History
- HIST 109B (3) Modern Latin America

#### Upper Division (12 units)

Complete 12 units of upper division history electives.



# INTERNATIONAL STUDIES

## Bachelor of Arts degree

### with a major in International Studies

- concentrations in Chinese Studies, European Studies, Latin American Studies, Global Cultural Studies, Third World Development Studies

## Minor in International Studies

### Program Leader

Alison Holmes, Ph.D.

### International Studies Program

Founders Hall 180

707-826-4494; fax 707-826-4496

internationalstudies.humboldt.edu

## The Program

The world's biggest challenges are interconnected and the HSU International Studies Program helps students remain rooted in the community while becoming agents of change in the world.

A unique interdisciplinary program, International Studies has four distinct components: a core curriculum based on the cultural, political and economic aspects of globalization; proficiency in a second language; a concentration in one of five areas (China, Europe, Latin America, Global Culture, and Third World Development) and the equivalent of a semester study abroad.

These elements come together in a flexible combination of classroom instruction and direct experience with the regions and issues of interest and make HSU stand out as one of the few universities in the CSU system that requires both a language and study abroad as part of this degree.

Employers also regularly report language skills, intercultural awareness and study abroad as strong indicators of success in the workplace. This is why our graduates can be found in the international labor force in the US and abroad, working in the private sector; for nonprofits and commonly go on to serve in the Peace Corps. The program also provides a strong foundation for graduate work in many fields.

Students completing this major will have demonstrated:

- the ability to analyze regional and global issues from economic, political, and cultural perspectives
- linguistic competency in a second language
- cultural competency in diverse international environments

- the ability to gather information and use interdisciplinary analysis skills to critically evaluate regional and global issues
- proficiency in formal written and oral communication
- skills required to build an international career.

## REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### Unit Requirements

**Core units:** 25-46

**Concentration units:** 12

**Total units in the major:** 37-58

**Total units required for the degree:** 120

### Special Grade Requirement

A minimum grade of C- must be earned in all courses for the major or local equivalent while abroad.

### Core Courses [25-46 units]

*The following core courses are required for all international studies majors. The range of units includes up to five second language courses, which may be required depending on second language proficiency.*

INTL 210	(4) Introduction to International Studies
INTL 220	(3) Introduction to Cultural Studies
PSCI 240	(3) Introduction to International Relations, <b>or</b>
GEOG 363	(3) Political Geography
ECON 305	(3) International Economics and Globalization, <b>or</b>
ECON 306	(3) Economics of the Developing World [DCG-n]
<i>Complete one methodology course.</i>	
ANTH 318†	(4) Ethnography [Prereq: ANTH 104]
CRGS 390†	(4) Theory & Methods [DCG-n]
GEOG 311	(3) Geographic Research and Writing
HIST 210	(4) Historical Methods
PSCI 295	(4) Political Research & Analysis

*Complete the following courses.*

INTL 320	(1) Career Workshop
INTL 387	(1) International Education Week Colloquium
INTL 410	(4) Global Issues Analysis
INTL 490	(3) International Studies Capstone

## Second Language (0-20 units)

Demonstrate proficiency in a target language pertinent to the concentration area, equivalent to a fifth semester or higher of college-level language. Meet this requirement by taking a fifth-semester-level language course.

This requirement can also be met by examination. Contact the Department of World Languages and Cultures for instructions.

## Residency Abroad

Complete an approved academic semester program abroad equivalent to at least 12 units and normally lasting at least 10 weeks. Program must be selected in consultation with and approved by advisor.

In exceptional circumstances, the program leader may approve an accommodation based on an alternative experience that meets the residency abroad learning outcome. The procedure for requesting such an accommodation, along with the criteria, can be found on the International Studies website.

Residency abroad may begin during the second semester of a student's sophomore year (generally spring) and must be completed by the end of the first semester of a student's senior year (generally fall).

Residency abroad may not occur during a student's last semester. Students are expected to complete their final semester in residence at Humboldt State University.

For some concentrations, courses taken abroad may be necessary to fulfill requirements. Concentration electives may also be completed while abroad. Both require prior advisor approval.

All students are encouraged to use their academic residency abroad efficiently by completing, where possible, language and university general education requirements.

The cost of the residency abroad varies according to the program and world region. Students should understand the costs involved and plan ahead. Consult with the HSU Center for International Programs office.

\* Course only meets requirements if specific topic is appropriate to the concentration area. Consult with an advisor.

† Course requires a prerequisite that is not required elsewhere in the major.

## Concentrations (12 units)

Complete **one** of the following concentrations to fulfill the requirements of the major.

### Chinese Studies Concentration (12 units)

See core courses.

Complete three breadth courses and one or more special topics courses for a minimum of 12 units.

#### Breadth Areas

ANTH 307	(3)	World Heritage & Archaeology [DCG-n]*
ANTH 390	(4)	World Regions Cultural Seminar: China*
CHIN 109	(3)	Intro to Chinese Studies
GEOG 472	(3)	Topics in Regional Geography*
HIST 107	(3)	East Asian Civilization to 1644, <b>or</b>
HIST 108	(3)	East Asian Civilization Since 1644
HIST 329	(4)	Imperial China
HIST 338	(4)	Modern Chinese History
PHIL 345	(3)	Philosophies of China
PSCI 376	(2)	Multilateralism & the UN System <b>and</b>
PSCI 377	(1)	Model United Nations
RS 340	(3)	Zen, Dharma & Tao

#### Special Topic Research

Complete one or more courses for a total of at least 2 units. (Instructor approval required)

ANTH 499	(1-4)	Independent Study*
CHIN 480	(1-4)	Undergraduate Seminar [Often taught abroad]
GEOG 411	(4)	Senior Field Research in China*

### European Studies Concentration (12 units)

See core courses.

Complete at least 12 units. For an emphasis on:

- Europe as a whole, take any four of the courses below
- France, take at least two FREN courses
- Spain, take at least two SPAN courses
- Germany, take at least two courses that focus primarily on Germany

ART 301-304	(3-4)	Topics in Art History*
ENGL 342	(4)	Special Topics in Shakespeare
ENGL 350	(4)	British Literature
ENGL 465C	(3)	Multicultural Issues in Literature/Languages
FREN 312	(4)	French VI & (R)evolution in Modern French Literature

FREN 314	(4)	Cultural History Topics in Early French Masterpieces
FREN 323	(2)	Culture and Civilization in France [Taught abroad]
FREN 480	(1-4)	Upper Division Seminar/Retreat [in English or French]
GEOG 332	(4)	Geography of the Mediterranean
GEOG 472	(3)	Topics in Regional Geography*
GERM 305	(3)	Marx, Nietzsche, Freud & German Literature
GERM 480	(1-4)	Undergraduate Seminar
HIST 300	(3)	Era of World War I
HIST 301	(3)	Era of World War II
HIST 345	(4)	Imperialism
HIST 348	(4)	Modern Germany
PHIL 355	(3)	Existentialism
PSCI 376	(2)	Multilateralism & the United Nations System <b>and</b>
PSCI 377	(1)	Model United Nations
PSCI 330	(4)	Political Regimes & Political Change*
SPAN 342	(4)	Cervantes
SPAN 343	(4)	The Golden Age
SPAN 349	(4)	Contemporary Spanish Novel
SPAN 401	(4)	Hispanic Civilization: Spain

### Latin American Studies Concentration (12 units)

See core courses.

Complete two courses in each area for a minimum of 12 units.

#### Social Sciences

ANTH 307	(3)	World Heritage & Archaeology [DCG-n]
ES 310	(4)	US & Mexico Border [DCG-n]
GEOG 472	(3)	Topics in Regional Geography*
HIST 109	(3)	Colonial Latin American History
HIST 109B	(3)	Modern Latin America
HIST 326	(4)	History of Mexico
PSCI 376	(2)	Multilateralism & the United Nations System <b>and</b>
PSCI 377	(1)	Model United Nations
SPAN 355	(1-4)	Hispanic Civilization: Regional Studies
SPAN 365S	(1-4)	Field Experience: Regional Studies
SPAN 402	(4)	Hispanic Civilization: Latin America

#### Arts & Literatures

ART 104M	(3)	Latin American Art [DCG-n]
ART 301	(3)	Topics in Western Art History*

SPAN 335	(1-4)	Reading & Writing: Regional Studies
SPAN 345	(4)	Hispanic Cinema
SPAN 346	(4)	Borges & the Contemporary Spanish American Short Story
SPAN 347	(4)	The "Boom" of the Latin American Novel
SPAN 348	(4)	Contemporary Hispanic Poetry

### Global Cultural Studies Concentration (12 units)

See core courses.

#### Required Courses (9 units)

ANTH 307	(3)	World Heritage & Archaeology [DCG-n]
ENGL 305	(3)	Postcolonial Perspectives: Literature of the Developing World
MUS 302	(3)	Music in World Culture

#### Elective Courses

Complete one course (minimum 3 units).

ART 104K	(3)	Africa, Oceania, the Americas [DCG-n]
ART 104M	(3)	Latin American Art [DCG-n]
ART 104N	(3)	Asian Art [DCG-n]
DANC 303	(3)	Dance in World Cultures
FREN 300	(3-4)	African Storytelling
FREN 326	(1-4)	Culture & Civilization: Reg. Studies [Taught abroad]
FREN 340	(2-4)	Topics in Francophone Culture
GEOG 472	(3)	Topics in Regional Geography*
SPAN 344	(4)	Modern Hispanic Theater Workshop
SPAN 345	(4)	Hispanic Cinema
SPAN 346	(4)	Borges & the Contemporary Spanish American Short Story
SPAN 347	(4)	The "Boom" of the Latin American Novel
SPAN 348	(4)	Contemporary Hispanic Poetry
SPAN 349	(4)	Contemporary Spanish Novel
WS 306/FREN 306/GERM 306/SPAN 306	(3)	Sex, Class & Culture: Gender & Ethnic Issues in Int'l Short Stories

\* Course only meets requirements if specific topic is appropriate to the concentration area. Consult with an advisor.

† Course requires a prerequisite that is not required elsewhere in the major.

### **Third World Development Studies Concentration (12 units)**

See core courses. Students in this concentration must choose ECON 306 Economics of the Developing World in the program core.

#### **Required Courses (7 units)**

ANTH 316 (4) Anthropology & Development  
PSCI 303 (3) Third World Politics

#### **Elective Courses (at least 5 units).**

At least one of these electives may need to be taken as part of study abroad. Prior advisor approval is required.

ANTH 317 (4) Women & Development  
GEOG 472 (3) Topics in Regional Geography\*  
PSCI 330 (4) Political Regimes & Political Change\*  
PSCI 364 (4) Technology & Development  
PSCI 376 (2) Multilateralism and the UN System  
PSCI 377 (1) Model United Nations

\* Course only meets requirements if specific topic is appropriate to the concentration area. Consult with an advisor.

#### **Miscellaneous**

Students are encouraged to complement the International Studies program and concentrations by selecting electives related to the international studies field that will fulfill the total number of units for graduation.

Equivalent or Special Topic courses offered by any department may fulfill requirements for any concentration. Prior advisor approval is required.

#### **Minor in International Studies**

Students completing this minor will have demonstrated:

- the ability to analyze regional and global issues from economic, political, and cultural perspectives
- the ability to gather information and use interdisciplinary analysis skills to critically evaluate regional and global issues
- proficiency in formal written and oral communication
- skills needed to build an international career.

### **REQUIREMENTS FOR THE MINOR**

Total units required for the minor: 19

#### **Special Grade Requirement**

A minimum grade of C- must be earned for all courses in the minor.

#### **Required Courses [19 units]**

INTL 210 (4) Introduction to International Studies  
INTL 220 (3) Introduction to Cultural Studies  
PSCI 240 (3) Introduction to International Relations,  
ECON 305 (3) International Economics & Globalization, **or**  
ECON 306 (3) Economics of the Developing World [DCG-n]  
INTL 320 (1) Career Workshop  
INTL 387 (1) International Education Week Colloquium  
INTL 410<sup>†</sup> (4) Global Issues Analysis

<sup>†</sup> Students must complete INTL 210, INTL 220, PSCI 240 and ECON 305 or ECON 306 prior to enrolling in INTL 410. Discuss corequisite options with minor advisor.

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<sup>†</sup> Course requires a prerequisite that is not required elsewhere in the major.

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# JOURNALISM

## Bachelor of Arts degree

### with a major in Journalism —

concentrations available in News and Public Relations

## Minor in Journalism

### Journalism Certificate of Study

#### Department Chair

Victoria Sama

#### Department of Journalism & Mass Communication

Bret Harte House 52

707-826-4775

journalism.humboldt.edu

#### The Program

Students completing this program will have demonstrated:

- knowledge of media laws and First Amendment rights and limitations
- they understand how media professionals, institutions, and industries produce and shape the news
- they understand ethical principles related to mass media
- they are able to gather information from diverse sources
- they can write clearly in forms and styles appropriate for the communications professions, audiences, and purposes they service
- they can critically evaluate their own work and that of others for accuracy and fairness, clarity, appropriate style and grammatical correctness
- they can tell non-fiction stories across media forms using visual and audio tools and technologies.

The Journalism major prepares students for careers in news, public relations, and related fields. As early as their freshmen year, students can produce multimedia stories for our award-winning student newspaper *The Lumberjack*, *Osprey* magazine, and KRFH radio station.

Our primary focus is on producing good, ethical journalists and media practitioners. But our goal is also to make students more critical thinkers about the media. Students learn ways to communicate information effectively and tell compelling stories across media forms. They study the role of the media in our society and how the media industries shape our culture and are affected by political and economic systems.

Possible careers for our graduating students include: news writer, reporter, editor, magazine writer, page designer, copy editor, photographer, television or radio reporter,

news anchor, broadcast news director, producer, public relations representative, advertising director, sports information director, sports writer, online editor, and webmaster.

#### Preparation

In high school take English and government and work on school publications.

#### REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

#### Unit Requirements

Core units: 33  
Concentration units: 12  
Total units in the major: 45  
Total units required for the degree: 120

#### Core Courses (33 units)

##### Lower Division

JMC 105 (3) Introduction to Mass Communication  
JMC 120 (3) Beginning Reporting  
JMC 125 (3) Intro to Journalism Tools

##### Upper Division

JMC 327 (2) Lumberjack News Workshop  
JMC 328 (3) Media Law  
JMC 332 (3) Media Ethics  
JMC 480 (3) Special Topics

Complete one course from the following:

JMC 302 (3) Mass Media & Popular Arts  
JMC 305 (3) International Mass Communication  
JMC 306 (3) Mass Communication History  
JMC 309 (3) Analyzing Mass Media Messages

#### Experiential Learning Courses

Complete 6 lower division units (each course may be used once to meet this requirement.)

JMC 134 (3) Photojournalism & Photoshop  
JMC 150 (3) Digital Design  
JMC 154 (3) Radio Production  
JMC 155 (1) KRFH Workshop  
JMC 156 (3) Video Production  
JMC 160 (2) El Leñador Newspaper

Complete 4 upper division units (each course may be used once to meet this requirement.)

JMC 325 (2) Osprey Magazine Production  
JMC 333 (2) Radio News Workshop  
JMC 355 (2) Advanced KRFH Workshop

JMC 360 (2) Advanced El Leñador Newspaper  
JMC 427 (2) Advanced Lumberjack News Workshop  
JMC 482 (1-3) Mass Media Internship  
JMC 490 (1-4) The KHSU Experience

#### Concentrations

Complete one of the following concentrations to fulfill the requirements of the major:

##### News Concentration (12 units)

JMC 318 (3) Media Research, or  
JMC 322 (3) Editing

Complete 9 units from the following:

JMC 320 (3) Advanced Reporting  
JMC 324 (3) Advanced News Writing  
JMC 334 (3) Advanced Photojournalism  
JMC 336 (3) Advanced Video Production  
JMC 450 (3) Media Management

##### Public Relations Concentration (12 units)

JMC 322 (3) Editing  
JMC 323 (3) Public Relations  
JMC 429 (3) Advanced Public Relations

Complete one of the following courses:

JMC 318 (3) Media Research  
JMC 354 (3) Media Advertising  
JMC 450 (3) Media Management

#### REQUIREMENTS FOR THE MINOR

Total units required for the minor: 16

This minor will prepare students for careers as reporters, writers, editors, producers, publishers, broadcasters, photographers, page and web designers, public relations and advertising professionals, and media scholars and researchers.

JMC 105 (3) Introduction to Mass Communication  
JMC 120 (3) Beginning Reporting

Complete one course from the following:

JMC 305 (3) International Mass Communication  
JMC 306 (3) Mass Communication History  
JMC 318 (3) Media Research  
JMC 328 (3) Media Law  
JMC 332 (3) Media Ethics

Complete 7 units of approved courses from those required for the journalism major, including any of the courses listed above.



# KINESIOLOGY

## Bachelor of Science degree with a major in Kinesiology —

concentrations available in Exercise Science/Health Promotion, Physical Education Teaching, or Pre-Physical Therapy

## Minor in Health Education

## Minor in Kinesiology

## Master of Science degree in Kinesiology —

Advanced study to prepare graduate students for doctoral and professional programs and careers in the promotion of physical activity.

**Single Subject Credential** (see Physical Education Teaching Concentration leading to a single subject credential)

## Department Chair

Justus Ortega, Ph.D.

## Department of Kinesiology & Recreation Administration

Kinesiology & Athletics 305  
707-826-4536  
kra.humboldt.edu

## The BS Program

Students completing this program will have demonstrated the ability to:

- identify and explain the concepts of kinesiology
- analyze, synthesize, and evaluate relevant information from scientific literature to inform professional practice
- demonstrate effective written and oral communication for the discipline of kinesiology
- apply knowledge and skills from kinesiology to promote health and physical activity, and optimize performance among diverse populations.

Humboldt provides students with three new state-of-the-art laboratory facilities, including the human performance, biomechanics, and behavioral performance labs. A natatorium, plus two gymnasiums, dance studio, an all-weather track and field, cross-country trails, stadium, and two playing fields round out the facilities. In addition to their academic coursework, students develop their skills through fieldwork and practicum experiences in their areas of study.

## Preparation

High school students should take the college preparatory program plus biology, math, anatomy, and physiology. Participation in

intercollegiate sports, physical activities, and a computer course are encouraged.

## REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

The Upper Division Area B General Education requirement is met by the coursework within the Bachelor of Science degree for Kinesiology.

## Unit Requirements

**Core Courses** 35-36

**Concentration units:** 33-38

**Total units in the major:** 68-74

**Total units required for the degree:** 120

## Special Grade Requirement

Students must earn a C- or better in all required courses for the major that have a KINS, ZOOL, REC, or HED prefix (or their equivalent, in the case of courses transferred from another institution).

## Core Courses (35-36 units)

### Lower Division

- BIOL 104 (3) General Biology, **or**  
BIOL 105\* (4) Principles of Biology  
(required for pre-physical  
therapy concentration)  
HED 120 (1) Responding to  
Emergencies — CPRFPR  
KINS 165 (3) Foundations of Kinesiology  
ZOOL 113 (4) Human Physiology  
ZOOL 270 (4) Human Anatomy

### Upper Division

- KINS 379 (4) Exercise Physiology  
KINS 386 (4) Structural Kinesiology  
KINS 474 (3) Psychology of Sport &  
Exercise  
KINS 483 (3) Evaluation Techniques in  
Kinesiology  
KINS 484 (3) Motor Development/  
Motor Learning  
KINS 492 (3) Senior Seminar in  
Kinesiology

**\*Students in the Pre-Physical Therapy concentration must take BIOL 105.**

Students in the Exercise Science/Health Promotion or Physical Education Teaching concentrations may take BIOL 104 or BIOL 105.

## Concentrations (33-38 units)

Complete **one** of the following concentrations to fulfill the requirements of the major:

## Exercise Science/Health Promotion Concentration (33 units)

Prepare for careers in adult fitness; cardiac rehabilitation; strength and conditioning; corporate, community, and commercial health/fitness programs; and for graduate study in exercise science/exercise physiology. The curriculum also helps to prepare students to sit for recognized professional certification examinations offered by the American College of Sports Medicine and the National Strength and Conditioning Association.

Kinesiology Core: 35-36 units + Exercise Science Health Promotion Concentration 33 units = 68-69 units for the major.

### Lower Division

HED 231 (3) Basic Human Nutrition

### Upper Division

- KINS 325 (2) Health Related Exercise, **or**  
KINS 339 (2) Group Exercise  
Instruction, **or**  
2 units of PE courses.  
KINS 456A (4) Fitness Assessment &  
Exercise Programming  
KINS 456B (4) Fitness Assessment &  
Exercise Programming  
KINS 460 (1) Human Performance Lab  
Techniques  
KINS 482 (7) Internship in Kinesiology

## Emphases (12 units)

Complete coursework selected in consultation with and approval of major advisor. Suggested coursework includes, but is not limited to:

### Exercise Science Emphasis

- KINS 425 (3) Strength & Conditioning  
HED 342 (3) Nutrition for Athletic  
Performance

Select 6 units from KINS 480/580, 600-level courses and/or courses from the following Health Promotion Emphasis.

### Health Promotion Emphasis

In consultation with an advisor, students may select courses that qualify them to sit for the Certified Health Education Specialist (CHES) examination.

- HED 342 (3) Nutrition for Athletic  
Performance  
HED 344 (3) Weight Control

HED 345	(3) Health Messaging & Mass Media
HED 388	(3) Community Based Health Promotion Programs
HED 390	(3) Design & Implementation of Health Promotion Programs
HED 392	(3) Community & Population Health
HED 446	(3) Optimal Bone & Muscle Development
KINS 447	(3) Pharmacology & Ergogenic Aids

### Physical Education Teaching Concentration (31 units)

Prepare to teach physical education in junior high and high school. (For information on the preliminary teaching credential, see Education. See the program listing for Adapted Physical Education for credential information.)

Graduates also enter careers as intramural directors, health spa instructors, coaches, recreational directors, sports program directors, and camp directors.

In addition to core academic courses, students enroll in activity courses which help them develop fitness and performance skills. Humboldt's Human Performance Laboratory offers modern equipment. Other facilities include two gymnasia, an indoor pool, an all-weather track, cross-country trails, a field house, weight room, and stadium.

Kinesiology core (35-36 units) + Physical Education Teaching Concentration (31 units) = 66-67 units for the major.

### Concepts of Teaching (14 units)

KINS 311	(2) Concepts of Teaching Aquatics
KINS 313	(2) Concepts of Teaching Dance
KINS 315	(2) Concepts of Teaching Dynamic Movement
KINS 325	(2) Health-Related Exercise
KINS 327	(3) Games Concepts 1
KINS 329	(3) Games Concepts 2

### Additional Requirements (17 units)

REC 302	(3) Inclusive Recreation (DCG-d)
HED 405	(3) School Health Programs
KINS 384	(3) Curriculum & Instructional Strategies in Physical Education
KINS 385	(3) Adapted Physical Education
KINS 475	(3) Elementary School Physical Education
KINS 486	(2) Theory of Coaching

**Please note:** Degree requirements listed above do not include the professional education courses required for a teaching credential. Students earning this degree may waive CSET assessments before entering the credential program. Before applying to the secondary education credential program, students must meet the prerequisite of 45-hours early field experience or enroll in KINS 490.

### Pre-Physical Therapy Concentration (38 units)

Careers in the health care industry are increasing and completion of this concentration provides the academic requirements necessary to enter a graduate program for physical therapy or other health professions such as occupational therapy, nursing, physician assistant programs, medical school, or prosthetics and orthotics. Upper division electives built into the curriculum (upon consultation with and approval of their advisor) allow students the flexibility to take additional classes required for the graduate program(s) they are interested in attending.

Students also have the opportunity to gain more knowledge and experience in the physical therapy (and related) fields through a practica experience. During these placements in local physical therapy clinics and hospitals, students learn the basic skills to provide patient care and the essentials of evidence-based practice alongside physical therapists. In addition to being immersed in the field and accumulating observational hours needed to apply to graduate programs, students also attend presentations by current graduate students, physical therapists, and other health professionals, as well as workshops to help students' preparation for applying to graduate school.

Kinesiology core (36 units) + Pre-Physical Therapy Concentration (38 units) = 74 units for the major. (15 units double-count for LD GE requirements).

### Lower Division (27 units)

CHEM 109	(5) General Chemistry I
CHEM 110	(5) General Chemistry II
PHYX 106 <sup>‡</sup>	(4) College Physics: Mechanics & Heat
PHYX 107	(4) College Physics: Electromagnetism & Modern Physics
PSYC 104	(3) Introduction to Psychology
SOC 104	(3) Introduction to Sociology
STAT 108	(3) Elementary Statistics, <b>or</b>

<sup>‡</sup> Course has a prerequisite of MATH 101T (3) or MATH 102 (4)

STAT 108i	(3) Elementary Statistics with Integrated Support [Coreq: STAT 8]
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### Upper Division (11 units)

PSYC 438	(3) Dynamics of Abnormal Behavior; <b>plus</b> (8) Upper-Division Major Electives
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### REQUIREMENTS FOR THE MINORS

#### Minor in Health Education

**Total units in the minor:** 20  
Please consult the department chair for current requirements.

#### Minor in Kinesiology

**Total units in the minor:** 20  
Please consult the department chair for current requirements.

### MASTER OF SCIENCE DEGREE IN KINESIOLOGY

Graduates are prepared for careers in a wide range of professional roles that include worksite health promotion, clinical exercise physiology, cardiac rehabilitation, commercial fitness, public/private or non-profit health agencies, obesity/diabetes and heart disease prevention and treatment, teaching/coaching, independent research in a field of specialization, or continued graduate study at doctoral granting institutions. The curriculum and coursework in the Kinesiology MS degree program is designed to meet the mission of preparing students to be leaders in the fields of physical activity, health, and disease prevention and treatment. The common theme that binds us together is the study of physical activity and relationships with health and human performance.

### The Program

Students completing this program will have demonstrated the ability to:

- apply advanced concepts and theoretical constructs in kinesiology
- design and implement research in kinesiology
- critically analyze, evaluate, and synthesize the scientific literature in kinesiology
- synthesize and present data relevant to specialization areas within kinesiology
- interpret, evaluate, and apply the scientific literature in kinesiology to promote health and optimize performance among diverse populations.

### Program Admission Requirements

Applicants must submit the names of three

references, including contact information, and a statement of intent with their application. Two admission options are available:

#### **Postbaccalaureate**

In addition to Humboldt State University requirements, the Department of Kinesiology and Recreation Administration requires the following criteria be met for admission to the program as a classified graduate student:

- a bachelor's degree in Kinesiology or Exercise Science from an accredited institution, or equivalent. Students may be required to complete foundational coursework depending on their selected graduate program of study.

- a minimum undergraduate grade-point average (GPA) of 2.75 in the last 60 semester units (a 3.00 GPA is preferred).

- completion of the Graduate Record Examination (GRE) for verbal reasoning (148 minimum), quantitative reasoning (140 minimum), and analytical writing (3.5 minimum) must be submitted as part of the application process prior to admission.

A student may be conditionally admitted to the program if:

- The undergraduate degree is in a field other than Kinesiology or Exercise Science. Students will be required to complete 12-15 units of foundational coursework as approved by the graduate program coordinator. These courses must be satisfactorily completed with a grade of B- or better.

- The GRE scores or GPA are below the required minimum.

#### **Four plus One (4+1) Program (pre-baccalaureate)**

A student can apply in the junior year after completion of at least 24 units of undergraduate coursework in Kinesiology, with a GPA of 3.25 or higher in KINS coursework.

#### **International Student Addendum**

International students must achieve a minimum TOEFL score of 550 (213 on computer-based test; 80 on internet-based test) that was received within two years of applying to HSU. The score must be sent to us directly by the Educational Testing Service (ETS); **or**

a minimum IELTS score of 6.5 that was received within two years of applying to HSU. The score must be sent to us directly by the English Language Testing System (IELTS).

## **REQUIREMENTS FOR THE DEGREE (Master of Science)**

*For a description of degree requirements to be fulfilled in addition to those listed below see, "The Master's Degree" section of the catalog, pp. 83-84.*

### **Unit Requirement**

**Total units for the degree: 33**

### **Required Courses (9 units)**

Complete the following courses:

KINS 610 (3) Statistics for Kinesiology

KINS 635 (3) Research Methods in Kinesiology

KINS 695 (3) Directed Field Experience, **or**

KINS 699 (3) Independent Study

### **In-Depth Area of Study (9 units)**

Students select an in-depth area of study in consultation with a major advisor. Courses should support the student's area of research and professional goals. These courses should be graduate level (500-699), with allowance for upper division level courses (300-499) on a case-by-case basis.

### **Directed Elective Courses (9 units)**

Courses should support the student's professional goals. These courses should be graduate level (500-699), with allowance for upper division level courses (300-499) on a case-by-case basis.

### **Capstone (6 units)**

*Complete one of the following options.*

#### **Thesis/Project Option**

Recommended for those planning to attend a doctoral/advanced professional program or preparing for a research-based career. An oral defense of the thesis/project is required.

KINS 690 (1-6) Thesis Writing Seminar

#### **Comprehensive Exam Option**

Students in this option will complete a comprehensive written exam based on the focus of the curriculum.

KINS 691 (0) Comprehensive Exam **and**

Students in this option will complete an **additional 6 units** of coursework.



# LEADERSHIP STUDIES [INTERDISCIPLINARY STUDIES]

**Bachelor of Arts degree  
with an Interdisciplinary Studies  
major** — Concentration in Leadership  
Studies\*

## College of Extended Education & Global Engagement

humboldt.edu/leadership  
707-826-3769  
leadership@humboldt.edu

### The Program

The Leadership Studies Bachelor's degree-completion program is designed for students who have completed 60 units of undergraduate coursework (see transfer requirements below) and want to gain foundational leadership skills in: planning, critical thinking, sustainability, and organizational transformation. All courses for the major are fully online. Leadership Studies is offered via self-support through the College of Extended Education & Global Engagement. Self-support programs are subject to program specific fees.

For more information about the program contact Extended Education at 707-826-3769 or visit [humboldt.edu/leadership](http://humboldt.edu/leadership).

### Mission

The Leadership Studies program offers access to a degree through a dynamic public online education. Following an interdisciplinary approach, students develop personal and professional skills to transform self and enrich communities. Graduates realize their competencies and inspiration toward positively enhancing their careers and lives.

### Program Learning Outcomes

- Students completing this major will have demonstrated the ability to:
  - Analyze and assess an organization's systems of power and privilege.
  - Develop and present long-term strategic plans that promote sustainability.
  - Collect, analyze, and effectively use quantitative and qualitative data using an evidence-based framework.
  - Develop and implement leadership skills to enhance organizational effectiveness.
  - Communicate with diverse groups and be able to evaluate/integrate the perspective of others when seeking solutions to leadership.

### Upper Division Transfer Requirements

To be considered an Upper Division Transfer student, you must have:

- Completed a minimum of 60 semester or 90 quarter units of transferable coursework (if transferring from a community college, it is advised to complete 70 semester units or 105 quarter units as allowed);
- have an overall college GPA of at least 2.00;
- be in good standing at the last college or university attended. In simple terms, "good standing" means you are eligible to re-enroll at your last college or university;
- have completed 10 general education courses (30 semester units or 45 quarter units) of basic skills courses, with a grade of C- or better, and, specifically, four courses completed in the following GE breadth areas: A: Written Communication, A: Oral Communication, A: Critical Thinking, and B: Mathematics/Quantitative Reasoning.

### REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

#### Required Courses (30 units)

LDRS 311	(3) Foundations of Leadership
LDRS 321	(3) Data Driven Leadership
LDRS 331	(3) Leadership Communication
LDRS 341	(3) Strategic Planning & Forecasting
LDRS 351	(3) Project Implementation/Evaluation
LDRS 411	(3) Managing Employees/Stakeholders
LDRS 421	(3) Strategic Sustainability
LDRS 431	(3) Technology & Leadership
LDRS 441	(3) Developing Dynamic Organizations
LDRS 451	(3) Capstone in Leadership



### Self-Support Program Fees

The Interdisciplinary Studies: Leadership Studies program is offered through self-support mode by the College of Extended Education & Global Engagement.

Self-support programs are subject to program specific fees. Fee information is available on the College of Extended Education & Global Engagement website: [extended.humboldt.edu](http://extended.humboldt.edu)

This major is not offered as a state-supported program and is not an option for a change of major.

# LIBERAL STUDIES / ELEMENTARY EDUCATION

**Bachelor of Arts degree  
with a major in Liberal Studies —  
concentration in Elementary Education**

## **Liberal Studies Elementary Education Office**

Harry Griffith Hall 202A  
707-826-3752  
humboldt.edu/lsee

### **Program Leaders**

Marisol Ruiz Gonzales, Ph.D.  
707-826-5822  
marisol.ruiz@humboldt.edu

Sara K. Sterner, Ph.D.  
sara.sterner@humboldt.edu  
707-826-5873

### **Program Advisor**

Tyler Bradbury  
707-826-3752  
tyler.bradbury@humboldt.edu

## **The Program**

The Liberal Studies Elementary Education program provides focused, hands-on university coursework aligned with clinical practice in elementary schools that allows undergraduate students who complete the Integrated Credential Pathway\*\* to earn a bachelor's degree, and to be recommended for a Multiple Subject Credential in four years. A Non-Integrated Pathway is available for students who wish to earn a bachelor's degree only.

Students completing this program will have:

- demonstrated an ability to work effectively with diverse students, parents, colleagues, staff, and others in the community;
- developed and maintain safe, positive, and productive educational environments;
- used research-based practice to inform their work;
- demonstrated a coherent theoretical framework of learning and human development that supports reflection on their practice;
- collaborated on efforts to improve education opportunities for all students.

Additionally, candidates in the LSEE Program acquire the knowledge, skills, experiences, and perspectives necessary to:

- demonstrate subject matter content knowledge aligned to the California K-8 Content standards in language arts, mathematics, science, history /social science, health, physical education, and the visual and

performing arts as outlined in the Standards of Program Quality and Effectiveness for the Subject Matter Requirement for the Multiple Subject Teaching Credential

- apply pedagogical content knowledge to teach specific subjects clearly and knowledgeably and to effectively integrate pedagogical content knowledge and skill across disciplines in lesson design and implementation.

The carefully sequenced academic plan provides:

- excellent preparation to teach elementary school subjects including language arts, mathematics, science, history /social science, health, physical education, visual and performing arts
- courses that focus on 21st century teaching approaches
- a series of structured classroom experiences with students from kindergarten to 8th grade
- dedicated faculty and advisors
- support to complete university and credential requirements including subject matter competency

*Students must complete the Certificate of Clearance from the California Commission on Teacher Credentialing, and provide proof of tuberculin clearance and rubella immunization to participate in the clinically-based LSEE classes that begin in the freshman year.*

## **REQUIREMENTS FOR THE MAJOR**

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### **Required Units**

**Total units in the major: 112**  
**Total units required for the degree: 120**

### **Special Grade Requirement**

Students must earn a minimum grade of C- in all major requirements.

### **General Education Notes**

Students who complete the LSEE Lower Division Core will have met Lower Division GE and American Institutions requirements. Students who change out of the LSEE major are encouraged to contact the Office of the Registrar or the Academic & Career Advising Center regarding completion of degree requirements.

### **Lower Division (58 units)**

*Complete the following courses:*

BIOL 104	(3) General Biology
COMM 100	(3) Fundamentals of Speech Communication
CD 209	(3) Middle Child Development
COMM 103	(3) Critical Listening & Thinking
CRGS 108	(3) Power/Privilege: Gender & Race
EDUC 285	(3) Technology Skills for Educators
ENGL 104*	(3) Accelerated Composition & Rhetoric
ENGL 105	(3) Literature, Media & Culture
GEOG 109	(4) General Geology (or other Lower Division GE Area B: Physical Universe course)
HIST 104	(3) Western Civilization to 1650
HIST 110	(3) United States History to 1877
LSEE 101	(4) Foundations of Teaching
LSEE 211	(4) Developmental Literacy
LSEE 212	(4) Language and Literacy
PSCI 110	(3) American Government

*Complete one of the following:*

ES 106	(3) Introduction to Black Studies
ES 107	(3) Chicano/Latin Lives
WS 107	(3) Woman, Culture, History

*Complete one of the following:*

TA 104	(4) Story Through Word & Image
DANC 103	(3) Modern/Contemporary I
DANC 104	(3) Modern/Contemporary II

*Complete one of the following:*

MATH 103	(3) Mathematics as a Liberal Art
MATH 103i	(3) Mathematics as a Liberal Art with Integrated Support [Coreq: MATH 3]
MATH 108	(3) Critical Thinking in Mathematics

### **Upper Division (31)**

*Complete the following courses:*

ART 358	(3) Art Structure
LSEE 308	(4) Algebra, Geometry, and

\*or ENGL 102 & ENGL 103 Composition & Rhetoric A & B or ENGL 104S

\*\*Subject to WSCUC & CSU Office of the Chancellor approval

	Data in the Elementary Classroom
LSEE 313	(4) Science for Elementary Education
LSEE 315	(4) Social Science for Elementary Education
LSEE 316	(4) Language Arts for Elementary Education
LSEE 317	(4) Number Sense & Operations in Elementary School Math
LSEE 333	(4) English Language & Bilingual Development
LSEE 377	(4) Education of Exceptional Individuals

### **Integrated Credential Senior Year Pathway (35 units) \* \***

#### **Program Admission Requirements**

Admission into the Senior Year Integrated Credential Pathway requires:

- An overall GPA at or above 2.67 in all baccalaureate course work.
- Junior status (earned 60 semester units)
- Satisfactory completion of all program core courses and other requirements, including passing the Graduation Writing Proficiency Exam (GWPE).
- Pass California Subject Examination for Teachers (Test Code 133 and 134)
- Pass with a C- or better U.S. Constitutions course (PSCI 110, PSCI 159, or PSCI 410), or the U.S. Constitutions Test administered by the County Office of Education.
- Current CPR certification from the American Heart Association Course B or C, American Red Cross Community CPR, or equivalent training in adult, child and infant CPR.
- Proof of tuberculin clearance (chest x-ray or skin test) and rubella immunization
- A Certificate of Clearance from the California Commission on Teacher Credentialing.
- Verification of passing a basic skills exam (Details are available on the School of Education website [humboldt.edu/education](http://humboldt.edu/education))
- Verification of passing the CSET in Multiple Subjects

#### **Integrated Credential Pathway Requirements**

The LSEE Integrated Credential Pathway program includes courses needed to apply to and complete the teacher credential program. Upper division GE Area C and D requirements are fulfilled by completion of the following coursework.

*The following credential pathway professional education courses must be completed with no grade lower than a C-, and a minimum GPA of 3.00 must be maintained.*

LSEE 413	(4) Integrated Elementary Science & Mathematics Methods I
LSEE 414	(4) Integrated Elementary Science & Mathematics Methods II
LSEE 415	(4) Integrated Art, Language Arts and Social Studies I
LSEE 416	(4) Integrated Art, Language Arts & Social Studies II
LSEE 421	(4) Critical Multicultural Education
LSEE 423	(4) School, Student & Social Development
LSEE 475	(4) Health & Physical Education
MUS 322	(3) Music in the K-8 Classroom

#### **Capstone**

LSEE 455	(4) Senior Credential/ Capstone
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#### **Additional Requirements**

Pay professional liability insurance fee, required by the CSU and local school districts prior to student teaching (\$20)

Pass the Reading Instruction Competence Assessment (RICA)

Pass the Teacher Performance Assessment (edTPA)

### **Non-Integrated Senior Year Pathway (23 units)**

This pathway is designed for students who wish to earn a bachelor's degree only or have not met the credential admission requirements.

*Complete core courses, plus the following:*

LSEE 443	(4) Action Research I
LSEE 444	(4) Action Research II
LSEE 453	(3) Senior Seminar I
LSEE 454	(3) Senior Seminar II

**and**

9 units in one of the following areas: child development, creative dramatics, English as a second language, music, physical education, history/ social science, mathematics, psychology, Spanish, studio art or science.



#### **Programs Leading to Licensure & Credentialing**

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or taxpayer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees or any associated costs to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Office of Academic Affairs, Siemens Hall 216, 707-826-3722.

\* \*This program is subject to WSCUC & CSU Chancellor's Office approval

# MATHEMATICS

## **Bachelor of Arts degree with a major in Mathematics**

**Bachelor of Arts degree  
with a major in Mathematics —**  
concentrations in Applied Mathematics,  
Mathematics Education

## **Minor in Mathematics**

## **Minor in Applied Mathematics**

See also the minor in Applied Statistics.

## **Department Chair**

Bori Mazzag, Ph.D.

## **Department of Mathematics**

Behavioral & Social Sciences 320  
707-826-3143  
humboldt.edu/math

## **The Program**

Mathematics students at HSU find an active and supportive atmosphere that provides preparation for mathematics-related careers and mentorship for graduate studies. The department offers a variety of scholarships, need-based and merit-based, for mathematics majors at every level and including transfer students. Students have access to several campus computer labs including one dedicated to mathematical applications. There are many activities outside the classroom including: a weekly Mathematics Colloquium series; the endowed Kieval Mathematics Lecture every semester; a variety of competitions, from our local Integration Bee to the International Mathematical Contest in Modeling; and a very active Mathematics Club. Mathematics is challenging, rewarding, and fun.

Mathematics majors may enter the workforce in a wide variety of positions. Potential careers include: mathematics consultant, statistician, computer programmer, actuary, mathematician, analyst [systems analyst, statistics methods analyst, financial investment analyst, economic analyst...], teacher, demographer.

Courses in calculus, linear algebra, differential equations, computer programming, analysis and statistics comprise the program's core. Humboldt State offers several computer laboratories with a variety of computers, including mainframe, mini, and microcomputers.

An active Math Club meets weekly and sponsors various activities and talks. A special scholarship fund for outstanding

mathematics students was established by professor emeritus Harry S. Kieval. Several other scholarship opportunities are available to Mathematics majors.

It is expected that each graduate of this program will be able to:

- reason mathematically and statistically
- solve complex problems using mathematics and statistics
- communicate mathematical and statistical ideas
- evaluate mathematical and statistical work

## **Preparation**

Take mathematics courses every year in high school. Creative writing, art, music, and computer programming are also helpful.

## **REQUIREMENTS FOR THE MAJOR**

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

## **Unit Requirements**

<b>Lower division core units:</b>	<b>22</b>
<b>Upper division/concentration units:</b>	<b>26</b>
<b>Units required for the major:</b>	<b>48</b>
<b>Units required for the degree:</b>	<b>120</b>

## **Special Grade Requirement**

A minimum grade of C- is required for all courses in the major [all concentrations].

## **Lower Division Core Courses (22 units)**

The following core courses are required for all majors.

CS 111	(4) Computer Science Foundations I, or an approved course in computer programming
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MATH 109	(4) Calculus I
MATH 110	(4) Calculus II
MATH 210	(4) Calculus III
MATH 240	(3) Introduction to Mathematical Thought
MATH 241	(3) Elements of Linear Algebra

## **Mathematics (26 units)**

### **Upper Division Courses**

Complete the following courses to fulfill the requirements of the mathematics major (no concentration).

MATH 313	(4) Ordinary Differential Equations
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MATH 316	(4) Real Analysis I
STAT 323	(4) Probability & Statistics
MATH 343	(4) Introduction to Algebraic Structures
MATH 344	(3) Linear Algebra
MATH 416	(3) Real Analysis II, or
MATH 443	(3) Advanced Algebraic Structures

Plus an approved program of upper division and graduate math courses to bring the total units at or above the 300 level to 26.

## **Applied Mathematics Concentration (26 units)**

This concentration provides a theoretical foundation and skills necessary to apply mathematics or mathematical computing to problems encountered in other disciplines.

See lower division core courses.

## **Upper Division**

MATH 313	(4) Ordinary Differential Equations
MATH 316	(4) Real Analysis I
STAT 323	(4) Probability & Statistics
MATH 351	(4) Introduction to Numerical Analysis
MATH 361	(4) Introduction to Mathematical Modeling
MATH 315	(4) Advanced Calculus, or
MATH 344	(3) Linear Algebra

Plus an approved program of upper division and graduate math courses to bring the total units at or above the 300 level to 26.

## **Mathematics Education Concentration (26 units)**

This concentration prepares students primarily for teaching math in junior high school and high school. (For information on preliminary and professional clear teaching credentials, see Education.)

Degree requirements listed here do not include professional education courses required for the credential.

Students earning this degree may waive CSET assessments before entering the credential program. Before applying to the secondary education credential program, students must meet the prerequisite of 45 hours early field experience or enroll in SED 210/SED 410.

See lower division core courses.

### Upper Division

- MATH 301 (3) Mathematics & Culture: Historical Perspective\*, **or**  
MATH 401 (3) History of Mathematics I  
MATH 340 (3) Number Theory  
MATH 343 (4) Introduction to Algebraic Structures  
MATH 370 (3) School Mathematics from Advanced Viewpoint I  
MATH 371 (3) Geometry  
MATH 470 (3) School Mathematics from an Advanced Viewpoint II  
STAT 323 (4) Probability & Statistics

Students also should take:

- sufficient units in approved upper division mathematics courses to bring the total to 26 — recommended:  
MATH 316 (4) Real Analysis I  
MATH 474 (3) Graph Theory  
MATH 481 (1) Workshop in Tutoring Mathematics
- an approved, coherent program of not less than 8 units in a field of study in which mathematics is applicable (see advisor)
- strongly recommended:  
PHIL 100 (3) Logic  
ART 105B (3) Fundamentals of Drawing

### REQUIREMENTS FOR THE MINORS

#### Mathematics Minor

Total units required for the minor: **28**

#### Lower Division (18 units)

- MATH 109 (4) Calculus I  
MATH 110 (4) Calculus II  
MATH 210 (4) Calculus III  
MATH 240 (3) Introduction to Mathematical Thought  
MATH 241 (3) Elements of Linear Algebra

#### Upper Division (10 units)

- MATH 340 (3) Number Theory, **or**  
MATH 343 (4) Introduction to Algebraic Structures

*Complete approved courses to bring the total to 10 upper division units.*

### Applied Mathematics Minor

Total units required for the minor: **22-29**

#### Lower Division (12-19 units)

- STAT 108 (3) Elementary Statistics, **or**  
STAT 108i (3) Elementary Statistics with Integrated Support [Coreq: STAT 8], **or**  
STAT 109 (4) Introductory Biostatistics

*Complete either:*

- MATH 109 (4) Calculus I  
MATH 110 (4) Calculus II  
MATH 210 (4) Calculus III  
MATH 241 (3) Elements of Linear Algebra

#### OR

- MATH 105 (3) Calculus for the Biological Sciences & Natural Resources  
MATH 215 (3) Multivariate Calculus for the Biological Sciences & Natural Resources  
MATH 241 (3) Elements of Linear Algebra

#### Upper Division (10 units)

- MATH 313 (4) Ordinary Differential Equations, **or**  
MATH 361 (4) Introduction to Mathematical Modeling

*Complete approved courses to bring the total to 10 upper division units.*

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\* MATH 301 does not count toward 26 units of 300-level (or above) courses.

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# MULTICULTURAL QUEER STUDIES MINOR

## Minor in Multicultural Queer Studies

See also the *Multicultural Queer Studies Emphasis within the Critical Race, Gender and Sexuality Studies (CRGS) major*.

### Department Chair

Kim Berry, Ph.D.  
Behavioral & Social Sciences 246

### Department of Critical Race, Gender and Sexuality Studies

Behavioral & Social Sciences 206  
707-826-4329, fax 826-4320  
crgs.humboldt.edu

### The Program

Students completing this minor will have demonstrated the ability to:

- use intersectional analysis to examine social issues
- explain prominent debates in queer theory
- link theory to practice

The minor in Multicultural Queer Studies provides a rich mixture of interdisciplinary courses and community engagement and leadership opportunities. Students draw on classes from critical race, gender and sexuality studies, women's studies, ethnic studies, political science, psychology, education, sociology, theater arts, English, and other disciplines to study political and cultural issues related to sexual identity, sex, gender identity, and sexuality in a multicultural, multiracial, and multidisciplinary context.

All minors gain an understanding of the intersections of race, gender, sexuality and class through CRGS 108. Through engagement with debates in queer theory, students explore the workings of power and the dynamics of resistance. Minors take another 7 units in approved Multicultural Queer Studies elective classes. Finally, the minor has a 2- to 3-unit component providing field-based opportunities to grapple with issues of gender and sexual identity in a political, service, or cultural context. Sites for internships might include the Raven Project, Peer Education Program for the Consent Project or Health & Wellness Program, MultiCultural Center, North Coast Rape Crisis Team, Planned Parenthood, Humboldt Domestic Violence Services, and local high-school-based gay-straight alliances.

This minor can be particularly useful for those planning careers in education, social work, human services, public health, law, psy-

chology, journalism and media, social justice activism, and community development.

### REQUIREMENTS FOR THE MINOR

Total units required for the minor: 15-17

#### Introduction

CRGS 108 (3) Power/Privilege: Race, Class, Gender & Sexuality

#### Queer Theory

Complete one of the following courses.

CRGS 430 (3-4) "Queer" Across Cultures  
ENGL 360 (4) Special Topics in Literature when offered as Queer Theory

#### Community Engagement and Leadership

Complete one of the following courses.

CRGS 313/EDUC 313 (3) Community Activism  
CRGS 482 (2-3) Internship Course

Consult with the advisor for approval for community engagement courses not on this list.

#### Elective Courses

Complete 7 units from the following course list. Consult with the advisor for approval of special topics courses not on this list.

CRGS 235 (1) Act to End Sexualized Violence  
CRGS 321 (3) Trans\* Lives and Theory  
CRGS 430 (3-4) "Queer" Across Cultures (when not taken to fulfill "Queer Theory" requirement above)  
ENGL 360 (4) Special Topics in Literature when offered as Queer Theory and (when not taken to fulfill "Queer Theory" requirement above)  
ES 336/WS 336/ENGL 336 (4) American Ethnic Literature when offered as Multi-cultural Queer Narratives  
FILM 465 (4) Film Seminar when offered as Queer Movies  
PSYC 236 (1) Choices & Changes in Sexuality  
PSYC 437 (3) Sexual Diversity  
WS 316/SOC 316 (4) Gender & Society  
WS 318/EDUC 318 (3) Gay & Lesbian Issues in Schools  
WS 350 (4) Health & Body Politics  
WS 436/PSYC 436 (3) Human Sexuality

WS 370 (3-4) Queer Women's Lives, or  
ENGL 360 (4) Special Topics in Literature when offered as Queer Women's Literature



# MUSIC

## Bachelor of Arts degree

**with a major in Music** — with the following concentrations:

- Composition
- Performance
- Music Studies
- Music Education

## Minor in Music

### Department Chair

Cindy Moyer, Ph.D.

### Department of Music

Music Complex 143  
707-826-3531  
music.humboldt.edu

## The Program

Students completing this program will have demonstrated:

- the ability to hear, identify, and work conceptually with the elements of music; rhythm, melody, harmony, and structure
- familiarity with and an ability to perform a wide selection of musical literature representing principal eras, genres, and cultural sources
- ability in performance areas appropriate to their needs, interest, and degree path.

For students wishing to pursue music as a career, the department is committed to helping:

- perfect skills as a performer or leader
- study the rich legacy and tradition of music literature and history
- identify, understand, and use the concepts which underlie and give order to the study of music
- prepare for graduate study or for a career in a music-related field.

The degree prepares performers, composers, and teachers. Some students prepare for advanced degrees in musicology, composition, and performance. Our graduates typically enjoy careers such as: instrumentalist, conductor, composer/arranger, music editor, critic, pianist, vocalist, disc jockey, studio teacher, accompanist, recording engineer, instrument repairer, copyist, or piano technician.

The department is committed to providing quality education directed to individual student needs. Students receive studio instruction in voice, piano, or instruments from highly qualified faculty who are active performers. Quality performance organizations (wind ensemble, symphony, chamber music ensembles, opera workshop, jazz

band, vocal jazz ensemble, combos, percussion ensemble, and calypso band) allow study of the finest musical literature.

The music complex features a 227-seat recital hall, a smart classroom, many practice rooms, computer labs, a tech shop, recording equipment, plus a large inventory of brass, woodwind, and string instruments. The music library contains one of the most comprehensive collections of chamber music on the West Coast.

Nationally recognized performing artists frequently visit Humboldt to perform as soloists with student ensembles. Guest artists offer master classes to students. Summer chamber music workshops provide valuable opportunities for the serious performer.

The department is accredited by the National Association of Schools of Music (NASM) 11250 Roger Bacon Dr., Suite 21, Reston, VI, 20190-5248, 703-437-0700.

## Preparation

Entering students find it beneficial to have a music background that includes private study and experience in performance organizations.

## REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

Music majors must participate in a performance ensemble each semester. Students who receive a scholarship from the music department must participate in at least two ensembles during each semester in which they receive the award, with one ensemble being assigned by the department. Most large ensembles require an audition, usually signified by IA (Instructor Approval) in the course description. Specific audition requirements are available from the ensemble's conductor/director.

All those taking studio lessons (majors, minors, nonmajors) will take a jury examination each semester. The complete policy is available from the department.

The music major consists of a 43-unit core (providing foundation courses in music theory, music history, and music performance) and four separate major concentrations.

All entering majors begin in the **music studies concentration**, emphasizing a liberal arts orientation with a broad view. It involves guid-

ed electives, requiring 11 additional units beyond the core, yielding a total of 54 units for the music studies major.

The **performance concentration** requires selection of a performing emphasis area (voice, piano, orchestral instrument, guitar) and a successful audition. A senior recital is required in all areas of emphasis. For students in the piano emphasis and guitar emphasis, a junior recital is also required. The vocal and piano emphases consist of 22 units beyond the core, yielding a total of 65 units for the major. The instrumental emphasis and guitar emphasis both consist of 18 units beyond the core, yielding a total of 61 units for the major.

The **composition concentration** gives a practical background in music composition with an emphasis on the use of music technology. Students must audition to enter this concentration. It requires 18 units beyond the core, yielding a total of 61 units for the major. A senior recital is also required.

The **music education concentration** prepares students to teach music in elementary, middle, and high schools. The department is vitally concerned with providing quality experiences to prepare future music educators. A broad spectrum of course offerings provides opportunities to learn all aspects of music education. Following graduation with a Bachelor of Arts in music education, students may be eligible to enter a professional preparation program leading to a music teaching credential. (For information on preliminary and professional clear teaching credentials, see the Education section of this catalog.)

Students in the music education concentration receive instruction in all instrumental areas, keyboard, and voice. They may choose from a wide variety of performance organizations — wind ensemble, choir, symphony, madrigals, chamber ensembles, opera workshop, jazz band, chorale, vocal jazz ensemble, and jazz combos. The high quality of these ensembles allows students to perform the finest of musical literature from a wide variety of historical eras and musical styles, while observing a conductor's effective rehearsal techniques that are vital for success as a teacher.

Entrance into the music education concentration involves four steps:

1. Complete an application, including questionnaire, available from the Music Department office.

- An audition demonstrating performance skills on the student's primary instrument or voice.
- An interview before a panel of faculty and local practitioners.
- A transcript evaluation by the Coordinator of Music Education. Courses are assigned based on the results of this evaluation regardless of courses completed at other institutions.

Prior to graduation, music education majors must take the Subject Matter Competency Exam. This comprehensive test, spread out over several days, is taken during the spring term prior to graduation. It includes competency tests in lesson planning, conducting, score reading and preparation, and performance on voice, piano, and selected orchestral instruments. Majors must also demonstrate proficiency in guitar. Detailed competency requirements are available in the department office.

### Unit Requirements

<b>Core units:</b>	<b>43</b>
<b>Concentration units:</b>	<b>11-32</b>
<b>Units required for the major:</b>	<b>54-74</b>
<b>Units required for the degree:</b>	<b>120</b>

### Core Courses (43 units)

The following core courses are required for all majors.

MUS 104	(3) Introduction to Music
MUS 106-107	(1) Ensembles* [4 semesters required]
MUS 110	(3) Fundamentals of Music
MUS 112	(1) Piano I
MUS 113	(1) Piano II
MUS 130	(1) Piano III
MUS 214	(3) Theory I
MUS 215	(3) Theory II
MUS 216	(1) Ear Training I
MUS 217	(1) Ear Training II
MUS 302	(3) Music in World Culture
MUS 314	(3) Theory III
MUS 315	(3) Theory IV
MUS 316	(1) Ear Training III
MUS 317	(1) Ear Training IV
MUS 330	(1) Piano IV
MUS 348	(3) Music History: Antiquity to 1750
MUS 349	(3) Music History: 1750 to Present
MUS 406-407	(1) Ensembles* [4 semesters required]

\* See separate list of specific ensemble requirements for each instrument, available from the Music Department.

### Concentrations (11-32 units)

Complete **one** of the following concentrations to fulfill the requirements of the major:

#### Music Studies Concentration (11 units)

Five semesters of group or individual applied instruction chosen from MUS 220 - MUS 237. (MUS 108, or MUS 109. MUS 108K and MUS 109K may not be used to fulfill this requirement.)

Complete 6 upper division elective units selected from the following:

MUS 301	(3) Rock: An American Music
MUS 305	(3) Jazz: An American Art Form
MUS 318	(2) Jazz Improvisation
MUS 319	(2) Elementary Music Methods
MUS 320	(3) Composition: Film Scoring
MUS 320B	(3) Composition: Jazz & Pop Arranging
MUS 323	(2) Jazz Pedagogy
MUS 324	(2) Contemporary Composition Techniques
MUS 326	(2) Counterpoint
MUS 334	(2) Fundamentals of Conducting
MUS 338	(3) Vocal & Instrumental Scoring
MUS 356	(2) Lyric Diction
MUS 360	(2) Music Technology: Midi & Finale
MUS 361	(2) Music Technology: Recording & Playback
MUS 391	(1) Piano Pedagogy (MUS 391L is not acceptable for credit)
MUS 392	(1) Vocal Pedagogy (MUS 392L is not acceptable for credit)
MUS 384	(2) Advanced Choral Conducting & Literature
MUS 387	(2) Advanced Instrumental Conducting & Literature
MUS 453	(2) Career Skills for Musicians

#### Performance Concentration (18-22 units)

Listed below are the four emphasis areas within the performance concentration.

#### Instrumental Emphasis (18 units)

MUS 222-236	(1) Studio Instruction [4 semesters.]
MUS 334	(2) Fundamentals of Conducting
MUS 406-MUS 407	(1) Performance Ensemble* [4 semesters.]
MUS 422-436	(1) Studio Instruction for Performance and Music Education [4 semesters.]

MUS 440 (0) Senior Recital

Complete 4 upper division elective units selected from the following:

MUS 305	(3) Jazz: An American Art Form
MUS 318	(2) Jazz Improvisation
MUS 319	(2) Elementary Music Methods
MUS 320	(3) Composition: Film Scoring
MUS 320B	(3) Composition: Jazz & Pop Arranging
MUS 323	(2) Jazz Pedagogy
MUS 324	(2) Contemporary Composition Techniques
MUS 326	(2) Counterpoint
MUS 334	(2) Fundamentals of Conducting
MUS 338	(3) Vocal & Instrumental Scoring
MUS 360	(2) Music Technology: Midi & Finale
MUS 361	(2) Music Technology: Recording & Playback
MUS 384	(2) Advanced Choral Conducting & Literature
MUS 387	(2) Advanced Instrumental Conducting & Literature
MUS 453	(2) Career Skills for Musicians

#### Guitar Emphasis (18 units)

MUS 237	(1) Studio Guitar [4 semesters.]
MUS 334	(2) Fundamentals of Conducting
MUS 340	(0) Junior Recital
MUS 406-MUS 407	(1) Performance Ensemble* [4 semesters.]
MUS 437	(1) Studio Guitar for Performance and Music Education [4 semesters.]
MUS 440	(0) Senior Recital

Complete 4 upper division elective units selected from the following:

MUS 305	(3) Jazz: An American Art Form
MUS 318	(2) Jazz Improvisation
MUS 319	(2) Elementary Music Methods
MUS 320	(3) Composition: Film Scoring
MUS 320B	(3) Composition: Jazz & Pop Arranging
MUS 323	(2) Jazz Pedagogy
MUS 324	(2) Contemporary Composition Techniques
MUS 326	(2) Counterpoint
MUS 334	(2) Fundamentals of Conducting
MUS 338	(3) Vocal & Instrumental Scoring
MUS 360	(2) Music Technology: Midi & Finale

- MUS 361 (2) Music Technology:  
Recording & Playback
- MUS 384 (2) Advanced Choral  
Conducting & Literature
- MUS 387 (2) Advanced Instrumental  
Conducting & Literature
- MUS 453 (2) Career Skills for Musicians

**Piano Emphasis (18 units)**

- MUS 220 (1) Studio Piano [4 semesters.]
- MUS 334 (2) Fundamentals of  
Conducting
- MUS 340 (0) Junior Recital
- MUS 353 (1) Accompanying  
[4 semesters.]
- MUS 385P (1) Performance Seminar  
[2 semesters.]
- MUS 391 (1) Piano Pedagogy
- MUS 391L (1) Piano Pedagogy Lab
- MUS 420 (1) Studio Piano for  
Performance and Music  
Education [4 semesters.]
- MUS 440 (0) Senior Recital

**Vocal Emphasis (22 units)**

- MUS 221 (1) Studio Voice [4 semesters.]
- MUS 334 (2) Fundamentals of  
Conducting
- MUS 356 (2) Lyric Diction
- MUS 385V (1) Performance Seminar  
[4 semesters.]
- MUS 392 (1) Vocal Pedagogy
- MUS 392L (1) Vocal Pedagogy Lab
- MUS 406-407 (1) Performance  
Ensemble\* [4 semesters.]
- MUS 421 (1) Studio Voice for  
Performance and Music  
Education [4 semesters.]
- MUS 440 (0) Senior Recital

**Composition Concentration  
(18-19 units)**

- MUS 220-MUS 237 (1) Studio  
Instrument or Voice  
Instruction [2 semesters.]
- MUS 320 (3) Composition: Film  
Scoring, **or**
- MUS 320B (3) Composition: Jazz & Pop  
Arranging
- MUS 324 (2) Contemporary  
Composition Techniques
- MUS 326 (2) Counterpoint
- MUS 338 (3) Vocal & Instrumental  
Scoring

\* See separate list of specific ensemble requirements for each instrument, available from the Department of Music

\*\*An additional semester of MUS 324 or MUS 238 may be substituted for one of the four semesters of MUS 438 with advisor approval.

- MUS 360 (2) Music Technology:  
Midi & Finale
- MUS 438 (1) Studio Composition Adv.  
[4 semesters]\* \*\*
- MUS 440 (0) Senior Recital

*Additional recommended electives:*

- MUS 220/MUS 420 (1) Studio Piano  
Instruction
- MUS 318 (2) Jazz Improvisation
- MUS 320 (3) Composition: Film Scoring  
(if not taken above)
- MUS 320B (3) Composition: Jazz & Pop  
Arranging (if not taken above)
- MUS 320C (3) Composition: Electronic  
Music
- MUS 334 (2) Fundamentals of  
Conducting
- MUS 370F (.5) Woodwind Techniques I
- MUS 370T (.5) String Techniques I
- MUS 371F (.5) Woodwind Techniques II
- MUS 371T (.5) String Techniques II
- MUS 372B (.5) Brass Techniques I
- MUS 372P (.5) Percussion Techniques I
- MUS 373B (.5) Brass Techniques II
- MUS 373P (.5) Percussion Techniques II
- MUS 453 (2) Career Skills for  
Musicians

**Music Education Concentration  
(31-32 units)**

- MUS 109V (1) Voice  
[Vocal emphasis students  
must take MUS 356 (2)  
Lyric Diction instead]
- MUS 220-MUS 237 (1) Studio  
Instruction [4 semesters]
- MUS 319 (2) Elementary Music  
Methods
- MUS 323 (2) Jazz Pedagogy
- MUS 334 (2) Fundamentals of  
Conducting
- MUS 338 (3) Vocal & Instrumental  
Scoring
- MUS 360 (2) Music Technology:  
Midi & Finale
- MUS 370F (.5) Woodwind Techniques I
- MUS 370T (.5) String Techniques I
- MUS 371F (.5) Woodwind Techniques II
- MUS 371T (.5) String Techniques II
- MUS 372B (.5) Brass Techniques I
- MUS 372P (.5) Percussion Techniques I
- MUS 373B (.5) Brass Techniques II
- MUS 373P (.5) Percussion Techniques II
- MUS 384 (2) Advanced Choral  
Conducting & Literature
- MUS 387 (2) Advanced Instrumental  
Conducting & Literature
- MUS 420-MUS 437 (1) Studio  
Instruction for Performance  
& Music Education  
[4 semesters]
- MUS 455 (3) Secondary Music Methods

**NOTE:** Courses listed above satisfy requirements for the music education major, but not for a teaching credential. Students must be admitted to the HSU Secondary Education Program in order to begin taking the professional education courses needed to earn a California teaching credential. Completing the requirements of the music education major obviates the need to take the CSET exam for entrance to a credential program at most universities. Before applying to the Secondary Education Program, students must meet the prerequisite of 45 hours of early field experience or enroll in SED 210/SED 410.

**REQUIREMENTS FOR THE MINOR**

**Unit Requirement: 18**

**Required Courses (6 units)**

- MUS 104 (3) Introduction to Music
- MUS 110 (3) Fundamentals of Music

**Applied Instruction (3 units)**

*Complete three semesters (3 courses) chosen from:*

- MUS 108 (1) Class Applied Instruction
- MUS 109 (1) Class Applied Instruction
- MUS 112 (1) Piano I
- MUS 113 (1) Piano II
- MUS 130 (1) Piano III
- MUS 330 (1) Piano IV
- MUS 222-236 Studio Instruction.

At least one semester of piano instruction is recommended.

**Ensembles (3 units)**

*Complete three semesters (3 units) from:*

MUS 406 or MUS 407 (1) Performance Ensemble

**Electives (6 units)**

*Complete 6 units of electives to be chosen from:*

- MUS 214 (3) Theory I
- MUS 301 (3) Rock: An American Music
- MUS 302 (3) Music in World Culture
- MUS 305 (3) Jazz: An American Art Form
- MUS 318 (2) Jazz Improvisation
- MUS 320 (3) Composition: Film Scoring
- MUS 323 (2) Jazz Pedagogy
- MUS 324 (2) Contemporary  
Composition Techniques
- MUS 361 (2) Music Technology:  
Recording & Playback
- MUS 453 (2) Career Skills for Musicians



# NATIVE AMERICAN STUDIES

## **Bachelor of Arts degree with a major in Native American Studies**

### **Minor in Indigenous Peoples, Natural Resource Use & the Environment**

### **Minor in Native American Studies**

### **Minor in Tribal Leadership**

### **Department Chair**

Cutchá Risling Baldy, Ph.D.

### **Department of Native American Studies**

Behavioral & Social Sciences 206

707-826-4329

[humboldt.edu/nasp](http://humboldt.edu/nasp)

### **The Program**

The Department of Native American Studies is an independent academic department, where students are prepared for careers and advanced study in which collaboration with native communities plays a vital role. Students are provided with quality instruction utilizing interdisciplinary, research and public service curriculum that foregrounds Native American epistemologies and knowledges. Our students gain skills in and are challenged to think creatively, logically, and critically with regard to literature, art, history, law, environment and politics. This prepares them to go out into the world with a knowledge of Native American issues that will make them assets to the communities in which they work and live.

Native American Studies maintains the core position that cultural, spiritual and educational growth are inseparable. With that in mind, we are committed to guiding students toward becoming productive and socially responsible individuals. To achieve this the program curriculum fosters diversity, social justice and cultural democracy with a commitment to scholarly rigor, theoretical clarity, and critical/creative pedagogy, all while recognizing our responsibility to indigenous communities.

Students graduating with a major in Native American Studies will have demonstrated:

- Mastery of the ability to engage in critical dialogue utilizing various aspects of Native American Studies through oral presentations that convey diverse and complex viewpoints.
- Mastery of the ability to write clearly and effectively about the histories, politics, and social issues confronting Indigenous people

in the context of colonization, imperialism, globalization, decolonization, and Indigenous autonomy.

- Mastery of the ability to research issues affecting life in Indian Country by determining the extent of information needed, accessing the various sources, and using the information effectively, and do so in a manner that is culturally responsible, ethical and legal.

- Mastery of the ability to identify and navigate the system of state, federal and tribal agencies and policies to further the objectives of tribal governments and tribal sovereignty.

- Mastery of the ability to identify, analyze and respond to environmental issues affecting Indigenous communities by identifying responsible policies that are free from discrimination, and take into account the diverse Indigenous cultural perspectives of natural resource management.

- Mastery of the ability to think in a clear, reasoned and reflective manner that is informed by evidence about the unique federal-tribal relationship, Indigenous ways of governing and the principles of Native American justice.

- Ability to present themselves professionally and appropriately in an academic or career setting.

Unique among the CSU campuses in its close proximity to 11 federally recognized tribes and the largest population of Native Americans in the state of California, HSU provides a rich environment for studying federal Indian law, tribal government and justice systems, natural resource management, linguistics and culture. Faculty in the Department of Native American Studies are experts in the areas of arts, humanities, linguistics, social sciences, natural resources and federal Indian law.

The major in Native American Studies, particularly when combined with a minor in a specific field, is good preparation for graduate work in several social sciences, as well as for professional training in law, business, or social work. It also provides an excellent background for prospective teachers.

Other career opportunities: student services counselor, mental health worker, cultural resources specialist, tribal museum curator, Indian language teacher, and tribal administrator.

### **Preparation**

High school students should take writing, literature and social science courses (history, psychology, sociology).

Community college students should take introductory courses in Native American Studies and courses that meet lower division general education requirements.

### **REQUIREMENTS FOR THE MAJOR**

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### **Unit Requirement**

<b>Core units:</b>	<b>31</b>
<b>Electives/emphasis units</b>	<b>6-7</b>
<b>Total units in the major:</b>	<b>37-38</b>
<b>Total units required to graduate:</b>	<b>120</b>

### **Core Courses (31 units)**

#### **Lower Division**

NAS 104	(3) Introduction to Native American Studies
NAS 200	(3) Indigenous Peoples in US History

#### **Upper Division**

NAS 301	(3) Native American Literature
NAS 306	(3) Indigenous Peoples of the Americas
NAS 325	(3) Native Tribes of California
NAS 331	(3) Indigenous Natural Resource Management Practices
NAS 340	(3) Language & Communication in Native American Communities
NAS 362	(3) Tribal Governance & Leadership
NAS 364	(4) Federal Indian Law I
NAS 492	(3) Native American Studies Capstone Experience

### **Electives/Optional Emphasis (6-7 units)**

After taking the required core courses, all students will select an additional 6 to 7 units of coursework. Students may pursue a "General" NAS degree and choose courses from any of the 4 elective areas, or choose an emphasis in which to specialize (Law & Government, Environment & Natural Resources, Language & Literature,

Society & Culture). If a student chooses an optional emphasis, the student must take two courses in that area.

**Electives/Optional Emphasis (6-7 units)**

A student may choose an optional emphasis from the following electives by taking two of the courses listed under a category below.

**Law & Government**

- NAS 365 (4) Federal Indian Law II
- NAS 468 (3) Tribal Justice Systems

**Environment & Natural Resources**

- NAS 332 (3) Environmental Justice
- NAS 366 (4) Tribal Water Rights

**Language & Literature**

- NAS 302 (3) Oral Literature & Oral Tradition
- NAS 345 (3) Native Languages of North America

**Society & Culture**

- NAS 307 (3) Nature & Issues of Genocide
- NAS 320 (3) Native American Psychology
- NAS 374 (3) Native American Health

**Supplement/Substitute in Major If Offered**

Upper division elective courses are recommended for those who would like to pursue interests in subjects or to engage in more in-depth study of an area not required as part of the NAS curriculum. Before enrolling in these elective courses, students will consult with their major advisor. These courses will be offered on an infrequent schedule.

- NAS 361 (3) Tribal Sovereignty, Tribal Citizens
- NAS 392 (3) Indigenous Identities in Film
- NAS 480 (1-4) Special Topics [Topics vary and may be repeated.]

**REQUIREMENTS FOR THE MINORS**

**Minor in Native American Studies**

**Total units required for the minor: 15-17**

Students take a total of 9 units of required courses plus 6-8 units (two courses) from one of two emphasis categories below,

**Required Courses (9 units)**

- NAS 104 (3) Introduction to Native American Studies
- NAS 200 (3) Indigenous Peoples in US History

- NAS 306 (3) Indigenous Peoples of the Americas

**Emphasis Categories (6-8 units)**

*Complete two upper division courses from one of the following emphasis categories to fulfill the requirements of the minor:*

**Culture & Community Emphasis**

- NAS 301 (3) Native American Literature
- NAS 325 (3) Native Tribes of California
- NAS 374 (3) Native American Health

**Law & Policy Emphasis**

- NAS 331 (3) Indigenous Natural Resource Management Practices
- NAS 364 (4) Federal Indian Law I
- NAS 366 (4) Tribal Water Rights

**Minor in Tribal Leadership**

**Total units required for the minor: 16**

**Lower Division (6 units)**

- NAS 104 (3) Introduction to Native American Studies
- NAS 200 (3) Indigenous Peoples in US History

**Upper Division (10 units)**

- NAS 362 (3) Tribal Governance & Leadership
- NAS 468 (3) Tribal Justice Systems
- NAS 364 (4) Federal Indian Law I, **or**
- NAS 365 (4) Federal Indian Law II

**Minor in Indigenous Peoples, Natural Resource Use & the Environment**

**Total units required for the minor: 17**

**Lower Division (3 units)**

- NAS 104 (3) Introduction to Native American Studies

**Upper Division (14 units)**

- NAS 331 (3) Indigenous Natural Resource Management Practices
- NAS 332 (3) Environmental Justice
- NAS 364 (4) Federal Indian Law I, **or**
- NAS 365 (4) Federal Indian Law II
- NAS 366 (4) Tribal Water Rights



# NATURAL RESOURCES

## Master of Science degree in Natural Resources — concentrations in:

Environmental Science & Management  
Fisheries  
Forest, Watershed & Wildland Sciences  
Wildlife

## Minor in Natural Resources (see Environmental Science & Management)

## Natural Resources Graduate Program

Forestry Building 101  
707-826-3256  
CNRSmast.humboldt.edu

## Graduate Coordinator

Erin Kelly,  
707-826-4150  
eck107@humboldt.edu

## The Program

A student in this program will:

- carry out a scientific investigation of phenomena in a natural system that includes: a) Formulation and statement of a research question based on literature review, b) Design and implementation of study using appropriate quantitative or qualitative methodology, c) Presentation of research results, and d) Discussion of the relationship of the research results to the field of study and their broader relevance.
- communicate scientific investigation in writing, using accepted structure, style, and format for scientific reports and papers in the discipline.
- communicate scientific investigation in oral presentation, using accepted structure, format, and visual aids for scientific presentations in the discipline
- apply appropriate mathematical, computer simulation, statistical models and/or qualitative methods in their research
- articulate the relationship of his/her scientific investigation to the physical, ecological, and/or socioeconomic aspects of a problem in the natural environment.

## Program Admission Requirements

Applicants must possess preparation equivalent to the baccalaureate degree. Adequate academic preparation can best be demonstrated by a baccalaureate degree in the chosen option or in a closely related field. Applicants who lack adequate preparation may be required to make up academic

deficiencies through additional course work. Such course work may not be used toward the graduate degree.

Applicants must have a minimum GPA of 3.00 for the last 60 undergraduate units. Applicants with extensive work experience, exceptional GPA, or GRE scores may be reconsidered by appeal to the department faculty to the Graduate Advisory Council through the graduate coordinator.

Applicants are not required to submit Graduate Record Exam (GRE) scores unless specifically requested by a potential faculty advisor. Applicants should contact the professor(s) they are interested in working with to determine if the GRE is needed.

Please refer to the College of Natural Resources & Sciences website at [cnrs.humboldt.edu](http://cnrs.humboldt.edu) or contact [CNRSmast@humboldt.edu](mailto:CNRSmast@humboldt.edu) for additional information.

## REQUIREMENTS FOR THE DEGREE

*For a description of degree requirements to be fulfilled in addition to those listed below see, "The Master's Degree" section of the catalog, pp. 83-84.*

## Master of Science degree in Natural Resources: Environmental Science & Management Concentration

Total units required for the degree: 30

ESM graduate studies are oriented toward environmental analysis and land use planning; environmental science, particularly ecological restoration, renewable energy, and energy policy; recreational use of natural resources; and geospatial analysis of environmental and natural resource-related topics.

## Required Courses

ESM 685 [1-3] Graduate Seminar

Enrollment in ESM 685 is required during two semesters of residence. A maximum of 2 units is applicable to the 30-unit requirement.

ESM 690 [1-4] Thesis (units as below)

ESM 695 [1-4] Field Research (units as below)

Students must enroll in 1 unit of both ESM 690 and ESM 695 during each semester of residence. Students may enroll in 1 unit through the College of Extended Education & Global Engagement their final semester if approved by their advisor.

## Approved Electives

Approved upper division and graduate electives to bring total units to no fewer than 30 units. At least half of these units must be courses organized and conducted at the graduate level.

## Culminating Experience

A thesis, a public oral presentation, and a closed formal defense are required.

## Master of Science degree in Natural Resources: Fisheries Concentration

Total units required for the degree: 30

The Fisheries program is designed primarily to produce graduates who can assess, develop, and manage fish habitats, populations, and commercial and recreational fisheries. The program is broad enough to allow students to prepare themselves for work in additional areas such as water pollution ecology and fish culture.

## Required Courses

FISH 310 [4] Ichthyology  
FISH 460 [3] Adv. Fish Conservation & Management

FISH 558 [4] Fish Population Dynamics  
FISH 685 [1] Graduate Fisheries Seminar

FISH 690 [1-4] Thesis (units as below)  
FISH 695 [1-4] Research Problems in Fisheries (units as below)

## Approved Electives

Approved upper division and graduate electives to bring total units to no fewer than 30 and no more than 60 units. At least half of these units must be courses organized and conducted at the graduate level.

During the first four semesters at HSU, all graduate students shall enroll in 3 units each of FISH 690 and FISH 695. In all subsequent semesters in residence, students shall enroll in at least 1 unit each of FISH 690 and FISH 695.

## Culminating Experience

A thesis, a public oral presentation, and a closed formal defense are required.

## Master of Science degree in Natural Resources: Forest, Watershed & Wildland Sciences Concentration

Total units required for the degree: 30

Graduate studies in Forest, Watershed & Wildland Sciences are oriented toward

generating a greater understanding of the ecology and management of forests, rangelands, and the soils and watersheds that support them. Graduate research is focused on a wide variety of topics, including forest ecology, fire science, forest growth and dynamics, forest operations analysis, watershed processes, rangeland ecology soil science, and integrative analyses across these areas.

### **Required Courses**

FWWS 501 [2] Research Methods & Planning

All students are required to enroll in at least 1 unit of at least two of the following courses every semester:

FWWS 690 [1-3] Thesis Research

FWWS 695 [1-3] Field Research Problems

FWWS 699 [1-4] Directed Study

### **Approved Electives**

Approved upper division and graduate electives bringing the total units to no fewer than 30 units. At least half of these units must be courses organized and conducted at the graduate level.

### **Culminating Experience**

A thesis, a public oral presentation, and a closed formal defense are required.

## **Master of Science degree in Natural Resources: Wildlife Concentration**

**Total units required for the degree: 30**

Wildlife focuses on the conservation, management, ecology, behavior, and habitat requirements of wildlife species. Research projects emphasize the application of science to addressing issues in wildlife conservation and management.

### **Required Courses**

WLDF 585 [1-3] Seminar in Wildlife Management

WLDF 690 [1-3] Thesis

WLDF 695 [1-3] Advanced Field Problems

### **Approved Electives**

Approved upper division and graduate electives to bring total units to no fewer than 30 units. At least half of these units must be courses organized and conducted at the graduate level.

### **Culminating Experience**

A thesis, a public oral presentation, and a closed formal defense are required.



# NURSING

## Bachelor of Science degree with a major in Nursing (RN-BSN)

### Program Director

Kimberly Perris, DNP

### Nursing Program Office

707-826-4533

nursing.humboldt.edu

nursing@humboldt.edu

### Department Chair

Justus Ortega, Ph.D.

### Department of Kinesiology & Recreation Administration

Kinesiology & Athletics 305

707-826-4536

kra.humboldt.edu

### The Program

The nursing (RN-BSN) program is designed for students who have earned an associate degree in nursing (see admission requirements below) and want to advance their skills in leadership, care management and health promotion. The program's curriculum is designed specifically for the local area, focusing on physical and psychosocial health needs and disparities within the region's rural and tribal communities. The program accommodates working nurses with a flexible blend of online and in-person courses. Students will be required to meet on campus for a pre-semester orientation, plus two weekend intensives each semester. The remainder of the program will be online.

### Program Learning Outcomes

Graduates of this program will be able to:

- Identify ways to improve healthcare in the US and they will acquire leadership skills necessary to advocate for such improvements in rural populations.
- Apply knowledge of social and cultural factors to the care of diverse populations.
- Integrate patient care technologies as appropriate to address the diverse needs of a rural patient population.
- Develop a nursing philosophy that formulates how they will apply their personal strengths to the care of others while nurturing their own personal health and wellness.
- Analyze data and apply relevant research to identify evidence-based solutions in their area of specialization.

### Program Admission Requirements

To be eligible for admission to the program, candidates must:

- be a graduate of a nationally recognized, regionally accredited associate degree program in nursing
- have a current, clear, and active California Registered Nursing (RN) license
- have a minimum cumulative GPA of 2.75 from all transfer institutions
- have completed the following eight CSU systemwide nursing program prerequisites (CSU GE Breadth Areas A and B) with a grade of C or better: **Note:** Courses in parentheses are examples of HSU courses that meet this prerequisite.
  - Oral communication (COMM 100)
  - Written communication (ENGL 104)
  - Critical Thinking
  - Chemistry: general, inorganic, organic or integrated\* (CHEM 107, CHEM 109, CHEM 128)
  - Human anatomy with lab (ZOOL 270)
  - Human physiology with lab (ZOOL 113)
  - Microbiology with lab (BIOL 210)
  - Statistics (STAT 108)

\*with associated lab, if required at the institution where the course was taken.

Students are required to maintain current California Registered Nurse licensure while enrolled in nursing courses. It is the student's responsibility to notify the program director immediately, in writing, of any changes in licensure status.

### REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

**General Education Notes:** The Upper Division Area B General Education requirement is met by the coursework within the nursing major. *The department suggests that students select Upper Division GE area C and area D courses that also meet Diversity and Common Ground (DCG) requirements.*

Students may be awarded up to 10 lower division units and 7 upper division units using the standardized external National Council Licensure Examination NCLEX-RN to demonstrate prior learning of the pre-licensure art and science of nursing required by the Board of Registered Nursing.

### Special Grade Requirement

A minimum grade of C must be earned in all major courses,

### Unit Requirements

Units in the major (including 17 units from NCLEX-RN) **44**

Total units required for the degree: **120**

### Required Courses (27 units)

HED 451	[3]	Nutrition for Chronic Disease
NRSG 348	[3]	Development for Professional Practice
NRSG 350	[3]	Pathophysiology for Nursing Practice
NRSG 372	[3]	Health Assessment & Promotion Across the Lifespan
NRSG 390	[3]	Nursing Informatics & Information Literacy & Competency
NRSG 460	[3]	Nursing Leadership & Management Dynamics
NRSG 470	[3]	Community/Public Health Nursing
NRSG 471	[3]	Community/Public Health Nursing Lab
NRSG 490	[3]	Introduction to Nursing Research



### Programs Leading to Licensure & Credentialing

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or taxpayer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees or any associated costs to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Office of Academic Affairs, Siemens Hall 216, 707-826-3722.

# OCEANOGRAPHY

## Bachelor of Science degree with a major in Oceanography

### Minor in Oceanography

#### Department Chair

Christine Cass, Ph.D.

#### Department of Oceanography

Natural Resources Building 200  
707-826-3540, fax 707-826-4145  
humboldt.edu/oceanography

### The Program

Students completing this program will have demonstrated:

- utilization of scientific concepts from biology, chemistry, geology, physics, and mathematics to understand fundamental oceanographic processes and functions
- the ability to employ appropriate sampling, laboratory, and computer techniques to collect, measure, and interpret oceanographic information
- integration of conceptual and technical understanding to address complex interdisciplinary problems in oceanography
- utilization of reading, writing, and oral skills to effectively communicate oceanographic information.

Humboldt's students have the advantage of living in an ideal natural environment for marine studies, close to both the ocean and a number of estuaries and lagoons. Humboldt State University has a fully equipped marine laboratory in the nearby town of Trinidad and a research vessel docked in Humboldt Bay, allowing students to supplement classroom learning through laboratory and seagoing experiences and field trips.

Flexible coursework and experiences allow students a variety of choices while still providing an education of considerable breadth, an understanding of fundamental concepts unique to oceanography, and an appreciation of how concepts from allied fields interrelate. The intent is to develop an interdisciplinary train of thought essential for understanding the marine environment.

Participants also study in depth a science related to oceanography, such as geology, chemistry, physics, or biology. This program allows a student to:

- prepare as an ocean scientist to collect, process, and aid in interpreting scientific data collected on oceanographic cruises and other fieldwork conducted by federal, state, educational, or private institutions and agencies;

- prepare for graduate study in oceanography or a related science by acquiring a broad, sound science background;

- secure a broad science background and sound fundamental education (for those with an interest in the major who do not intend to use it as a career).

Humboldt's program prepares ocean scientists who collect, process, and interpret scientific data. Graduates excel in these careers: oceanographer, research assistant, marine biologist, marine products salesperson, aquatic biologist, marine geophysicist, hydrologist, water pollution technician, environmental specialist, scientific officer, hydrographic surveyor, earth scientist, aquatic chemist.

### Preparation

Students should have a good background in biology, chemistry, physics, and mathematics. Competence with computers and a language other than English is recommended.

### REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

The Upper Division Area B General Education requirement is met by the coursework within the major.

### Unit Requirements

Total units in the major: **81**

Total units required for the degree: **120**

#### Lower Division (23 units)

BIOL 105	(4) Principles of Biology
CHEM 109	(5) General Chemistry I
CHEM 110	(5) General Chemistry II
GEOG 109	(4) General Geology
OCN 109	(3) General Oceanography &
OCN 109L	(1) General Oceanography Laboratory
OCN 260	(1) Sampling Techniques & Field Studies

#### Upper Division (27 units)

OCN 310	(4) Biological Oceanography
OCN 320	(4) Physical Oceanography
OCN 330	(4) Chemical Oceanography
OCN 340	(4) Geological Oceanography
OCN 370	(2) Library Research & Report Writing
OCN 420	(3) Oceans & Climate
OCN 485	(1) Undergraduate Seminar
OCN 495	(3) Field Cruise I
OCN 496	(2) Field Cruise II

Complete one of the following two groups:

#### Group One (31 units)

MATH 109	(4) Calculus I
MATH 110	(4) Calculus II
MATH 210	(4) Calculus III
PHYX 109	(4) General Physics A
PHYX 210	(4) General Physics B

Plus an 11-unit package of approved electives, tailored individually to the student's educational goals.

#### Group Two (31 units)

MATH 105	(3) Calculus for the Biological Sciences & Natural Resources
MATH 215	(3) Multivariate Calculus for the Biological Sciences & NR
PHYX 106	(4) College Physics: Mechanics & Heat
PHYX 107	(4) College Physics: Electromagnetism & Modern Physics
STAT 109	(4) Introductory Biostatistics

Plus a 13-unit package of approved electives, tailored individually to the student's educational goals.

Besides satisfying the major requirement, the elective package commonly leads to completion of a minor in a related field of study.

### REQUIREMENTS FOR THE MINOR

Total units required for the minor: **16**

OCN 109	(3) General Oceanography &
OCN 109L	(1) General Oceanography Laboratory
OCN 260	(1) Sampling Techniques & Field Studies

Complete two of the following courses.

OCN 310	(4) Biological Oceanography
OCN 320	(4) Physical Oceanography
OCN 330	(4) Chemical Oceanography
OCN 340	(4) Geological Oceanography

Complete one additional course from the following list or a 300-level course listed above.

OCN 301	(3) Marine Ecosystems — Human Impact
OCN 304	(3) Resources of the Sea
OCN 410	(3) Zooplankton Ecology
OCN 420	(3) Oceans & Climate
OCN 495	(3) Field Cruise I
BIOL 430	(3) Intertidal Ecology
CHEM 370	(3) Earth System Chemistry
FISH 310	(4) Ichthyology
FISH 335	(3) US & World Fisheries
GEOG 460	(3) Solid Earth Geophysics

# PHILOSOPHY

## Bachelor of Arts degree with a major in Philosophy

**Minor in Philosophy** — Asian Aspects,  
Ethics & Values, Fundamental Aspects,  
History of Western Philosophy

**Department Chair**  
Benjamin Shaeffer, Ph.D.

**Department of Philosophy**  
Behavioral & Social Sciences 506  
707-826-4124, fax 707-826-4122  
phil@humboldt.edu  
philosophy.humboldt.edu

## The Program

Students completing this program will have demonstrated the ability to:

- define concepts and use traditional vocabulary of philosophy
- use the logical methods of analysis to critically assess philosophical arguments
- apply methods of philosophy to specific issues and problems
- identify, articulate, and evaluate philosophical arguments.

The Philosophy major provides its students with the opportunity to engage in critical as well as constructive dialogue with the greatest thinkers in both the Eastern and Western traditions. This includes ideas and values, from ancient through contemporary works, which continue to influence and challenge our thinking in all areas of human thought and action. While learning how to read such works philosophically, both class discussions and writing assignments will assist the student in learning how to think, speak, and write philosophically. These skills will cultivate the power to logically analyze and holistically integrate concepts and theories, as well as lay the foundations for a lifetime of learning in that students will learn how to learn for themselves. A degree in philosophy will provide one of the best preparations both for an academic career, as well as for many other professions, such as law, medicine, government and education.

## REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

## Unit Requirements

**Total units in the major:** 45  
**Total units required for the degree:** 120

## Special Grade Requirement

*Philosophy majors must earn a minimum grade of "C-" in all courses taken to fulfill the major requirements; and must earn a minimum overall GPA of 2.00 in the major.*

## Lower Division

PHIL 100 (3) Logic

## Upper Division

PHIL 302 (3) Environmental Ethics  
PHIL 303 (3) Theories of Ethics  
PHIL 341 (3) Presocratics, Plato, Aristotle  
PHIL 342 (3) Descartes, Locke, Hume  
PHIL 343 (3) Kant and the 19th Century  
PHIL 345 (3) Philosophies of China, or  
PHIL 346 (3) Philosophies of India  
PHIL 371 (3) Contemporary Social & Political Philosophy  
PHIL 420 (3) Contemporary Epistemology & Metaphysics  
PHIL 425 (3) Philosophy of Science

## Seminars

*Complete two seminars selected from offerings of:*

PHIL 485 (3) Seminar in Philosophy

## Upper Division Electives

*Complete two of the following courses:*  
PHIL 301 (3) Reflections on the Arts  
PHIL 304 (3) Philosophy of Sex & Love  
PHIL 306 (3) Race, Racism & Philosophy  
PHIL 307 (3) Philosophy of Law  
PHIL 309B (3) Perspectives: Humanities /Science/Social Science  
PHIL 355 (3) Existentialism  
PHIL 415 (3) Symbolic Logic  
PHIL 485 (3) Seminar in Philosophy  
(3 units of PHIL 391 may be used in lieu of one of the electives and must be approved by the Department Chair for credit.)

## REQUIREMENTS FOR THE MINORS

For the four minors listed below, take the indicated courses and confer with members of the philosophy faculty for assistance in selecting suitable electives.

## Special Grade Requirement

Philosophy minors must earn a minimum grade of "C-" in all courses taken to fulfill the minor requirements; and must earn a minimum overall GPA of 2.00 in the minor.

## Minor in Philosophy — Asian Aspects

**Total units required for the minor:** 12

*Complete two of the following courses.*

PHIL 104 (3) Asian Philosophy  
PHIL 345 (3) Philosophies of China  
PHIL 346 (3) Philosophies of India

*Complete two 3-unit electives in philosophy, one of which must be upper division.*

## Minor in Philosophy — Ethics & Values

**Total units required for the minor:** 12

PHIL 303 (3) Theories of Ethics

*Complete two of the following courses.*

PHIL 106 (3) Moral Controversies  
PHIL 301 (3) Reflection on the Arts  
PHIL 302 (3) Environmental Ethics  
PHIL 304 (3) Philosophy of Sex & Love  
PHIL 306 (3) Race, Racism & Philosophy  
PHIL 371 (3) Contemporary Social & Political Philosophy

*Complete one lower or upper division 3-unit elective in philosophy.*

## Minor in Philosophy — Fundamental Aspects (recommended minor for pre-law)

**Total units required for the minor:** 12

PHIL 100 (3) Logic  
PHIL 303 (3) Theories of Ethics  
PHIL 420 (3) Contemporary Epistemology & Metaphysics

*Complete one upper division, 3-unit philosophy elective. (If pre-law, PHIL 415: Symbolic Logic, is recommended.)*

## Minor in Philosophy — History of Western Philosophy

**Total units required for the minor:** 12

PHIL 341 (3) Presocratics, Plato, Aristotle  
PHIL 342 (3) Descartes, Locke, Hume  
PHIL 343 (3) Kant and the 19th Century

*Complete one lower or upper division 3-unit elective in philosophy.*



# PHYSICAL SCIENCE

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## **Bachelor of Arts degree with a major in Physical Science**

**Department Chair**  
Monty Mola, Ph.D.

**Department of Physics and Astronomy**  
Science Complex A 470  
707-826-3277  
humboldt.edu/physics

### **The Program**

The physical science degree is less specialized than the physics major, and therefore more adaptable to studies in various fields, including preparation for teaching at the middle or secondary school level.

### **REQUIREMENTS FOR THE MAJOR (Physical Science BA)**

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

#### **Special Grade Requirement**

A minimum grade of C- is required for all courses with the "PHYX" prefix for the physical science major.

#### **Unit Requirements**

**Total units in the major: 57**  
**Total units required for the degree: 120**

#### **Lower Division (37 units)**

CHEM 109 (5) General Chemistry I  
CHEM 110 (5) General Chemistry II  
MATH 109 (4) Calculus I  
MATH 110 (4) Calculus II  
MATH 210 (4) Calculus III  
MATH 241 (3) Elements of Linear Algebra  
PHYX 109 (4) General Physics A:  
Mechanics  
PHYX 210 (4) General Physics B:  
Thermodynamics, Waves  
& Optics  
PHYX 211 (4) General Physics C:  
Electricity & Magnetism

#### **Upper Division (20 units)**

PHYX 315 (3) Intro to Electronics &  
Electronic Instrumentation  
PHYX 320 (3) Modern Physics  
PHYX 340 (2) Mathematical &  
Computational Methods

#### **Upper Division Electives**

Complete 12 units of approved upper division courses within the physical sciences, (chemistry, geology, oceanography, physics), mathematics, or engineering.



DRAFT

# PHYSICS

**Bachelor of Science degree  
with a major in Physics** (traditional)

**Bachelor of Science degree  
with a major in Physics —  
concentration in astronomy**

**Bachelor of Arts degree  
with a major in Physical Science** (see  
physical science)

**Minor in Astronomy**

**Minor in Physics**

**Department Chair**

Monty Mola, Ph.D.

**Department of Physics and Astronomy**

Science Complex A 470

707-826-3277

[humboldt.edu/physics](http://humboldt.edu/physics)

## The Program

Students completing this program will have demonstrated:

- understanding of how physics attempts to describe processes in nature
- competency in abstract reasoning and problem-solving skills
- understanding and use of physical and mathematical models
- knowledge of physics concepts applicable to a range of disciplines
- understanding of how physics relates and applies to studies in other disciplines
- breadth, depth, and rigor expected of a student with an undergraduate degree in physical science
- proficiency and skill in constructing and performing laboratory experiments and in the interpretation of experimental observations
- understanding the theories that support modern physical science.

This program is the prerequisite to many research positions offered by government and industry, and to graduate study. Careers in physics often require advanced degrees beyond the BS. Typical opportunities: aerospace scientist, medical technologist, systems analyst, astronomer, meteorologist, industrial hygienist, electronics engineer, fusion engineer, oceanographer, physical chemist, geophysicist, physicist.

The university's nearby observatory on Fickle Hill has a 16-inch telescope, a 12-inch telescope, and several 8-inch telescopes for student and community use. The department also offers a well-equipped computer electronics laboratory.

## Preparation

In high school take English, mathematics, and physics.

## REQUIREMENTS FOR THE MAJOR (Physics BS)

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82. The Upper Division Area B General Education requirement is met by the coursework within the Bachelor of Science degree for either option in the Physics major.*

## Unit Requirements

**Core units:** 67

**Astronomy/Physics units:** 9/11

**Total units in the major:** 76/78

**Total units required for the degree:** 120

## Special Grade Requirement

A minimum grade of C- is required for all courses with the "PHYX" prefix for the physics major.

## Core Courses (67 units)

*The following core courses are required for all physics majors.*

### Lower Division

CHEM 109	(5)	General Chemistry I
CHEM 110	(5)	General Chemistry II
MATH 109	(4)	Calculus I
MATH 110	(4)	Calculus II
MATH 210	(4)	Calculus III
MATH 241	(3)	Elements of Linear Algebra
PHYX 109	(4)	General Physics A: Mechanics
PHYX 210	(4)	General Physics B: Thermodynamics, Waves & Optics
PHYX 211	(4)	General Physics C: Electricity & Magnetism

### Upper Division

MATH 311	(2)	Vector Calculus
MATH 313	(4)	Ordinary Differential Equations
PHYX 320	(3)	Modern Physics
PHYX 324	(4)	Analytical Mechanics
PHYX 325	(4)	Thermal Physics
PHYX 340	(2)	Mathematical and Computational Methods
PHYX 441	(3)	Electricity & Magnetism I
PHYX 442	(3)	Electricity & Magnetism II
PHYX 450	(4)	Quantum Physics I
PHYX 484	(0.5)	Physics Seminar I
PHYX 485	(0.5)	Physics Seminar II

*Complete one of the following to fulfill the requirements of the major.*

## Astronomy Concentration (11 units)

PHYX 310	(3)	Spacetime & Relativity
PHYX 360	(4)	Physics of Stars & Planets
PHYX 361	(4)	Galaxies and Cosmology

## Physics – traditional (9 units)

PHYX 315	(3)	Intro to Electronics & Electronic Instrumentation
PHYX 316	(4)	Electronic Instrumentation & Control Systems
PHYX 462	(2)	Senior Lab

Those students intending to enter graduate school in physics should take more courses in physics and mathematics. For example:

MATH 240	(3)	Intro to Mathematical Thought
MATH 314	(3)	Partial Differential Equations
MATH 343	(4)	Intro to Algebraic Structures
MATH 344	(3)	Linear Algebra
MATH 351	(4)	Intro to Numerical Analysis
MATH 418	(3)	Intro to Complex Analysis
PHYX 495	(1-3)	Selected Topics in Physics for Seniors — Undergraduate Research

## REQUIREMENTS FOR THE MINORS

### Minor in Astronomy

**Total units required for the minor: 21-32**

### Special Grade Requirement

A minimum grade of C- is required for all courses with the "PHYX" prefix for the physics minor.

### Lower Division

*Complete one of the following series of courses.*

MATH 101T	(3)	Trigonometry, <b>or</b>
MATH 102	(4)	Algebra & Elementary Functions
PHYX 104	(4)	Descriptive Astronomy
PHYX 106	(4)	College Physics: Mechanics & Heat
PHYX 107	(4)	College Physics: Electromagnetism & Modern Physics

### OR

MATH 109	(4)	Calculus I
MATH 110	(4)	Calculus II
MATH 210	(4)	Calculus III

- PHYX 109 (4) General Physics A:  
Mechanics
- PHYX 210 (4) General Physics B:  
Thermodynamics, Waves  
& Optics
- PHYX 211 (4) General Physics C:  
Electricity & Magnetism

### Upper Division

*Complete two of the following courses.*

- PHYX 303 (3) Life in the Universe
- PHYX 304 (4) Cosmos
- PHYX 310 (3) Spacetime & Relativity
- PHYX 360 (4) Physics of Stars & Planets
- PHYX 361 (4) Galaxies and Cosmology

### Minor in Physics

**Total units required for the minor: 30**

### Special Grade Requirement

A minimum grade of C- is required for all courses with the "PHYX" prefix for the physics minor.

### Lower Division

- MATH 109 (4) Calculus I
- MATH 110 (4) Calculus II
- MATH 210 (4) Calculus II
- PHYX 109 (4) General Physics A:  
Mechanics
- PHYX 210 (4) General Physics B:  
Thermodynamics, Waves  
& Optics
- PHYX 211 (4) General Physics C:  
Electricity & Magnetism

### Upper Division

- PHYX 320 (3) Modern Physics, **or**
- CHEM 362 (3) Physical Chemistry II

Plus 3 additional units of upper division physics courses:

- PHYX 310 (3) Spacetime & Relativity
- PHYX 315 (3) Intro to Electronics &  
Electronic Instrumentation
- PHYX 324<sup>†</sup> (4) Analytical Mechanics
- PHYX 325 (4) Thermal Physics
- PHYX 340<sup>†</sup> (2) Mathematical &  
Computational Methods
- PHYX 420<sup>†</sup> (4) Optical Systems Design
- PHYX 441<sup>†</sup> (3) Electricity & Magnetism I
- PHYX 450<sup>†</sup> (4) Quantum Physics I
- PHYX 495 (1-3) Selected Topics in  
Physics for Seniors –  
Undergraduate Research



<sup>†</sup> Course requires one or more prerequisites that are not required elsewhere in the minor. See course description for prerequisites.

# POLITICAL SCIENCE

## Bachelor of Arts degree

### with a major in Political Science —

with concentrations also available in:

Law & Policy

Politics of Environment & Sustainability

Global Politics

## Minor in Political Science

## Department Chair

Stephanie Burkhalter, Ph.D.

## Department of Politics

Founders Hall 180

707-826-4494

politics.humboldt.edu

## The Program

Our classes focus on critical engagement with current political practices globally and in the U.S. The Political Science major will give you the skills you need to pursue a career in political organizing, public policy, government, or law. Learn how to save the world... one step at a time.

Students completing this program will have demonstrated:

- knowledge of political theories, institutions, and processes in the U.S. and internationally
- the ability to identify, access, read, and evaluate political science research
- the ability to critically analyze social, political, and environmental challenges facing contemporary politics, using support from appropriate sources
- knowledge of the practice of politics through experience and reflection on their experience in relation to social responsibility, sustainability, and/or the obligations of citizenship in a globalized world
- proficiency in written and oral communication.

For students who wish to concentrate on the study of politics as a part of their liberal arts education, the Department of Politics offers lower division core and skills courses in political science and three upper division elective concentrations focused upon major challenges and opportunities of the 21st century. The experience component of our program recognized the importance of "hands on" learning outside the classroom. We strongly encourage our students to include an international experience, such as a semester-long study abroad, and/or to gain competence in a language in addition to English as part of their major in political science.

## Preparation

In high school take courses in English, history, and government.

## Dual Degree Pathway (BA & MA)

Students interested in pursuing a graduate degree while at HSU may wish to consider the dual degree pathway with the Master of Arts in Social Science, Environment and Community graduate program. The dual degree pathway enables exceptional students to earn a bachelor's and a master's degree in five years. Please refer to the Social Science M.A. program description in this catalog for more information.

## REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

### Unit Requirements

Core units: 21

Traditional/concentration units: 20

Total units in the major: 41

Total units required for the degree: 120

### Special Grade Requirement

All courses required for the major must be completed with a minimum grade of C-

### Core Courses (21 units)

The following core course are required for all political science majors.

#### Lower Division

PSCI 220 (3) Intro to Political Theory

PSCI 230 (3) Intro to Comparative Politics

PSCI 240 (3) Intro to International Relations

PSCI 280 (1) Core Discussion Seminar

PSCI 295 (4) Political Research & Analysis

#### Upper Division

#### Experience

Complete at least one of the following:

PSCI 413 (3) Moot Court

PSCI 376 (2) Multilateralism & the UN System, **and**

PSCI 377 (1) Model United Nations

PSCI 482 (3) Internship

## Capstone

PSCI 485 (4) Capstone Seminar in Politics

Complete **one** of the following to fulfill the requirements of the major:

### Political Science — Traditional (20 units)

Select a minimum of 20 units of upper division political science coursework in consultation with major advisor.

### Law & Policy Concentration (20 units)

PSCI 317 (4) Public Policy Process

PSCI 350 (4) U.S. National Politics, **or**

PSCI 410 (4) U.S. Constitutional Law

Complete at least one of the following courses, or all three of the courses above.

CRGS 360 (4) Race, Gender & US Law [DCG-d]

PSCI 313 (4) Politics of Criminal Justice

PSCI 347 (4) U.S. Foreign Policy

PSCI 358 (4) Political Advocacy

PSCI 412 (4) Legal Research

PSCI 441 (4) International Law

Plus additional upper division PSCI courses from any concentration or the list below to total 41 units for the major.

### Politics of Environment & Sustainability Concentration (20 units)

PSCI 306 (3) Environmental Politics &

PSCI 306M (1) Environmental Politics: Majors Research Seminar

Complete at least two of the following courses:

PSCI 352 (4) Water Politics

PSCI 364 (4) Technology & Development

PSCI 365 (4) Political Ecology

PSCI 373 (4) Politics of Sustainability

Plus additional upper division PSCI courses from any concentration or the list below to total 41 units for the major.

### Global Politics Concentration (20 units)

PSCI 343 (4) Global Governance

Complete at least 8 units from the following courses.

PSCI 303 (3) Third World Politics [DCG-n]

PSCI 324 (4) The Arab-Israeli Conflict: History, Narratives & Nationalism

PSCI 330 (4) Political Regimes & Political Change (May be repeated with different world regions or topics)

- PSCI 340 (4) Ethnicity & Nationalism
- PSCI 347 (4) U.S. Foreign Policy
- PSCI 360 (4) Political Economy
- PSCI 441 (4) International Law

*Plus additional upper division PSCI courses from any concentration or the list below to total 41 units for the major.*

**Additional Upper Division Courses**

- PSCI 323 (4) Topics in Political Theory
- PSCI 327 (4) Radical Political Thought
- PSCI 354 (4) Media & Public Opinion
- PSCI 371 (1-4) Experiential Workshop
- PSCI 381S (1) Community Leadership in Action
- PSCI 387 (1) International Education Colloquium
- PSCI 491 (1-4) Mentoring
- PSCI 495 (1-4) Field Research
- PSCI 499 (1-4) Directed Study

**REQUIREMENTS FOR THE MINOR**

**Total units required for the minor: 22**

**Special Grade Requirement**

A minimum grade of C- must be earned for all courses in the minor.

**Lower Division**

*Complete two courses from the following:*

- PSCI 220 (3) Intro to Political Theory
- PSCI 230 (3) Intro to Comparative Politics
- PSCI 240 (3) Intro to International Relations

**Upper Division Electives**

*Complete a minimum of 16 units of 300 or 400 level coursework.*



DRAFT

# PSYCHOLOGY

## Bachelor of Arts degree with a major in Psychology

### Minor in Psychology

## Master of Arts degree in Psychology – Academic Research, Counseling (MFT), School Psychology

### Department Chair

Tasha R. Howe, Ph.D.

### Department of Psychology

Behavioral & Social Sciences 410

707-826-3755

[humboldt.edu/psychology](http://humboldt.edu/psychology)

### The BA Program

There are two pathways for the BA in Psychology. The *Graduate Study Preparation Pathway* is for students who desire an advanced degree in psychology or related discipline or seek a greater understanding of research methods. The *General Psychology Pathway* is for students who plan on obtaining a bachelor's degree in Psychology and then either entering the workforce or obtaining a graduate degree in another field.

Students will demonstrate:

- knowledge of the major concepts, theories, and empirical findings in the core content areas of psychology.
- knowledge of methodological, analytical, and research skills appropriate to the field of psychology.
- knowledge of the sociocultural and contextual nature of psychology.
- knowledge of ethics involved in conducting research and working in the field of psychology.
- skills needed for postbaccalaureate employment, graduate, or professional school.

The Department of Psychology at HSU offers an undergraduate major leading to the BA degree, a minor program, course options for general education requirements and electives, service courses for other majors, and three graduate programs leading to the MA degree, including preparation for the California School Psychology credential, preparation for licensure as a Marriage-Family Therapist (MFT), and an MA program

with content emphases in Neuroscience, Social and Environmental Psychology, Developmental Psychology, and Behavior Analysis.

Students have access to neuroscience laboratories, research and computer labs, a library of psychological tests and measurements, and other resources for psychological research and applications.

The BA degree with a major in psychology is excellent preparation for graduate school and careers. Many of our students have been accepted into prestigious nationally recognized Ph.D. programs and many have gone on to master's degree programs. The psychology major (graduate study preparation pathway) provides the background needed for graduate programs in most areas of psychology. Typically, those professions require a Ph.D. or MA degree. Executives, lawyers, and business leaders often have a bachelor's degree in psychology and advanced degrees in other areas. If you are not planning on graduate school, psychology graduates (on both paths) still leave with a number of highly marketable skills such as the ability to collect, organize, analyze, and interpret data; write reports and proposals clearly and objectively; communicate effectively and sensitively in both individual and group situations; obtain information about problems through library research and personal contacts; and identify problems and suggest solutions critical thinking and interpersonal skills.

A BA degree in psychology is helpful in health and social service professions, such as nursing and social work, as well as, in other career areas such as counseling, media, management, survey research, assessment or program evaluation, and law enforcement.

The master's degree in psychology, combined with an appropriate credential or license, may lead to careers such as school psychologist, counselor in a social service agency, marriage and family therapist, or board certified behavior analyst.

Traineeships and internships with local public and private agencies are arranged for gradu-

ate students in counseling, behavior analysis, and school psychology. The department's counseling clinic provides additional supervised opportunities for counseling graduate students. The School Psychology practicum provides graduate students assessment practice regarding learning and other cognitive disabilities in college students.

### Preparation

High school algebra is required and courses in biology are recommended.

### REQUIREMENTS FOR THE MAJOR (Bachelor of Arts)

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### Unit Requirements

**Total units in the major: 39-46**

**Total units required for the degree: 120**

### Lower Division

Select **one** pathway.

#### General Psychology Pathway

PSYC 104 (3) Introduction to Psychology  
PSYC 240 (3) Understanding Research  
in Psychology

#### Graduate Study Preparation Pathway

PSYC 104 (3) Introduction to Psychology  
PSYC 241 (4) Introduction to  
Psychological Statistics  
PSYC 242 (4) Introduction to  
Psychological Research  
Design & Methodology

Additional Upper Division Requirement (1-2 units). Complete at least one of the core content corequisite "D" discussion or breadth courses listed below. The total for the core content will increase to 20 units or the breadth will increase to 13 units, depending on the course selected.

PSYC 311D (2) Human Development  
Discussion

PSYC 320 (4) Behavior Analysis

PSYC 324D (2) Cognitive Psychology  
Discussion

PSYC 325 (4) Advanced Behavioral  
Neuroscience

PSYC 335D (2) Social Psychology  
Discussion

PSYC 337D (2) Personality Theory &  
Research Discussion

PSYC 345L (4) Psychological Testing &  
Measurement

**NOTE:** The Psychology Department requires that all psychology students adhere strictly to the Ethical Standards of Psychologists, published by the American Psychological Association, and to all department procedures and policies concerning use of humans and nonhumans as experimental participants. Failure to comply will result in immediate expulsion from the department's programs, courses, and facilities.

## Upper Division Coursework

The following upper division coursework is required for all undergraduate psychology majors (either pathway)

### Core Content Areas in Psychology (18 units)

Complete six of the following seven courses.

PSYC 311	(3)	Human Development
PSYC 321	(3)	Intro Behavioral Neuroscience
PSYC 322	(3)	Learning & Motivation
PSYC 324	(3)	Cognitive Psychology
PSYC 335	(3)	Social Psychology
PSYC 337	(3)	Personality Theory & Research
PSYC 438	(3)	Dynamics of Abnormal Behavior

### Breadth Requirements (12 units)

Complete 12 units from the following:

PSYC 300	(3)	Psychology of Gender [DCG-d]
PSYC 302	(3)	Psychology of Prejudice [DCG-d]
PSYC 303	(3)	Family Relations in Contemporary Society
PSYC 304	(3)	Business Psychology
PSYC 320	(4)	Behavior Analysis
PSYC 323	(3)	Sensation & Perception
PSYC 325 †	(4)	Advanced Behavioral Neuroscience
PSYC 336	(3)	Social Influence & Persuasion
PSYC 345L	(4)	Psychological Tests & Measurement
PSYC 400	(3)	Health Psychology
PSYC 411	(3)	Social Neuroscience
PSYC 414	(3)	Psychology of Adolescence & Young Adulthood
PSYC 415	(3)	Psychology of Aging & Older Adulthood
PSYC 418	(3)	Developmental Psychopathology
PSYC 419	(3)	Family Violence
PSYC 436	(3)	Human Sexuality
PSYC 437	(3)	Sexual Diversity [DCG-d]
PSYC 454	(3)	Interviewing & Counseling Techniques
PSYC 473	(3)	Substance Use & Addiction
PSYC 478	(4)	Analysis of Variance
PSYC 488	(4)	Regression/Multivariate Topics
PSYC 489S	(3)	Community Psychology

† Course requires a prerequisite that is not required in the general pathway. See course description for prerequisites.

No more than 3 units from the following section may be applied to the breadth requirement.

PSYC 480	(.5-3)	Selected Topics in Psychology
PSYC 482	(1-4)	Field Study
PSYC 495	(1-4)	Research in Psychology
PSYC 496	(3)	Psychology Research Seminar
PSYC 497	(1-3)	Mentoring
PSYC 499	(1-3)	Independent Study

### Capstone Experience (3 units)

Complete one of the following:

PSYC 485	(3)	Senior Seminar
PSYC 486	(3)	History & Systems of Psychology
PSYC 487	(3)	Evolutionary Psychology
PSYC 490	(3)	Senior Honors Thesis
PSYC 600 series		Advanced Seminars (IA)

## REQUIREMENTS FOR THE MINOR

**Total units required for the minor: 18**

Complete at least 18 units, 9 of which must be upper division. At least 3 units must be completed at Humboldt State.

### Introductory Phase (6 units)

PSYC 104	(3)	Introduction to Psychology
PSYC 240	(3)	Understanding Research in Psychology

### Core Content Areas (6 units)

Complete two courses from the Core Content Areas in Psychology course list [see requirements for the major].

### Upper Division Breadth (6 units)

Complete two courses from the breadth requirements approved course list. [see requirements for the major].

## THE MASTER OF ARTS DEGREE IN PSYCHOLOGY PROGRAM

Humboldt offers three concentrations, Academic Research, Counseling (MFT), and School Psychology, within the Master of Arts degree in Psychology.

### Program Admission Procedures

The following admission procedures are required for all concentrations.

- A California State University application form. All applicants apply to the university through [calstate.edu/apply](http://calstate.edu/apply).
- Official transcripts of all college-level work (from every institution attended). Current HSU students need not request transcripts.
- Three letters of recommendation demonstrating academic and professional

## Programs Leading to Licensure & Credentialing

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or taxpayer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees or any associated costs to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Office of Academic Affairs, Siemens Hall 216, 707-826-3722.

potential. At least one from faculty, the others can come from employers or professionals.

Each concentration maintains different admission requirements and prerequisites. It is essential, therefore, that students contact the Department of Psychology for specific information.

## REQUIREMENTS FOR THE DEGREE MASTER OF ARTS

For a description of degree requirements to be fulfilled in addition to those listed below see, "The Master's Degree" section of the catalog, pp. 83-84.

All three concentrations require recommendation by the department for advancement to candidacy and a minimum GPA of 3.00 in all work toward the degree, with no grade lower than a B-. In School Psychology, one grade of C or below in a required course results in probation; two grades of C or below result in dismissal from the program.

Each concentration requires a separate program of coursework. Contact the Department of Psychology for further information.

## Master of Arts degree in Psychology: Academic Research Concentration

This Academic Research Program offers a master's degree with a focus of study in one of four emphasis areas: Social/Cognitive, Neuroscience, Developmental, and Behavior Analysis. Each area provides a background in methodology and statistics that is paired with courses relevant to the area.

### Program Coordinator

Chris Aberson, Ph.D.  
707-826-3670

### Program Admission Requirements (Academic Research Concentration)

In addition to Humboldt State University requirements, the Department of Psychology requires the following criteria be met for admission to the program as a classified graduate student:

- A bachelor's degree from an accredited institution or equivalent
- Statement of purpose
- Selection of a specialization area and desired thesis advisor
- A minimum undergraduate grade-point average (GPA) of 3.25 in psychology courses.

### Program Prerequisites

- Completion of 24 units of undergraduate coursework in psychology including PSYC 104 (Introduction to Psychology), PSYC 241 (Introduction to Psychological Statistics), and PSYC 242 (Introduction to Research Design & Methodology) or equivalent course(s).
- Neuroscience Emphasis  
BIOL 105 (Principles of Biology), CHEM 107 (Fundamentals of Chemistry), PSYC 321 (Intro Behavioral Neuroscience), and PSYC 325 (Advanced Behavioral Neuroscience) or equivalent.
- Social & Cognitive Emphasis  
PSYC 302 (Psychology of Prejudice) and PSYC 335 (Social Psychology) or equivalent.
- Developmental Emphasis  
PSYC 311 (Human Development) or CD 350 (Perspectives: Life-Span Development), PSYC 438 (Dynamics of Abnormal Behavior), and CD 464 (Atypical Child Development) or PSYC 418 (Developmental Psychopathology) or equivalent.
- Behavior Analysis Emphasis  
PSYC 320 (Behavior Analysis) and PSYC 322 (Learning and Motivation) or equivalent.

Admission will also be based on a match between student and faculty interests and the willingness of a faculty member to supervise the student's thesis or project research. We strongly recommend that students contact faculty in their area prior to application.

A student may be conditionally admitted to the program if the undergraduate degree lacks one or more prerequisite courses within their area of specialization.

## Master of Arts degree in Psychology: Academic Research Concentration

**Total units required for the degree: 30**

At least 30 units in psychology or supporting courses as defined by emphases or approved by graduate committee. At least half of these must be at the graduate (500-600) level.

### Required Courses

*Complete the following three courses during the first year:*

- PSYC 641 (3) Research Methods: Philosophy & Design
- PSYC 642 (2) Research Methods: Evaluation
- PSYC 647 (3) Academic Research Proseminar

*Complete one of the following:*

- PSYC 578 (4) Analysis of Variance
- PSYC 588 (4) Regression/Multivariate Topics

*Continuous enrollment in:*

- PSYC 690 (1-6) Thesis, **or**
- PSYC 692 (1-3) School Psychology Portfolio Project

Completion of either a thesis or project as a culminating experience.

### Emphases

*Complete additional courses outlined in one of the following emphases.*

#### Neuroscience Emphasis

Neuroscience is the study of the physiological bases of behavior, particularly how the brain affects behavior. The Neuroscience Emphasis provides an extensive background in biological bases of behavior and numerous research opportunities. Our program prepares students for application to Ph.D. programs in the field of biological psychology and neuroscience. Students with degrees in biology (or closely related fields) may apply for conditional admission to the neuroscience emphasis without 24 units of psychology courses, if they have completed PSYC 104, PSYC 241, and PSYC 242 (or equivalents). These students would complete prerequisite undergraduate courses, in addition

to the required program coursework, after admission to the program to bring their total undergraduate psychology coursework to 24 units.

### Required Courses (6 units)

- PSYC 625 (3) Advanced Psychobiology
- PSYC 672 (3) Psychopharmacology

### Elective Courses (9-19 units)

- PSYC 487 (3) Evolutionary Psychology
- PSYC 578 (4) Analysis of Variance, **or**
- PSYC 588 (4) Regression/Multivariate Topics
- PSYC 683 (1-3) Graduate Teaching Assistantship
- PSYC 684 (1-3) Graduate Teaching Internship

PSYC 480/680 or other courses relevant to the concentration as approved by advisor and AR coordinator. Students may count 578/588 toward one elective if they complete both courses (see Requirements for Degree)

### Social & Cognitive Emphasis

The Social and Cognitive emphasis focuses on how thoughts, feelings, and behaviors are influenced by others and the mental processes underlying these influences. Our program prepares students for application to Ph.D. programs in either Social or Cognitive Psychology.

### Required Courses (7 units)

- PSYC 345L (4) Psychological Tests & Measurement
- PSYC 405 (3) Environmental Psychology

### Elective Courses (8-19 units)

- PSYC 336 (3) Social Influence & Persuasion
- PSYC 487 (3) Evolutionary Psychology
- PSYC 578 (4) Analysis of Variance, **or**
- PSYC 588 (4) Regression/Multivariate Topics
- PSYC 635 (3) Advanced Social Psychology
- PSYC 683 (1-3) Graduate Teaching Assistantship
- PSYC 684 (1-3) Graduate Teaching Internship

PSYC 480: Selected Topics in Psychology; PSYC 680: Selected Topics in Contemporary Psychology, or other courses relevant to the concentration as approved by advisor and graduate coordinator.

Students may count PSYC 578: Analysis of Variance/PSYC 588: Regression/Multivariate Topics toward one elective if they complete both courses (see Requirements for Degree)

### Developmental Emphasis

Developmental psychology is the study of human development from both normal and atypical development. The Developmental Emphasis prepares students to work with a wide variety of children and their families or pursue Ph.D. study.

#### Required Courses (13 units)

- PSYC 345L (4) Psychological Tests & Measurement  
PSYC 419 (3) Family Violence  
PSYC 518 (3) Advanced Developmental Psychopathology  
PSYC 638 (3) Adv. Psychopathology: Diagnosis of Mental Disorder

#### Elective Courses (2-19 units)

- PSYC 303 (3) Family Relations in Contemporary Society  
PSYC 414 (3) Psychology of Adolescence & Young Adulthood  
PSYC 578 (4) Analysis of Variance, **or**  
PSYC 588 (4) Regression/Multivariate Topics  
PSYC 632 (3) Advanced Developmental Psychology  
PSYC 683 (1-3) Graduate Teaching Assistantship  
PSYC 684 (1-3) Graduate Teaching Internship

PSYC 480/680 or other courses relevant to the concentration as approved by advisor and AR coordinator.

Students may count PSYC 578: Analysis of Variance/PSYC 588: Regression/Multivariate Topics toward one elective if they complete both courses (see Requirements for Degree)

### Behavior Analysis Emphasis

Behavior analysis is the design, implementation, and evaluation of instructional and environmental modifications to produce improvements in human behavior through skill acquisition and the reduction of problematic behavior. The Behavior Analysis Emphasis develops students' skills in conducting behavioral research and providing applied behavioral intervention services for children and adults in areas including education, developmental disabilities, and behavioral consulting. This program is designed to provide the coursework that constitutes part of the requirements for becoming a Board Certified Behavior Analyst.

#### Required Courses (21 units)

- PSYC 622 (3) Advanced Learning and Behavior

- PSYC 655 (3) Social-Behavioral Evaluation  
PSYC 680 (1) Professional Ethics in Behavior Analysis  
PSYC 682 (6) Fieldwork [6 units total over two semesters]  
PSYC 683 (3) Teaching Assistantship (for PSYC 320)  
EDUC 680 (2) Single-Subject Research Methods  
SPED 654 (3) Advanced Behavioral, Emotional, and Environmental Supports

#### 5th Year (Blended) Pathway

Students may also apply while in undergraduate status to begin graduate coursework, allowing for the completion of the B.A. and M.A. in five years total. We strongly encourage HSU students who satisfy the admission requirements below to apply for the program in their junior year. Students applying for this program should discuss applying with their desired thesis chair.

#### 5th Year Prerequisites and Program Admission Requirements

- All requirements listed in the section above titled Prerequisites and Program Admission Requirements, except completion of B.A.
- Completion of the departmental application (contact department office for form)
- Admission is also based on a match between student and faculty interests and the willingness of a faculty member to supervise the student's thesis or project research.

#### 5th Year Requirements for Degree

All requirements listed in the section above titled Requirements for Degree (All Specializations) with the following deviations:

- Complete PSYC 641: Research Methods: Philosophy & Design and PSYC 642: Research Methods: Evaluation during undergraduate senior year.
- Complete PSYC 647: Academic Research Proseminar during the 5th year.

### Master of Arts degree in Psychology: Counseling Concentration

This master's degree in psychology is accredited by the California Board of Behavioral Sciences and provides most coursework for the Marriage and Family Therapist (MFT) and Licensed Professional Clinical Counselor licenses. Successful completion will allow the candidate to apply for internship status with the Board to accrue the post-degree

hours of supervised practice necessary for state licensure.

#### Program Coordinators

Carrie Aigner, Ph.D.  
Jen Petullo, M.A., LMFT.  
707-826-3757

#### The Program

Students completing this program will have demonstrated:

- workable knowledge of standard psychotherapeutic techniques
- knowledge of and conformance to the laws, regulations, and professional ethics related to the practice of a master's level psychotherapist
- the ability to understand and utilize research related to the field of counseling psychology
- appreciation and knowledge of issues of race, gender, ethnicity, sexual orientation, and religions as they relate to providing effective psychotherapeutic interventions.

The master's program counseling concentration provides a solid foundation in clinical theory and research, along with extensive training in clinical skills. Supervised fieldwork/practica are a required part of the program, including experience in our on-site counseling clinic. Students are required to either pass a cumulative exam or complete a master's thesis. The cumulative exam is given in the fourth semester. The program is administered by a faculty committee that plans the curriculum, makes program policy, and selects students for admission.

#### Prerequisites for Admission

The following courses must be completed before the start of the program: Introduction to Psychology, Introduction to Research Design in Psychology, and Introductory Statistics.

At least two courses in: abnormal psychology, human development, personality theory, neuroscience, cognitive psychology, interviewing and counseling.

#### Program Admission Requirements

- A bachelor's degree with a minimum GPA of 3.00
- Some experience in human services and/or research
- Goals that match the program's objectives
- The potential for becoming an effective and ethical psychotherapist
- Resume
- Prerequisite verification form
- Demonstrated excellence in oral and written communication

## Courses

### First Semester (sample schedule)

- PSYC 641 (3) Research Methods: Philosophy & Design  
PSYC 654 (3) Interviewing & Counseling Techniques  
PSYC 658 (3) Theories of Individual Counseling & Psychotherapy  
PSYC 660 (3) Law & Ethics in Psychology  
PSYC 662 (1) Practicum Preparation

### Second Semester

- PSYC 518 (3) Advanced Developmental Psychopathology  
PSYC 636 (1) Sexuality Counseling  
PSYC 638 (3) Advanced Psychopathology: Diagnosis of Mental Disorders  
PSYC 642 (2) Research Methods: Evaluation  
PSYC 656 (3) Couples Therapy (includes spousal abuse treatment requirement)  
PSYC 682 (1-6) Fieldwork (to include individual supervision)  
PSYC 690 (2) Thesis (optional)

### Third Semester

- PSYC 653 (3) Advanced Psychotherapy with Children & Families  
PSYC 663 (1) Licensed Supervision  
PSYC 664 (3) Assessment & Testing for Psychotherapists  
PSYC 676 (3) Cross Cultural Counseling for Individuals, Children & Families  
PSYC 682 (1-6) Fieldwork  
PSYC 690 (2) Thesis (optional)

### Fourth Semester

- PSYC 636 (1) Sexuality Counseling  
PSYC 640 (1) Aging & Long-Term Care  
PSYC 657 (3) Group Counseling & Group Psychotherapy  
PSYC 663 (1) Licensed Supervision  
PSYC 672 (3) Psychopharmacology  
PSYC 673 (1) Mental Health Addiction & Recovery  
PSYC 682 (1-6) Fieldwork  
PSYC 690 (2) Thesis (optional)  
PSYC 691 (2) Comprehensive Exam for Counselors (optional)

**NOTE:** Some one-unit courses may be offered as a weekend course or on a Friday.

**NOTE:** Students who are unable to complete the required number of practicum hours by the end of their fourth semester, must register for an additional semester of PSYC 682 and PSYC 663.

## Master of Arts degree in Psychology: School Psychology Concentration

Master's degree in psychology and a California Credential authorizing service as a school psychologist. At program completion, students are recommended to the California Commission on Teacher Credentialing for a Pupil Personnel Services Credential with an authorization to practice as a school psychologist. Students are eligible to sit for the national licensing exam to become a Nationally Certified School Psychologist (NCSP).

### Program Coordinator

Francis De Matteo, Ed. D., NCSP  
707-826-4047

### The Program

Graduates of this program enter careers as school psychologists in California public schools and assume positions as educational leaders in the area of pupil personnel services. Sequenced coursework and integrated field experience in school and community settings are integral aspects of the program. In addition to all course and fieldwork requirements, each candidate for the MA degree with a concentration in school psychology is required to complete a comprehensive portfolio containing examples of work in all of the California domains of professional practice. Students may also choose to complete a formal thesis as part of their MA degree.

### Prerequisites for Admission

Courses in: general psychology, research methods, developmental psychology, introductory statistics, personality theory or abnormal psychology, and psychological tests and measurement.

### Program Admission Requirements

- Resume
- Statement of intent
- Prerequisite Verification Form
- CBEST Exam Verification (to be completed by the end of the first semester.)

### First Semester

- PSYC 605 (3) Psychological Foundations/School Psychology  
PSYC 616 (3) Cognitive Assessment I  
Cognitive/Biological Bases of Behavior  
PSYC 641 (3) Research Methods  
Philosophy & Design  
PSYC 654 (3) Interviewing & Counseling  
Techniques

### Second Semester

- PSYC 606 (2) Educational Foundations/School Psychology  
PSYC 617 (3) Cognitive Assessment II  
Cognitive/Biological Bases of Behavior  
PSYC 642 (2) Research Methods: Evaluation  
PSYC 651 (3) Diagnosis & Treatment of Children for the School Psychologist I – Cognitive & Academic Difficulties  
PSYC 669 (3) Legal & Ethical Foundations in School Psychology  
PSYC 690 (1-6) Thesis (optional)  
PSYC 692 (1) School Psychology Portfolio Project  
PSYC 783 (4) School Psychology Practicum

### Third Semester

- PSYC 607 (2) Consultation/Collaboration  
PSYC 608 (2) Advanced Assessment/Case Presentation  
PSYC 655 (3) Social-Behavioral Evaluation  
PSYC 676 (3) Cross Cultural Counseling for Individuals, Children & Families  
PSYC 690 (1-6) Thesis (optional)  
PSYC 783 (4) School Psychology Practicum

### Fourth Semester

- PSYC 659 (3) Mental Health in K-12 Schools  
PSYC 690 (1-6) Thesis (optional)  
PSYC 692 (2) School Psychology Portfolio Project  
PSYC 783 (4) School Psychology Practicum

### Internship (Third Year)

- PSYC 692 (3) School Psychology Portfolio Project  
PSYC 693 (0) Comprehensive Exam: School Psychology  
PSYC 784 (6-12) School Psychology Internship



# RANGELAND RESOURCE SCIENCE

## **Bachelor of Science degree with a major in Rangeland Resource Science**

**Bachelor of Science degree  
with a major in Rangeland Resource  
Science** — concentration in Wildland  
Soil Science

## **Minor in Rangeland Resource Science**

## **Minor in Wildland Soil Science**

See *Natural Resources* for information on  
the *Master of Science* degree.

## **Department Chair**

David F. Greene, Ph.D.

## **Rangeland Ecology & Management Lead**

Susan Edinger Marshall

## **Department of Forestry & Wildland Resources**

Forestry Building 205  
707-826-3935  
humboldt.edu/fwr

## **The Program**

Students completing this program will be able to:

- Identify plants and quantify vegetation attributes
- Describe, classify and evaluate soil resource attributes
- Evaluate rangeland health using national standards
- Communicate effectively, using oral and written means, the factual basis, interconnectedness, and interpretation of rangeland/wildland soil science and management
- Demonstrate reasoning and critical thinking skills in solving scientific and resource management problems

**Rangeland Resource Science.** Learn to manage rangeland ecosystems wisely. Study forage, timber, wildlife, recreation, watersheds, and their interrelationships.

Classroom instruction is enhanced by the university's plant, soil, and animal science laboratories. Humboldt also has a range herbarium. Nearby privately owned ranches and federal lands offer excellent opportunities for field study.

Potential careers: range conservationist, biological technician, range manager, environmental specialist, agricultural inspector, lands specialist, soil conservationist or soil scientist, range consultant, natural

resources specialist, watershed manager, or ecosystem restoration specialist.

The Rangeland Resource Science concentration meets the qualifications for "Rangeland Management Specialist" and "Soil Conservationist" classifications for federal employment, and meets the educational requirements to apply to take the California Certified Rangeland Manager examination.

## **Wildland Soil Science Concentration.**

Learn to address the unique management requirements and problems of wildland soils. Wildland soils are uncultivated, natural soils supporting herbaceous and woody plant communities supplying timber, wildlife habitat, livestock forage, watershed values, and other ecosystem services.

Courses in this concentration cover the basic physical and biological sciences, introductory and advanced soil science, and soil and natural resource management.

Classroom instruction is enhanced by the university's soil science laboratories and greenhouses. Research and demonstration sites on private and public lands in Northern California enhance field studies.

Potential careers: soil conservationist, soil scientist, soil consultant, environmental specialist, agricultural inspector, lands or natural resources specialist, restoration specialist, or watershed manager.

The Wildland Soil Science Concentration meets the qualifications for "Soil Conservationist" and "Soil Scientist" position classifications in federal employment. This concentration also meets the educational requirements to take the Fundamentals of Soil Science Examination.

## **Preparation**

In high school take courses in biology, chemistry, mathematics, and earth sciences.

## **REQUIREMENTS FOR THE MAJOR**

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

## **Unit Requirements**

**Core units:** 74  
**Concentration units:** 16-22  
**Total units in the major:** 90-96  
**Total units required for the degree:** 120

## **Special Grade Requirement**

Complete all courses in the major with a C- or better.

## **Core Courses (74 units)**

### **Lower Division**

BIOL 105	(4) Principles of Biology
BOT 105	(4) General Botany
CHEM 107	(4) Fundamentals of Chemistry
ESM 105	(3) Natural Resource Conservation
GSP 101/GSP 101L	(2/1) Geospatial Concepts and Lab
GSP 216	(3) Introduction to Remote Sensing, <b>or</b>
GSP 270	(3) Geographic Information Science (GIS)
PHYX 106	(4) College Physics: Mechanics & Heat
SCI 100	(3) Becoming a STEM Professional in the 21st Century
SOIL 260	(3) Intro to Soil Science
STAT 109	(4) Introductory Biostatistics

### **Upper Division**

BOT 310	(4) General Plant Physiology
BOT 350	(4) Plant Taxonomy
ESM 305	(3) Environmental Conflict Resolution
FOR 315	(3) Forest Management
FOR 359	(3) CA & US Forest & Wildland Policy
RRS 306	(3) Wildland Resource Principles
RRS 360	(3) Wildland Plant Communities
RRS 370	(3) Wildland Ecology Principles
RRS 375	(3) Vegetation Analysis & Health
SOIL 360	(3) Origin & Classification of Soils
SOIL 460	(3) Wildland Soil Management & Erosion Control
WSHD 310	(4) Hydrology & Watershed Management

*Select Rangeland Resource Science or the Wildland Soil Science Concentration and an associated emphasis.*

## Rangeland Resource Science (20-22 units)

See core course requirements.

ESM 215	(3) Natural Resources & Recreation, <b>or</b>
FOR 321	(3) Fire Ecology (required for Fire Emphasis), <b>or</b>
WLDF 301	(3) Principles of Wildlife Management
ECON 423	(3) Environmental & Natural Resource Economics
RRS 420	(3) Intro to Animal Science
RRS 430	(3) Wildland Restoration & Development
RRS 460	(3) Rangeland & Ranch Planning

### Approved Electives / Emphases

Complete one of the following emphases for the Rangeland Resource Science concentration (5-7 units), or any combination of courses below or advisor-approved electives totaling a minimum of 6 units.

#### Botany Emphasis (6 units)

Complete a minimum of 6 units selected from:

BOT 354	[4] Agrostology
BOT 355	[4] Lichens & Bryophytes
BOT 358	[2] Biology of the Microfungi
BOT 359	[2] Biology of the Ascomycetes & Basidiomycetes
BOT 360	[2] Biology of the Fleshy Fungi

#### Ecological Restoration Emphasis (7 units)

ESM 355	[3] Principles of Ecological Restoration
ESM 455	[4] Applied Ecological Restoration

#### Geospatial Technology Emphasis (6 units)

Complete 6 units of advisor-approved GSP courses (not already taken in core requirements)

#### Fire Emphasis (5 units)

FOR 223	(2) Introduction to Wildland Fire
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and one of the following:

FOR 323	(3) Wildland Fire Behavior & Use
FOR 423	(3) Wildland Fuels Management

#### Natural Resource Policy Emphasis (6 units)

ESM 210	(3) Public Land Use Policies & Management
ESM 325	(3) Environmental Law & Regulation

#### Soil Emphasis (6 units)

Complete two of the following courses.

SOIL 363	[3] Wetland Soils
SOIL 462	[3] Soil Fertility
SOIL 465	[3] Soil Microbiology
SOIL 467	[3] Soil Physics

#### Wildland Soil Science Concentration

See core course requirements.

Soil courses are embedded in this concentration to meet federal "Soil Scientist" requirements.

In addition to core courses, complete one of the following emphases for the Wildland Soil Science Concentration or any combination of the courses below or advisor-approved electives totaling a minimum of 18 additional units.

#### Botany Emphasis (18 units)

Complete a minimum of 6 units from the following:

BOT 354	[4] Agrostology
BOT 355	[4] Lichens & Bryophytes
BOT 358	[2] Biology of the Microfungi
BOT 359	[2] Biology of the Ascomycetes & Basidiomycetes
BOT 360	[2] Biology of Fleshy Fungi

Complete 12 units from the following:

FOR 130	[3] Dendrology
SOIL 363	[3] Wetland Soils
SOIL 462	[3] Soil Fertility
SOIL 465	[3] Soil Microbiology
SOIL 468	[3] Intro to Agroforestry

#### Earth Sciences Emphasis (19-20 units)

GEOLOGY 109	[4] General Geology
GEOLOGY 306	[3] General Geomorphology
SOIL 467	[3] Soil Physics

Complete one additional GSP course not taken in the core (3-4 units)

Complete 6 units from the following:

SOIL 363	[3] Wetland Soils
SOIL 462	[3] Soil Fertility
SOIL 465	[3] Soil Microbiology

#### Ecological Restoration Emphasis (19 units)

ESM 355	[3] Principles of Ecological Restoration
ESM 455	[4] Applied Ecological Restoration
RRS 430	[3] Wildland Restoration & Development
SOIL 363	[3] Wetland Soils

Complete two of the following courses.

SOIL 462	[3] Soil Fertility
SOIL 465	[3] Soil Microbiology
SOIL 467	[3] Soil Physics

SOIL 468	[3] Intro to Agroforestry
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#### Sustainable Agriculture Emphasis (16 units)

Complete three of the following courses.

SOIL 363	[3] Wetland Soils
SOIL 462	[3] Soil Fertility
SOIL 465	[3] Soil Microbiology
SOIL 467	[3] Soil Physics
SOIL 468	[3] Intro to Agroforestry

Complete one of the following courses.

BA 430	[4] Introduction to New Ventures
PSCI 365	[4] Political Ecology
PSCI 373	[4] Politics of Sustainability

Complete one of the following courses.

WSHD 333	[3] Wildland Water Quality
WSHD 458	[3] Climate Change & Land Use

## REQUIREMENTS FOR THE MINORS

### Rangeland Resource Science Minor

Total units required for the minor: 18

ESM 105	(3) Natural Resource Conservation
SOIL 260	(3) Intro to Soil Science
RRS 306	(3) Wildland Resource Principles
RRS 360	(3) Wildland Plant Communities
RRS 370	(3) Wildland Ecology Principles
RRS 375	(3) Vegetation Analysis & Health

### Wildland Soil Science Minor

Total units required for the minor: 18

SOIL 260	(3) Intro to Soil Science
SOIL 360	(3) Origin & Classification of Soils
SOIL 460	(3) Wildland Soil Management & Erosion Control

At least three courses (including one or more with plus signs †) from the following:

GEOLOGY 306†	(3) General Geomorphology
SOIL 363	(3) Wetland Soils
SOIL 462	(3) Soil Fertility†
SOIL 465	(3) Soil Microbiology†
SOIL 467	(3) Soil Physics†
SOIL 468	(3) Intro to Agroforestry
WSHD 310	(4) Hydrology & Watershed Management, <b>or</b>
WSHD 424	(3) Watershed Hydrology



† Course requires a prerequisite that is not required elsewhere in the major.

# RECREATION ADMINISTRATION

## Bachelor of Arts degree with a major in Recreation Administration

### Minor in Recreation Administration

#### Department Chair

Chris Hopper

#### Department of Kinesiology & Recreation Administration

Kinesiology & Athletics 305  
707-826-4538  
humboldt.edu/kra

### The Program

Students completing this program will be able to:

- develop, implement and evaluate traditional leisure services and programs within their specified professional pathway area;
- identify and create leisure opportunities that maximize participation for diverse populations;
- apply effective professional communication, leadership, and management to the leisure industry;
- select, implement, and evaluate appropriate technologies as related to the leisure industry; and
- apply professional knowledge, skills, and abilities to field-based work experiences within the general area of recreation administration and within their professional pathway.

Recreation majors have many fieldwork choices through the abundance of nearby parks, wilderness areas, lakes, beaches, rivers, and leisure-oriented organizations.

Students round out their education by completing a minor (or minor field of study) in business administration and an internship. The internship may be taken any semester, with the summer option offered through the College of Extended Education & Global Engagement.

Organizations employing recreation administration graduates include: community parks, volunteer agencies, corporate wellness programs, college recreation programs, commercial recreation centers, therapeutic recreation programs, tourism organizations and outdoor education and recreation programs.

### REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

### Unit Requirements

Core units:	28
Emphasis units:	15-16
Business requirement units:	12-18
Total units in the major:	55-62
Total units required for the degree:	120

### Special Grade Requirement

Students must earn a C- or better in all required courses for the major (or their equivalent, in the case of courses transferred from another institution).

### Core Courses (28 units)

#### Lower Division

REC 100	(3) Leisure in Society
REC 210	(3) Recreation Leadership
REC 220	(3) Leisure Programming
Plus one physical education course (1)	

#### Upper Division

REC 302	(3) Inclusive Recreation
REC 320	(3) Organization, Admin. & Facility Planning
REC 420	(3) Legal & Financial Aspects of Recreation
REC 455	(1) Internship & Career Preparation Workshop
REC 482	(6) Internship in Recreation
REC 485	(2) Senior Seminar

### Emphases (15-16 units)

Complete one of the following emphases to fulfill the requirements of the major.

#### Diving Leadership Emphasis (16 units)

REC 252	(1) Diving First Aid, Introduction to HSU Diving
REC 262	(4) Beginning SCUBA
REC 362	(4) Master Diver
REC 383	(3) Rescue Diver
REC 472	(4) Leadership Diving: Assistant Instructor

#### Inclusive Communities Emphasis (15 units)

REC 410	(3) Healthy Communities Through Recreation
REC 415	(3) Leisure and Aging

Complete three of the following courses.

HED 392	(3) Community & Population Health
PSYC 400	(3) Health Psychology
REC 330	(3) Adventure Theory & Practice
REC 345	(3) Environmental Education
REC 481	(3) Recreation Practicum
	(3) Child Development course (advisor-approved)

### Outdoor Adventure Recreation Emphasis (15 units)

REC 330	(3) Adventure Theory & Practice
REC 370	(3) Outdoor Adventure Rec
REC 375	(2) Winter Adventure Leadership
REC 430	(4) Expedition Planning & Leadership

Complete one of the following courses.

REC 345	(3) Environmental Education
REC 435	(3) Sustainable Tourism
REC 481	(3) Recreation Practicum

### Tourism Management Emphasis (15 units)

REC 335	(3) Tourism Planning & Development
REC 365	(3) Travel Industry Mgmt.
REC 435	(3) Sustainable Tourism

Complete two of the following courses.

REC 330	(3) Adventure Theory & Practice
REC 345	(3) Environmental Education
REC 370	(3) Outdoor Adventure Recreation
REC 415	(3) Leisure and Aging
REC 481	(3) Recreation Practicum

### Self-Designed Emphasis (15 units)

Students may design their own emphasis with a minimum of 15 units of thematic upper-division coursework; at least 6 units must be in recreation administration (REC) courses. The self-designed emphasis must be approved by two members of the Recreation Administration faculty.

### Business Requirement (12-18 units)

Complete a minor in business (18 units) — obtain requirements from the School of Business) **OR**  
Complete a minimum of 12 units of business and/or economics advisor-approved coursework. 8 units must be upper division.

### REQUIREMENTS FOR THE MINOR

Total units required for the minor: 18

#### Required Courses

REC 100	(3) Leisure in Society
REC 210	(3) Recreation Leadership
REC 220	(3) Leisure Programming
REC 302	(3) Inclusive Recreation
REC 320	(3) Organization, Admin. & Facility Planning
REC 420	(3) Legal & Financial Aspects of Recreation



# RELIGIOUS STUDIES

## Bachelor of Arts degree with a major in Religious Studies

### Minor in Religious Studies

#### Department Chair

Vincent Biondo, Ph.D.

#### Religious Studies Department

Founders Hall 201  
707-826-4126, fax 826-3205  
religiousstudies.humboldt.edu

#### The Program

Students will demonstrate religious literacy, recognizing and understanding diverse cultural expressions as they appear in contexts of religious traditions, sacred texts, international and domestic politics, the arts, and their own interpersonal relationships.

Students will practice authentic self-reflection and decision-making as they determine for themselves matters concerning belief, practice, values, meaning, and purpose in their lives.

Students will master phenomenological approaches to the understanding of religious and cultural variation, enabling them to engage diversity directly, with both generosity and justice.

Through their work in classes, but also in extra-curricular activities, students will manifest sound professionalism in such matters as time management, attendance, fulfillment of responsibilities, the ability to follow directions, comportment, and courtesy.

The objectives of the religious studies major are best attained in the context of a liberal arts education. The curriculum lets students develop an awareness of the capacity for scholarship, and disciplined and objective thought on the subject of religion.

The program avoids dogmatism as well as unquestioning faith or belief, approaching this area of human inquiry with the same objectivity achieved elsewhere in the humanities: requiring fairness with regard to the evidence, respect for reasonable differences in points of view and the avoidance of any attempts to proselytize.

With differing world cultures coming into contact ever more frequently in every field of endeavor, a religious studies undergraduate degree proves highly relevant. It allows students to discover, examine and gain insight into and sensitivity toward the socio-politico-religious similarities and differences in world cultures.

The religious studies major at Humboldt State University is unique in its exploratory nature. Courses cover a variety of subjects, offering the opportunity to understand the meaning of religion as it has been developed both culturally and personally.

#### REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

#### Unit Requirements

Total units in the major: **33-35**

Total units required for the degree: **120**

#### Introduction

- RS 105 (3) World Religions
- RS 120 (3) Exploring Religion

#### Religion In Tradition

*Complete five courses from the following:*

- RS 301 (3) Religion in America
- RS 320 (3) Sacred Texts: Hebrew Bible
- RS 321 (3) Sacred Texts: New Testament
- RS 322 (4) Sacred Texts: Buddhist Texts
- RS 323 (4) Sacred Texts: Hindu Texts
- RS 330 (3) Introduction to Judaism
- RS 331 (3) Introduction to Christianity
- RS 332 (3) Introduction to Islam
- RS 340 (3) Zen, Dharma & Tao
- RS 341 (3) Spiritual Traditions of India
- RS 342 (3) Buddhism in India & Tibet
- RS 345 (3) T'ai Chi Ch'üan (Taijiquan)
- RS 351 (3) Shamanism & Prophecy
- RS 391 (3) Religion in Tradition: Special Topics
- RS 392 (3) Sacred Literature: Special Topics

#### Religion In Myth, Culture & Experience

*Complete 9 units from the courses listed below, including at least one experiential workshop. No more than 3 units from experiential workshops.*

- RS 300 (3) Living Myths
- RS 361 (3) Environment & Religion
- RS 362 (3) Wisdom & Craft
- RS 364 (3) Cinema & the Sacred
- RS 393 (3) Religion in Myth, Culture & Experience: Special Topics
- RS 394 (1-3) Religious Studies Workshop
- RS 394 (1-3) Sufi Mysticism Weekend

- RS 394 (1-3) Jewish Spirituality Weekend
- RS 394 (1-3) Eastern Orthodox Christianity Weekend
- RS 394 (1-3) City of 10,000 Buddhas Weekend
- RS 394 (1-3) Evangelical Christianity Experiential Weekend
- RS 394 (1-3) Tibetan Buddhism Weekend
- RS 394 (1-3) Finding Meaning on an Endangered Planet
- RS 394 (1-3) Zen Experiential Weekend
- RS 394 (1-3) Wiyot
- NAS 302 (3) Oral Literature & Oral Tradition

#### Senior Seminar

- RS 395 (3) Senior Seminar

**Prerequisite:** Complete 27 units of major coursework prior to enrollment in Senior Seminar.

#### REQUIREMENTS FOR THE MINOR

Total units required for the minor: **18**

#### Introduction

- RS 105 (3) World Religions
- RS 120 (3) Exploring Religion

#### Religion In Tradition

Complete three courses from Religion in Tradition courses, listed under the major requirements.

#### Religion In Myth, Culture & Experience

Complete 3 units from Religion in Myth, Culture & Experience courses, listed under the major requirements.



# SCIENTIFIC DIVING MINOR

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## Minor in Scientific Diving

### Advisor

Richard Alvarez

### Department of Kinesiology & Recreation Administration

Kinesiology & Athletics 310

707-826-4539

[humboldt.edu/kra](http://humboldt.edu/kra)

### The Program

This minor within the university's diving program provides broad-based support of subaquatic research, education, and recreational activities.

The courses and certifications within the minor meet diving and training standards of Humboldt State University, the National Association of Underwater Instructors (NAUI), and the American Academy of Underwater Sciences (AAUS).

As a research, educational, and vocational asset, the diving program is highly interdisciplinary. Diving has been used by students, faculty, and staff in the fields of marine biology, oceanography, fisheries, wildlife, geology, engineering, industrial technology, art, business administration, physical education, recreation administration, archeology, and natural resources. The minor facilitates undergraduate studies, advanced degrees, and careers in government or private sectors.

### Preparation

All courses require completed HSU diver certification documentation prior to any diving, including a university-approved medical exam (Medical Evaluation of Fitness for SCUBA, Surface-Supplied, or Free Diving).

Anyone diving under the auspices of the university also needs current CPR and oxygen provider certification or to be enrolled in HED 120 (Responding to Emergencies—CPRFPR) and REC 252 (Diving First Aid, Introduction to HSU Diving).

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: **13**

REC 252	(1) Diving First Aid, Introduction to HSU Diving
REC 262	(4) Beginning SCUBA
REC 362	(4) Master Diver
REC 471	(3) Scientific Diving
HED 120	(1) Responding to Emergencies—CPRFPR [required every two years]



# SOCIAL ADVOCACY MINOR

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## Minor in Social Advocacy

### Advisor

Laura Hahn, Ph.D.  
Telonicher House, Room 102  
707-826-3948  
communication.humboldt.edu

### The Program

This interdisciplinary program helps students who wish to act as advocates for issues they care about. These concerns might include the rights of ethnic minorities or women, protection of the environment, educational reform, consumer education, or antiwar movements, among others.

The program provides opportunities to learn how various disciplines view advocacy and the ethics of advocating (COMM 480), how to disseminate information about an issue effectively (JMC 323), and how social change is effected by means of communication (COMM 315).

Students are encouraged to choose electives that complement their major or that extend their understanding of the chosen issue. The culminating experience challenges them to apply what they have learned to real work on that issue in the community beyond campus.

Students develop both verbal and written skills in order to influence individuals and audiences, to become more aware of their own ethic of advocacy, and to develop an understanding of how policymaking institutions work.

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: 18

JMC 323 (3) Public Relations  
COMM 315 (4) Communication & Social Advocacy  
COMM 416 (3) Social Advocacy Theory & Practice

### Culminating Experience

Complete 2 or more units by advisement. For example:

COMM 495 (1-6) Field Experiences in Speech

JMC 482 (1-3) Mass Media Internship or other internship/service learning courses.

### Electives

Complete 6 units by advisement. Suggested:

JMC 429 (3) Advanced Public Relations  
PHIL 302 (3) Environmental Ethics  
PSCI 358 (4) Political Advocacy  
COMM 214 (3) Persuasive Speaking  
COMM 309B/WS 309B (3) Gender & Communication  
COMM 404 (4) Theories of Communication Influence  
SOC 475 (4) Community Organizing  
TA 307 (3) Theatre of the Oppressed  
WS 480 (1-5) Selected Topics in Women's Studies (Topic: Lobbying Women's Issues)



# SOCIAL SCIENCE

**Master of Arts degree  
in Social Science** — with an  
concentration in Environment &  
Community

## Graduate Program Coordinator

Mark Baker, Ph.D.  
Founders Hall 140  
707-826-3907  
envcomm.humboldt.edu

## Program Faculty

Janelle Adsit, *English*  
Mark Baker, *Politics*  
Kayla Begay, *Native American Studies*  
Renee Byrd, *Sociology*  
Leena Dallasheh, *History*  
Matthew Derrick, *Geography*  
Yvonne Everett, *Environmental Science &  
Management*  
Kevin Fingerma, *Environmental Science &  
Management*  
Gregg Gold, *Psychology*  
Nikola Hobbel, *English*  
Arne Jacobson, *Environmental Resources  
Engineering*  
Matt Johnson, *Wildlife*  
Erin Kelly, *Forestry & Wildland Resources*  
John Meyer, *Politics*  
Nicholas Perdue, *Geography*  
Sarah Ray, *Environmental Studies*  
Laurie Richmond, *Environmental Science &  
Management*  
Cutcha Risling Baldy, *Native American  
Studies*  
Maxwell Schnurer, *Communication*  
Marlon Sherman, *Native American Studies*  
Tony Silvaggio, *Sociology*  
Jessica Urban, *Critical Race, Gender &  
Sexuality Studies (CRGS)*  
Noah Zerbe, *Politics*

## The Environment & Community Program

Students completing this program will have demonstrated:

- skills to analyze the environmental consequences of economic and political structures and decisions
- tools to address issues of race, class, and gender in environment-community relationships
- an understanding of community, place, and sense of place
- knowledge of and experience in diverse approaches to social science research and action
- insight from case studies that offer a problem-solving approach to learning

- preparation for careers in teaching, government, community, and environmental organizations
- an ethic of service and civic engagement.

This is a two-year, interdisciplinary graduate program focused on understanding and advancing sustainability and community resilience within the context of social and environmental change at multiple scales. The program is committed to conceptually rigorous, applied research on sustainability and equity in a manner that transcends a nature-society dichotomy. Students explore these topics through graduate seminars in three curriculum areas: economic and political dimensions; socio-cultural dimensions: race, class, gender and place; and environmental dimensions. Capstone topics for graduate students in this program include the following general themes: sustainable food systems, community-natural resource management interactions, environmental and social justice, environmental education, Native American/indigenous natural resource management, and sustainable urban communities. Our graduates pursue successful careers in the nonprofit sector, education, private sector, and public sector.

## Program Admission Requirements Postbaccalaureate Candidate Pathway

- Completed BA or BS degree
- GPA not less than 3.00 in the last 60 units of college coursework
- Three letters of recommendation
- Candidate essay describing goals and interests
- Ten-page writing sample
- Graduate coordinator approval after faculty committee review of application file

## Dual Degree Pathway (3+2 BA and MA Degree)

The E&C program has developed, in conjunction with select undergraduate majors, dual degree (3+2) pathways that enable exceptional students to simultaneously earn a bachelor's and a master's degree in five years. Although the pathway does not change undergraduate major nor graduate degree requirements, students in the program seamlessly progress from undergraduate to graduate status. Students are eligible to apply for the pathway upon completion of 60 units. A faculty committee evaluates student applications. Participation is based on prior academic performance

and other measures of academic excellence. Contact the E&C coordinator for majors that participate.

## REQUIREMENTS FOR THE DEGREE

*For a description of degree requirements to be fulfilled in addition to those listed below see, "The Master's Degree" section of the catalog, pp. 83-84.*

**Total units required for the degree: 36**

### Required Courses (15 units)

*Complete during first semester:*

EC 610 (3) Environment & Community  
Research

*Complete three semesters (3 units total) of:*

EC 615 (1) Graduate Colloquium

*Complete 6 units of:*

EC 690 (1-6) Master's Thesis or Project

*Complete 3 units of field research or independent study:*

EC 695 (1-3) Field Research

### Approved Electives (6 units)

*Complete one 3-unit research methods elective, chosen from an approved list, to be completed no later than the third semester.*

*Complete one additional course at the graduate or upper-division undergraduate level from a list of elective options approved by the graduate coordinator.*

### Graduate Seminars (15 units)

*Complete at least one seminar from each of the following three curriculum areas. Seminars are developed by the advisory committee comprised of program faculty.*

#### Economic & Political Dimensions

EC 620 (3) Economic & Political  
Dimensions, **or**

ENGR 532 (4) Energy, Environment, &  
Society

Course topics including: Politics of Sustainability, Globalism, Capitalism, and Environment, Political Ecology

#### Socio-Cultural Dimensions

EC 630 (3) Socio-Cultural Dimensions  
Course topics including: Community and Place, Klamath River Issues, Socioeconomics of Natural Resources in the Mattole

#### Ecological Dimensions

EC 640 (3) Ecological Dimensions  
Course topics including: Ecosystems and Society, Conservation Ecology and Society



# SOCIAL WORK

## **Bachelor of Arts degree with a major in Social Work**

On campus and online options

**Master of Social Work (MSW)** Full-time on campus and part-time online options; advanced standing options

### **Stipend Programs**

▪ California Social Work Education Center Title IVE Child Welfare Training Program - MSW

▪ California Social Work Education Center Title IVE Child Welfare Training Program - BASW

### **Department Chair**

Marissa O'Neill, M.S.W., Ph.D.

### **Bachelor of Arts in Social Work Office**

Behavioral & Social Sciences 514  
707-826-4448  
humboldt.edu/socialwork

### **Master of Social Work /Field Education Office**

Behavioral & Social Sciences 510  
707-826-4443

## **THE PROGRAM**

Humboldt's BA program recognizes specific social work competencies and behaviors as the framework for social work education. These are noted on the department website at [humboldt.edu/socialwork](http://humboldt.edu/socialwork).

Students completing this program will have demonstrated the ability to:

- demonstrate ethical and professional behavior, particularly with respect to work with indigenous and rural communities
- engage diversity and difference in practice, particularly with respect to work with indigenous and rural communities
- advance human rights and social, economic, and environmental justice, particularly with respect to work with indigenous and rural communities
- engage in practice-informed research and research-informed practice, particularly with respect to work with indigenous and rural communities
- engage in policy practice, particularly with respect to work with indigenous and rural communities.
- engage with individuals, families, groups, organizations, and communities, particularly with respect to work with indigenous and rural communities

▪ assess individuals, families, groups, organizations, and communities, particularly with respect to work with indigenous and rural communities

▪ intervene with individuals, families, groups, organizations, and communities, particularly with respect to work with indigenous and rural communities

▪ evaluate practice with individuals, families, groups, organizations, and communities, particularly with respect to work with indigenous and rural communities

The BA program is a professional preparation program rooted in the liberal arts. Students develop knowledge, values, and skills to work with people from diverse cultural, ethnic, and personal backgrounds. The program is fully accredited with the Council on Social Work Education.

Social work students have opportunities to work with local agencies through a highly individualized field experience program. Students find this helpful in building skills and obtaining jobs following graduation. The program emphasis is work with rural and indigenous communities.

Potential careers: services to children, families, and the elderly; rehabilitation; health care; community practice; youth work; corrections; employment services; substance abuse, mental health, and residential treatment.

### **Generalist Social Work Practice**

Generalist social work practitioners work with individuals, families, groups, organizations, social policies, and communities in a variety of settings in pursuit of social and economic justice. Generalist practitioners view people and systems from a strengths perspective in order to recognize, support, and build upon the innate capabilities of all human beings. They engage, assess, broker services, advocate, counsel, educate, and organize with and on behalf of individuals, families, and collections of people. Generalist practitioners engage in community development, organizational development, and evaluation in order to ensure that services are useful, effective, and ethical.

### **Program Admission Requirements**

Lower division GE courses required for the major can be taken at a community college and can be taken CR/NC. Program faculty can advise students on courses preparing them for their transfer to Humboldt's Social

Work program. For information and/or appointments, call 707-826-4448.

To be eligible to register for junior-level courses in the social work major, students must have completed, or be in the process of completing, all prerequisites. A cumulative 2.00 GPA and a 2.00 in all social work courses is necessary to be fully accepted to the program.

Students who meet the prerequisites need to submit a "Social Work Major Application Form" with a personal statement to the department. **Applications to begin the fall sequence of courses are due no later than the last Friday in January for continuing students. Transfer applicants should follow the Office of Admissions schedule due to program impaction for transfers only. Applications received after this date may not be reviewed in time for placement in the appropriate major courses.** Notification of acceptance will be made prior to the registration period for fall classes. **Please note that all accepted students will be required to attend a two day on campus orientation the first week of fall semester.**

Full acceptance into junior year coursework requires students to meet all of the admission standards and to submit the formal application. Provisional status may be granted to any student who does not meet requirements. Students who are given a provisional status must work out a plan with their faculty advisor that identifies those areas requiring improvement and how each area will be addressed in order to be accepted as a social work major.

## **REQUIREMENTS FOR THE MAJOR SOCIAL WORK (BA)**

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82."The Master's Degree" section of the catalog, pp. 83-84.*

### **Modifications to General Education Requirements**

*The upper division general education area D requirement is met by the coursework within the Bachelor of Arts degree with a major in Social Work.*

### **Unit Requirements**

**Total units in the major: 60**  
**Total units required for the degree: 120**

Courses prepare students for professional generalist social work and are sequenced to best facilitate learning and acquisition of skills. Major coursework (300-level) always begins in fall.

**Prerequisite courses for acceptance to the Social Work BA Major:**

- NAS 104 (3) Introduction to Native American Studies, **or**
- ES 105 (3) Introduction to Ethnic Studies, **or**
- CRGS 108 (3) Power/Privilege: Gender & Race, Sex, Class, **or** a course that is centrally organized around a theme related to the experiences of marginalized groups.
- STAT 108 (3) Elementary Statistics, **or**
- STAT 108i (3) Elementary Statistics with Integrated Support [Coreq: STAT 8], **or**
- PSYC 241 (4) Psychological Statistics
- SW 101 (3) Introduction to Social Work & Social Work Institutions
- SW 255 (2) Beginning Social Work Experience

**Upper Division Courses**

**Juniors — Fall**

- SW 340 (3) Social Work Methods I
- SW 340L (1) Social Work Methods I Lab
- SW 350 (4) Human Behavior & the Social Environment I
- SW 355 (2) Social Agency Experience [may be taken in spring or fall]
- SW 382 (4) Social Work Research

**Juniors — Spring**

- SW 330 (4) Social Work Policy
- SW 341 (3) Social Work Methods II
- SW 341M (1) Social Work Methods II Lab
- SW 351 (4) Human Behavior & the Social Environment II
- SW 355 (2) Social Agency Experience [may be taken in fall or spring]
- SW 356 (1) Social Work Field Preparation

**Seniors — Fall**

- SW 455 (5) Field Experience
  - SW 456 (2) Field Experience Seminar
- plus 3 units of advanced social work methods courses (see below).

**Seniors — Spring**

- SW 455 (5) Field Experience
  - SW 456 (2) Field Experience Seminar
- plus 3 units of advanced social work methods courses (see below).

**Advanced Social Work Methods Courses**

Complete 6 units of advanced social work methods courses are to be taken in the senior year:

Courses include:

- SW 411 [1.5] Distributed Learning Community
- SW 431 [4] Juvenile Delinquency
- SW 442 [3] Advanced Social Work Methods
- SW 480 [.5-4] Special Topics
- SW 499 [1-3] Directed Study

**Field Experience**

Field experience courses are restricted to social work majors. Academic credit for life experience or previous work experience shall not be given, in whole or in part, in lieu of any required social work courses.

**MSW PROGRAM**

Humboldt's MSW program recognizes specific social work competencies and behaviors as the framework for social work education. These are noted on the department website at [humboldt.edu/socialwork](http://humboldt.edu/socialwork).

Students completing this program will have demonstrated the ability to:

- demonstrate ethical and professional behavior, particularly with respect to work with Indigenous and rural communities, consistent with advanced generalist practice.
- engage diversity and difference in practice, particularly with respect to work with Indigenous and rural communities, consistent with advanced generalist practice.
- advance human rights and social, economic, and environmental justice, particularly with respect to work with Indigenous and rural communities, consistent with advanced generalist practice.
- engage in practice-informed research and research-informed practice, particularly with respect to work with Indigenous and rural communities, consistent with advanced generalist practice.
- engage in policy practice, particularly with respect to work with Indigenous and rural communities, consistent with advanced generalist practice.
- engage with individuals, families, groups, organizations, and communities, particularly with respect to work with Indigenous and rural communities, consistent with advanced generalist practice.
- assess individuals, families, groups, organizations, and communities, particularly with respect to work with Indigenous and rural communities, consistent with advanced generalist practice.

- intervene with individuals, families, groups, organizations, and communities, particularly with respect to work with Indigenous and rural communities, consistent with advanced generalist practice.
- evaluate practice with individuals, families, groups, organizations, and communities, particularly with respect to work with Indigenous and rural communities, consistent with advanced generalist practice.

**Program Admission Requirements**

You must complete the following requirements before being considered for admission:

- Baccalaureate degree from an accredited four-year liberal arts institution.
- GPA of 3.00 or better on a 4.00 scale for the last 60 hours of academic coursework (*recommended*).
- Completion of the following courses (with a grade of "C" or better): elementary statistics (math, psychology, or sociology; MATH 103 does not count); a course related to Native American studies. The course must include a general introduction to the history of Native peoples of America and the unique and sovereign relationship between tribal nations and local, state, and federal governments.
- Complete the California State University graduate application via [calstate.edu/apply](http://calstate.edu/apply).

Consult the department website for additional information: [humboldt.edu/socialwork](http://humboldt.edu/socialwork).

**Conditional Program Admission**

Students who lack adequate undergraduate preparation may receive conditional program admission. Conditionally admitted students must complete all undergraduate coursework prior to beginning the master's program, including the elementary statistics and Native American studies prerequisites with a "C" or better.

**Program Schedule Options**

The full-time master's program schedule consists of 60 units over two years of study. Students who have a bachelor's degree in social work from a CSWE accredited program can apply for the **Advanced Standing Program** which consists of 36 units taken over 3 semesters of study, beginning with 6 units offered through the College of Extended Education & Global Engagement in the summer.

### **Part-Time Distributed Learning MSW Program**

The department offers a part-time (3.5 year) Distributed Learning MSW Program through the College of Extended Education & Global Engagement. The program is delivered through online coursework, an annual on-campus intensive, and other learning methodologies. Foundation coursework is completed over the first 5 semesters, while advanced coursework is completed over the final 5 semesters. A Part-Time Advanced Standing Distributed Learning MSW program (2 years) is also offered, which adds 6 units of summer bridge courses before advanced coursework. Distributed Learning MSW students enroll in an additional 1.5 unit "Distributed Learning Community Seminar" each semester they are in the program. For more information, contact the MSW Programs Office at 707-826-4443.

### **REQUIREMENTS FOR THE DEGREE MASTER OF SOCIAL WORK**

For a description of degree requirements to be fulfilled in addition to those listed below see, "The Master's Degree" section of the catalog, pp. 83-84.

#### **Unit Requirement**

**Total units required for the degree: 60**

#### **Foundation Coursework (30 units)**

SW 530	(3) Social Policy & Services
SW 540	(3) Generalist Social Work Practice
SW 541	(3) GSWP: Native American & Rural
SW 543	(3) GSWP II: Macro Practice
SW 550	(3) Human Development, Diversity & Relationships
SW 555	(6) Foundation Internship
SW 570	(3) Dynamics of Groups, Agencies, Organizations
SW 582	(3) Research I: Philosophy & Methods
SW 583	(3) Research II: Qualitative & Indigenous Research Methods

#### **Advanced Coursework (30 units)**

SW 640	(3) AGP: Child & Family Welfare
SW 641	(3) AGP: Integrated Clinical Practice
SW 643	(3) AGP: Community & Organization
SW 648	(3) AGP: Adv. Clinical Practice
SW 649	(3) AGP: Wellness & Sustainability
SW 651	(3) AGP: Indigenous Peoples

SW 655	(6) Advanced Internship
SW 682	(3) Masters Project Development
SW 683	(3) Masters Project Implementation

#### **Culminating Experience**

Prior to graduation students must successfully complete a comprehensive exam.

#### **Pupil Personnel Services Credential – Social Work (PPSC-SW)**

Two social work courses are required in the summer after completion of the MSW program requirements. These courses are offered online through the College of Extended Education & Global Engagement. Contact the PPSC Coordinator for more information.



# SOCIOLOGY

## Bachelor of Arts degree with a major in Sociology

### Minor in Sociology

## Master of Arts degree in Public Sociology

### Department Chair

Renée Byrd, Ph.D.

### Graduate Coordinator

Jennifer Eichstedt, Ph.D.

### Department of Sociology

Behavioral & Social Sciences 518  
707-826-3139  
sociology.humboldt.edu

### Affiliated Research Institutes

Altruistic Personality and Prosocial  
Behavior Institute

California Center for Rural Policy (CCRP)

Humboldt Institute for Interdisciplinary  
Marijuana Research (HIIMR)

Humboldt Journal of Social Relations (HJSR)

## THE BA PROGRAM

Students completing a BA in Sociology will have demonstrated the following program learning outcomes:

- Effectively communicate orally about social science theory and methods (oral communication)
- Effectively communicate in writing about social science theory and methods (information literacy)
- Identify systems of power and privilege and methods for creating diverse, inclusive, and just communities (social justice)
- Explain the relationships between communities, social systems, institutions, and the natural world (sustainability)
- Evaluate research designs and analytic techniques (critical thinking – methods)

Sociology students find an active and supportive departmental culture that surrounds coursework in sociological theory, methods, and current social issues. Department faculty members have a strong commitment to social justice that shapes course offerings and content. Students prepare themselves for sociology-related careers as well as graduate studies. Service learning, capstone internships, and faculty-supervised research are integrated into the curriculum.

The Sociology Student Association creates additional opportunities for students to connect with each other, faculty, and local community organizations. Because of the

breadth, adaptability, and practical applications of sociology, students with a BA in Sociology choose to work in many different sectors: non-profit, private business, social services, education, health services, public relations, criminal justice, and government.

### Preparation

In high school take math, writing and social science courses (history, psychology, sociology).

## REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### Unit Requirements

Total units in the major: **47**  
Total units required for the degree: **120**

### Special Grade Requirement

A minimum grade of "C" is required for all courses in the major.

### Lower Division (11 units)

SOC 104	(3) Introduction to Sociology
STAT 108	(3) Elementary Statistics, <b>or</b>
STAT 108i	(3) Elementary Statistics with Integrated Support [Coreq: STAT 8]
SOC 225S	(4) Social Issues & Action* *
SOC 282L	(1) Sociological Statistics Lab

### Upper Division (17 units)

SOC 303*	(3) Race & Inequality [DCG-d]
SOC 303M	(1) Race & Inequality for Majors
SOC 310	(4) Sociological Theory
SOC 372	(1) Proseminar <b>or</b>
SOC 472	(1) Graduate School Planning
SOC 382	(4) Intro to Social Research
SOC 410	(4) Contemporary Theory

### Knowledge Based Requirements (16 units)

*Complete four courses with at least one from chosen from each category. Students may request that a sociology course not listed be approved to count in one of the knowledge areas below.*

### Inequalities and Change

SOC 305*	(3) Global Transformations, <b>and</b>
SOC 305M	(1) Global Transformations for Majors
SOC 316	(4) Gender & Society
SOC 321	(4) Sociology of Sport
SOC 350	(4) Social Movements

SOC 466	(4) Migration and the Global Economy
SOC 480	(1-4) Special Topics

### Environment

SOC 302*	(3) Forests & Culture, <b>and</b>
SOC 302M	(1) Forests & Culture for Majors
SOC 320	(4) Environmental Sociology
SOC 363	(4) Environmental Crime
SOC 370	(4) Environmental Inequality & Globalization
SOC 480	(1-4) Special Topics

### Communities and Identity

CRIM 420	(4) Drugs and Society
SOC 306*	(3) The Changing Family <b>and</b>
SOC 306M	(1) The Changing Family for Majors
SOC 308*	(3) Sociology of Altruism & Compassion, <b>and</b>
SOC 308M	(1) Sociology of Altruism & Compassion for Majors
SOC 330	(4) Social Deviance
SOC 411	(4) Popular Culture
SOC 475	(4) Community Organizing
SOC 480	(1-4) Special Topics

### Capstone (3 units)

*Complete one course from the following:*

SOC 482	(3) Internship
SOC 492	(3) Senior Thesis

The Department of Sociology offers 1-2 unit weekend workshops around pressing social issues and popular topics. We encourage our students to enroll in these workshops, but the units may not be counted as part of the required 47-48 unit major requirement with the following exception: Workshop units may be used to "make up" 1-2 units that a student may be short after transferring 3-unit courses from another college or university.

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: **20**

### Special Grade Requirement

*A minimum grade of "C" is required for all courses in the minor. Total minor units: 20.*

SOC 225S	(4) Social Issues & Action* *
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\* No more than 8 units of upper division SOC courses that have GE designations can be counted toward your major.

\*\* Service Learning Component

SOC 382 (4) Intro to Social Research  
Plus 12 units of upper division sociology coursework. No more than one elective for your minor may be a sociology course with general education designation, and must be taken for 4 units.

To best meet student interests, minor electives should be selected in consultation with a sociology faculty advisor.

### THE PUBLIC SOCIOLOGY MA PROGRAM

Students completing an MA in Public Sociology will have demonstrated the following program learning outcomes:

- Communicate orally at a level appropriate for an advanced professional about social science theory, methods, and/or applied field experience (oral communication)
- Effectively identify and communicate in writing about central social science contemporary theory (critical thinking - written communication)
- Identify systems of power and privilege and methods for creating diverse, inclusive, and just communities (critical thinking - social justice)
- Explain the relationships between communities, social systems, institutions, and the natural world (critical thinking - sustainability)
- Evaluate research designs and analytic techniques (critical thinking - methods)

The master's program in public sociology, focuses on social justice and environmental sustainability, while fostering a network of students, faculty, staff, alumni and community members who are committed to social change. Public sociology translates sociological knowledge and skills for communities where these resources are needed.

The concept of social justice emphasizes a holistic understanding of the relationships between people, built and "natural" systems, and the social implications of particular structures and relationships. Race, class, gender, and the environment are central to analysis, as well as strategies for action. The action component emphasized in our program is tightly linked to the idea of public sociology. We understand public sociology as social change work that draws heavily on knowledge of social movements, community organizing, and applied research methods as particular plans are strategized, implemented, and evaluated.

Our MA students choose an experience emphasis in either Practicing Sociology

or Teaching Sociology. Regardless of their emphasis, our alumni graduate with a solid foundation in social theory and social research that is marked by a departmental commitment and curricular integration of public sociology and social justice, as well as knowledge and skills for social action. Sociology faculty members, along with the Sociology and CJS Community Advisory Board, cultivate a range of field placement opportunities for students emphasizing Practicing Sociology.

Students develop their specialization by drawing on coursework, carefully selecting a field placement and working with faculty mentors.

In the Teaching Sociology emphasis, students learn cutting-edge pedagogical practices, and receive both hands-on experience and close mentorship. This is great preparation for facilitating and leading groups, designing and delivering workshops, teaching at the community college level, and creating educational and training materials.

In the Practicing Sociology emphasis, through classes, a 240-hour placement, paid research opportunities, and their thesis/capstone work, students become well-trained and valuable applied sociologists. They develop skills in qualitative, quantitative, and program evaluation methods; frameworks (theory) needed for complex analytical thinking and problem solving; and advanced professional communication skills- writing, speaking, presentations.

### REQUIREMENTS FOR THE DEGREE MASTER OF ARTS

*For a description of degree requirements to be fulfilled in addition to those listed below see, "The Master's Degree" section of the catalog, pp. 83-84.*

#### Special Grade Requirements

Students must earn a "B" (3.00) or better in all courses taken to satisfy the requirements of the degree.

#### Unit Requirements

<b>Common coursework units:</b>	<b>22</b>
<b>Elective units:</b>	<b>17</b>
<b>Total units required for the degree:</b>	<b>39</b>

#### Common Coursework (22 units)

SOC 583	(4) Quantitative Research Methods
SOC 584	(4) Qualitative Research Methods
SOC 605	(1) Graduate Proseminar in Sociology (complete twice for a total of 2 units)

SOC 610	(4) Contemporary Social Theory
SOC 650	(4) Race, Ethnicity & Gender
SOC 665	(4) Community, Ecology and Social Action

#### Social Action Electives (4 units)

*Complete one of the following courses:*

FILM 455	(4) Grant Writing
FILM 455S	(4) Grant Writing
SOC 350	(4) Social Movements
SOC 475	(4) Community Organizing

Other courses that are social action oriented and experience based may be approved by the graduate coordinator.

#### Area Seminar Electives (4 units)

Complete one course in consultation with the graduate coordinator. At least one of the two program electives (Social Action or Area Seminar) must be at graduate (500-600) level.

#### Experience Electives (3 units)

SOC 586	(3) Community Action Research, <b>or</b>
SOC 560	(3) Teaching Sociology

#### Thesis or Project (6 units)

SOC 690 (1-6)	Master's Degree Thesis, <b>or</b>
SOC 692 (1-6)	Master's Degree Project

The decision to enroll in "project" or "thesis" units is based on the orientation and content of the student work itself and is not dictated by the experience emphasis. Students should review the discussion of thesis and project units in the Public Sociology "Graduate Manual" and work with the graduate coordinator and their committee chair in determining the most appropriate course number (SOC 690 or SOC 692) for their work. Students emphasizing Practicing Sociology should enroll in thesis or project units concurrently with their field placements (see below).

#### Progress Requirements

The department reserves the right to dismiss from the program a student who does not make academically adequate and timely progress in moving through degree requirements. For more information, see the graduate school handbook regarding academic probation and disqualification.

### ADDITIONAL MA DEGREE INFORMATION

#### Field Site Placement Requirements

Students emphasizing Practicing Sociology are required to complete 240 hours of field placement work that may include up to 40 hours of academic administrative work

such as scheduling and meeting with faculty advisors, preparing and submitting required reporting and evaluation information, and formatting final products as required by the graduate school. Students should work closely with the graduate coordinator to identify a placement that will best support their interests and long-term goals.

#### **Teaching Associates** (Optional)

Students may apply for a teaching associate position, which is a paid union position. Teaching associates will work with a faculty member in one of two large lecture courses: SOC 104 (Intro to Sociology) or SOC 303 (Race and Inequality). Teaching associates will run up to three recitation (discussion) sections with 25-33 students per section. Teaching associates also grade student work. This model provides teaching associates a hands-on experience in the classroom.

#### **Teaching Internship** (Optional)

In addition, there are occasionally opportunities for students to petition the department to be allowed to engage in a higher level internship with a faculty member. This allows advanced students to co-teach a course with a faculty member. The positions are reserved for only the very strongest of new teachers with evidence for readiness to teach their own class. If selected, one to two students will work with a faculty mentor to teach a section of an appropriate course. The student should enroll in SOC 682 Teaching Internship; the course is not required for the MA. Prerequisites for participating in the Teaching Internship include SOC 560 Teaching Sociology and having served as a teaching associate as described in the above paragraph.

#### **Plans of Study Submission Including Committee Identification** (Semester One)

Near the end of the first semester in the program, a student should consult with the graduate coordinator to develop and submit a "Plan of Study" (see website for sample). The plan sets student goals and strategies for accomplishment including not only coursework, but also additional professional development plans such as professional meeting attendance and networking strategies. The plan also requires that the student, with the help of the graduate coordinator, secure the commitment of two sociology graduate faculty members to serve on the thesis or project committee. This plan must be submitted to the graduate coordinator and will be placed in the student's permanent file.

#### **Thesis/Project Proposal** (Semester Two)

Working with their committee, the student should propose their plan for completing a thesis or project. This proposal should include a potential theoretical foundation, data to be collected, and overview of literature, as applicable. This proposal must be submitted to and approved by the student's full committee.

#### **Advancement to Candidacy Application** (Semester Three)

In the third semester in the program, students submit their applications for candidacy to Graduate Studies. This application includes a list of approved classes, a title and abstract of the thesis or project, internal review board (IRB) approval documentation and the signatures of the committee members, as well as the signature of the graduate coordinator. The application when approved places the student on the program for graduation.

#### **Project or Thesis Work, Continuous Enrollment Requirements, and Leave of Absences**

Once a student is approved for candidacy, they are required to enroll in at least 1 unit of thesis or project work every semester (fall and spring) until work is complete and each committee member has provided formal acceptance of the project or thesis. Students must file a formal "leave of absence" application if they are unable to continue enrollment (see Graduate School Handbook). If thesis/project work is in process after all coursework is complete (except for RP grades for 6 units of SOC 690 or SOC 692), the student may choose to meet the continuous enrollment requirement by taking 1 unit of SOC x693 each term through the College of Extended Education & Global Engagement.

#### **Supplemental Coursework**

Students may enroll in additional courses to supplement their coursework and further develop interests and expertise. Students desiring additional preparation for professional positions in program evaluation are encouraged to take advanced statistical analysis courses in other departments to supplement their core of methodology courses.

#### **Conditional Program Admission**

Students who lack adequate undergraduate preparation in sociological theory and methods may receive conditional program admission. Conditionally admitted students must

complete with an "A-" or better all or some of the following undergraduate courses:

SOC 310	(4) Sociological Theory
SOC 382	(4) Intro to Social Research
SOC 410	(4) Contemporary Social Theory
STAT 108	(3) Elementary Statistics



# SPANISH

## Bachelor of Arts degree with a major in Spanish

### Minor in Spanish

### Minor in Spanish Media

### Department Chair

Joseph Diémé, Ph.D.

### Program Director

Lilianet Brintrup, Ph.D.

### Department of World Languages & Cultures

Behavioral & Social Sciences 206

707-826-3226, fax 826-4320

wlc.humboldt.edu

### The Program

Students completing this program will have demonstrated:

- analysis, acknowledgement, and respect of cultural expressions and worldviews of others
- the capacity to be responsible, productive and compassionate global citizens in a fragile world
- cultural and linguistic competency
- the ability to collaboratively formulate and solve problems
- independent and critical thinking.

All classes are taught in Spanish, from basic to advanced levels, with all four linguistic skills emphasized: listening, speaking, reading, and writing. Courses in literature and civilization provide the opportunity for critical understanding of the cultural heritage of the Spanish-speaking world, including the US.

Social events, weekend retreats, literary workshops, and discussions on social and political contemporary issues provide ample opportunity for faculty and students to interact.

Graduates of this program have found careers as: teachers, interpreters, literary or technical translators, international bankers or financiers, travel agents, foreign service officers, foreign correspondents, and airline employees. Many county, state, and federal agencies offer jobs for which knowledge of Spanish is either desirable or required.

**Special Scholarship and Awards.** The Department of World Languages and Cultures has three permanent scholarships and awards:

- The Benavides-Garb Family International Travel Award

- The Joe and Helen Bottino Memorial Travel Award
- The Frank B. Wood Scholarship

All language students are encouraged to apply for these important scholarships and awards to enhance language studies with an international residence. See the department web page for further information.

### Certified Education Program

This program is certified by the California Commission on Teacher Credentialing (CCTC). Students who successfully complete this program will have demonstrated subject matter competency in Spanish and therefore, will not be required to take the California Subject Exam for Teachers (CSET) for Spanish.

SPAN 315S, taken for 3-4 units, satisfies the 45 hours of observation prerequisite by the CCTC for the multiple subject credential program and/or the single subject credential program. Consult with a Spanish program advisor.

### Spanish Advanced Placement (AP)

Students with AP credit should consult with a Spanish program advisor about selecting Spanish courses. Also discuss the possibility of counting Spanish AP credit towards the Spanish minor or, under special circumstances, the major.

### California Seal of Biliteracy (CSB)

Students who have successfully earned the CSB should enroll in upper division Spanish courses at the 300 level and may be granted credit for the Spanish minor through the HSU "Credit by Examination" policy with appropriate documentation. Under special circumstances, such credit may apply to the Spanish major. Consult with a Spanish program advisor.

### Spanish Heritage Speakers

Students who are Heritage Speakers of Spanish should not enroll in Spanish language development courses: SPAN 105, 106, 107, or 207. Instead, they should enroll in Spanish for Heritage Speakers: SPAN 108, 108S, 208, or 208S. Students who have completed a minimum of one year of Spanish for Heritage Speakers at the high school or Community College level should take upper division Spanish courses at the 300 level. Consult with a Spanish program advisor.

### Preparation

A good background in English grammar and syntax is desirable. Previous Spanish study is welcome but not required. Students without previous Spanish language background will have the opportunity to acquire the language from the beginning, following the language and culture course sequence: SPAN 105, SPAN 106, SPAN 107, and SPAN 207. Discuss your particular level with a Spanish program advisor.

### REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### Unit Requirements

**Total units in the major: 49**

**Total units required for the degree: 120**

*Complete 49 units of upper division major specific coursework. At least 12 units must be completed at the Humboldt State campus.*

### Upper Division Required Courses (42 units)

SPAN 310	(3)	Spanish Advanced Oral Skills
SPAN 311	(4)	Spanish Level V, Advanced Grammar & Composition
SPAN 340	(4)	Introduction to the Analysis of Hispanic Literature
SPAN 401	(4)	Hispanic Civilization: Spain
SPAN 402	(4)	Hispanic Civilization: Latin America
SPAN 435	(4)	Spanish Applied Linguistics
SPAN 492	(3)	Senior Project

*Complete one of the following courses:*

SPAN 342	(4)	Cervantes
SPAN 343	(4)	The Golden Age

*Complete one of the following courses:*

SPAN 344	(4)	Modern Hispanic Theater Workshop
SPAN 345	(4)	Hispanic Cinema

*Complete one of the following courses:*

SPAN 346	(4)	Borges and the Contemporary Spanish American Short Story
SPAN 348	(4)	Contemporary Hispanic Poetry

*Complete one of the following courses:*

SPAN 347	(4)	The "Boom" of the Latin American Novel
SPAN 349	(4)	Contemporary Spanish Novel

**Upper Division Electives (7 units)**

Complete a minimum of 7 upper division elective units from the 300/400 series (which may include courses not taken in the pairs above).

**Residency Abroad Requirement**

Complete an approved academic semester program abroad in a Spanish-speaking region of the Hispanic world, including Spain and/or Latin America, equivalent to at least 12 units and normally lasting at least 10 weeks. Students are encouraged to efficiently plan their academic residency abroad to complete major and general education requirements. Program must be selected in consultation with and approved by the major advisor. Students are expected to complete their final semester in residence at Humboldt State University.

Cost of residency abroad varies according to program and world region. Be sure to understand the costs involved and plan ahead. Consult with the HSU Center for International Programs office.

Under exceptional circumstances the residency abroad requirement can be waived by the major advisor.

**REQUIREMENTS FOR THE MINOR****Spanish Minor**

**Total units required for the minor: 28**

**Required Courses (23 units)**

SPAN 106 (4) Spanish Language & Culture II

*Complete one of the following courses:*

SPAN 107 (4) Spanish Language & Culture III

SPAN 108 (4) Level III Heritage Speakers

SPAN 108S (4) Level III Heritage Speakers [Service Learning]

*Complete one of the following courses:*

SPAN 207 (4) Spanish Language & Culture IV

SPAN 208 (4) Level IV Heritage Speakers

SPAN 208S (4) Level IV Heritage Speakers [Service Learning]

*Complete all of the following courses:*

SPAN 310 (3) Spanish Advanced Oral Skills

SPAN 311 (4) Spanish Level V, Advanced Grammar & Composition

SPAN 340 (4) Intro to the Analysis of Hispanic Literature

**Upper Division Electives (5 units)**

Complete a minimum of 5 upper division elective units from the SPAN 300/400 series.

Students with a Spanish language background who begin above SPAN 106 should take alternative courses, selected in consultation with their minor advisor, in order to meet the minimum 28 units required for the minor.



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# SPANISH MEDIA MINOR

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## Spanish Media Minor

### Department of Journalism & Mass Communication

Bret Harte House 52  
707-826-4775  
journalism.humboldt.edu

### Department of World Languages & Cultures

Behavioral & Social Sciences 206  
707-826-3226, fax 707-826-4320  
wlc.humboldt.edu

### The Program

The Spanish Media minor combines Spanish language study with journalistic writing and media experience. This interdisciplinary minor is an excellent choice for anyone interested in pursuing a degree in business, communication, pre-law, or for professional careers in bilingual news media, advertising, and public relations.

### REQUIREMENTS FOR THE MINOR

Total units required for the minor: 21

#### Lower Division (9 units)

JMC 120 (3) Beginning Reporting  
JMC 160 (2) El Leñador Newspaper

*Complete one of the following courses:*

SPAN 207 (4) Spanish Language and Culture IV  
SPAN 208 (4) Spanish Level IV for Heritage Speakers

#### Upper Division (6 units)

JMC 360 (2) Advanced El Leñador Newspaper  
SPAN 311 (4) Spanish Language V, Advanced Grammar and Composition

### Approved Elective Courses (6 units)

*Complete one of the following approved journalism elective courses:*

JMC 125 (3) Introduction to Journalism Tools  
JMC 134 (3) Photojournalism & Photoshop  
JMC 154 (3) Radio Production  
JMC 156 (3) Video Production

other journalism courses may be acceptable; consult with journalism advisor.

*Complete one of the following approved Spanish elective courses:*

SPAN 308S (3) Introduction to Translation & Interpretation  
SPAN 310 (3) Spanish Advanced Oral Skills

other upper division Spanish courses may be acceptable; consult with Spanish advisor.

# THEATRE ARTS

## Bachelor of Arts degree with a major in Theatre Arts

### Minor in Theatre Arts

See also sections in the catalog on *Dance, Dance Studies, and Film*.

### Department Chair

Ann Alter, MFA  
Ann.Alter@humboldt.edu

### Program Leader

Troy Lescher, Ph.D.  
Troy.Lescher@humboldt.edu

### Department of Theatre, Film & Dance

Theatre Arts Building 20  
707-826-3566  
theatre.humboldt.edu

### The Program

Students completing this program will be able to:

- appropriately use vocabulary and historical knowledge from a wide range of theatre sub-disciplines;
- apply concepts of performance, design and technology;
- analyze and evaluate scripts and projects and contribute to department productions;
- create new designs, scripts, interpretations, and solutions;
- apply principles of effective communication and collaboration

The goal of the theatre arts major is to provide a solid and broad foundation of knowledge, skills, and hands-on practice in performance, design, and technology in order to prepare students for jobs in professional and not-for-profit theatre and other careers; work in community and non-professional theatre, and further graduate study.

At every level of their education, students in our program are strongly encouraged to actively participate in departmental and student productions to translate their classroom knowledge into practical learning and experience. In addition, most of our classes incorporate activities and project work. Students will begin their theatre training by approaching foundational knowledge in history, vocabulary, and other skills that will strengthen their experiential learning. They will build on their understanding of principles of performance, design, and technology in class projects and productions. As they progress through the program, students will be able to analyze productions and apply their skills and knowledge in more sophisticated and prominent ways. In their project

work, students will step beyond standard solutions to develop their creative thinking and problem solving skills. Throughout their education, they develop strong collaboration skills and experiences that enhance their appreciation for the importance of team work in any endeavor.

The theatre arts major allows students the flexibility to study performance or design/technology or a combination of the two through elective units. The major shares 6 units with the film major to explore commonalities and differences between the two popular arts. The theatre arts major prepares students for careers in theatre and offers skills essential in film, television, radio, and other production oriented fields. In addition, students in theatre develop skills in problem solving, teamwork, creative processing, collaboration, accountability, and communication of ideas: skills and practices demanded in a wide range of careers.

Our annual theatre production season involves students at all levels in a variety of plays by the masters, contemporary playwrights, and students. Musical productions, in collaboration with the Music Department, provide opportunities for students every year.

Humboldt's production facilities include a 750-seat proscenium theatre, two smaller studio theatres, and an intimate thrust theatre. The program participates in the Kennedy Center American College Theater Festival and the United States Institute for Theatre Technology.

### REQUIREMENTS FOR THE MAJOR

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

#### Unit Requirements

Total units in the major: **48**  
Total units required for the degree: **120**

#### Special Grade Requirement

A minimum grade of C- is required for all courses in the major.

#### Required Courses [34 units]

TA 104	(4) Story Through Word & Image
TA 105	(3) Acting I: Principles of Performance
TA 221	(2) Makeup for Stage & Screen
TA 237	(3) Production Techniques

TA 328	(4) Production Practicum [1 unit course taken for 4 semesters]
TA 340	(4) Theatre History & Criticism I
TA 341	(4) Theatre History & Criticism II [DCG-n]
TA 451	(4) Principles of Stage Directing
TA 494	(2) Senior Seminar

Complete one of the following courses.

TA 331	(4) Scenic Design & Art Direction
TA 333	(4) Lighting Design Stage & Screen
TA 336	(4) Costume Design Stage & Screen

#### Elective Courses [14 units]

TA 215	(4) Acting 2: Principles of Voice & Movement
TA 231	(2) Production & Stage Management
TA 315	(4) Advanced Principles of Acting for the Stage
TA 331	(4) Scenic Design & Art Direction
TA 333	(4) Lighting Design Stage & Screen
TA 336	(4) Costume Design Stage & Screen
TA 367	[1-4] Performance Workshop [2 unit limit toward degree]
TA 377	(1) Kennedy Center American College Theatre Festival
TA 387	[1-4] Design & Technology Workshop
TA 415	(4) Acting for the Camera
TA 480	[1-4] Special Topics in Theatre Arts

#### REQUIREMENTS FOR THE MINOR

Total units required for the minor: **15**

#### Required Courses [5 units]

TA 340	(4) Theatre History & Criticism I, or
TA 341	(4) Theatre History & Criticism II [DCG-n]
TA 328	(1) Production Practicum

#### Elective Courses [10 units]

Complete 10 units focused on performance, design and technology, or a combination of the two areas selected in consultation with a departmental advisor. **Note:** No more than 3 units total of TA 328 may count toward minor unit requirements.

# WATER RESOURCE POLICY MINOR

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## Minor in Water Resource Policy

### Advisor

Mark Baker  
Founders Hall 140  
707-826-3907  
J.Mark.Baker@humboldt.edu

### Department of Politics

Founders Hall 180  
707-826-4494

### The Program

Before beginning, make an appointment with the advisor. After completing two courses, file a program plan.

Students find this background helpful for careers with public and private agencies, non-profit organizations, and the private sector.

Requirements for the minor: 18 units, composed of at least two courses from each of the following three categories.

### REQUIREMENTS FOR THE MINOR

Total units required for the minor: 18

#### Policy/Political Process

Two courses from the following:

- ESM 325 (3) Environmental Law and Regulation
- ESM 425 (3) Environmental Impact Assessment, or
- ENGR 410 (3) Environmental Health & Impact Assessment  
[Prereq: ENGR 313, ENGR 351, ENGR 440]
- PSCI 317 (4) Public Policy Process

#### Water Resources – Social Aspects

Two courses from the following:

- NAS 366 (4) Tribal Water Rights
- PSCI 352 (4) Water Politics
- PSCI 365/GEOG 365 (4) Political Ecology
- ECON 423 (3) Environmental & Natural Resource Economics

#### Water Resources – Physical Aspects

Two courses from the following:

- WSHD 333 (3) Wildland Water Quality  
[Prereq: CHEM 107 or consent of instructor]
- WSHD 310 (4) Hydrology & Watershed Management
- FISH 320 (3) Limnology
- FISH 476 (3) Ecology of Running Waters  
[Prereq: BIOL 105 or IA]
- GEOG 473 (1-4) Topics in Physical Geography [when offered  
Global Water Resources

as

(3)]

or other appropriate courses as approved by minor advisor



# WATERSHED MANAGEMENT MINOR

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## Minor in Watershed Management

See *Natural Resources* for information on the Master of Science degree with a concentration in Watershed Management.

### Advisor

Andrew Stubblefield  
Forestry Building 212  
707-826-3258  
Andrew.Stubblefield@humboldt.edu

### Department of Forestry and Wildland Resources

Forestry Building 205  
707-826-3935, fax 707-826-5634  
fwr:humboldt.edu

### The Program

Focus on watershed processes and interactions between geophysical, biological, and socioeconomic factors in bounded geographic drainage basins. The interplay between watershed processes and the management of other natural resources is integral to these studies.

## REQUIREMENTS FOR THE MINOR

Total units required for the minor: 13

SOIL 260 (3) Intro to Soil Science  
WSHD 310 (4) Hydrology & Watershed Management

Plus one of the following two courses:

GEOLOGY 306 (3) General Geomorphology  
SOIL 360 (3) Origin & Classification of Soils

Plus one of the following two courses:

WSHD 424 (3) Watershed Hydrology  
WSHD 458 (3) Climate Change & Land Use

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# WILDLIFE

## **Bachelor of Science degree with a major in Wildlife –**

concentrations in Wildlife Management & Conservation, Conservation Biology/ Applied Vertebrate Ecology

See *Natural Resources* for information on the Master of Science degree with an concentration in Wildlife.

### **Department Chair**

Daniel Barton, Ph.D.

### **Department of Wildlife**

Wildlife & Fisheries Building 220  
707-826-3953  
humboldt.edu/wildlife

### **The Program**

Students completing this program will have demonstrated:

- knowledge of theories, concepts, and identification procedures in wildlife biology
- use of appropriate evaluative techniques to develop knowledge and to examine questions when conducting wildlife/habitat investigations
- adept presentation of concepts and research findings
- appreciation of sociopolitical factors that affect wildlife conservation and management processes.

Humboldt's wildlife students have the advantage of living close to the ocean, wetlands, and many wildlife sanctuaries. Nearly five million acres of national forest, parks, and public wilderness lands offer hands-on study of wildlife, ecology, and management. Students frequently take field trips to surrounding wildlife areas and focus on laboratory study.

Humboldt's graduates do well as: wildlife biologists, soil scientists, wildlife managers, wildlife refuge managers, park rangers, naturalists, preserve managers, fish and game wardens, conservation officers, fisheries technicians, forestry technicians, range conservationists, agricultural inspectors, and environmental planners.

### **Preparation**

In high school take mathematics, chemistry, biology, and any environmental studies that may be available. Students are expected to be proficient in computer applications.

## **REQUIREMENTS FOR THE MAJOR**

For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.

### **Unit Requirements**

**Total units in the major 73-78**

**Total units required for the degree: 120**

### **Wildlife Management & Conservation Concentration (73-74)**

#### **Lower Division (31 units)**

##### **Life Sciences**

BIOL 105 (4) Principles of Biology  
BOT 105 (4) General Botany  
ZOO 110 (4) Introductory Zoology

##### **Physical Sciences**

CHEM 107 (4) Fundamentals of  
Chemistry

*Complete one of the following:*

CHEM 110 (5) General Chemistry II  
CHEM 128 (3) Introduction to Organic  
Chemistry  
GSP 270 (3) Geographic Information  
Science (GIS) [Prereq: GSP  
101/GSP 101L]  
PHYX 106 (4) College Physics:  
Mechanics & Heat  
SOIL 260 (3) Intro to Soil Science

##### **Mathematics**

MATH 102 (4) Algebra & Elementary  
Functions or equivalent  
STAT 109 (4) Introductory Biostatistics

##### **Conservation, Policy & Administration**

WLDF 210 (3) Introduction to Wildlife  
Conservation and  
Administration  
WLDF 244 (1) Wildlife Policy & Animal  
Welfare

#### **Upper Division (38 units)**

BOT 330 (2) Plant Ecology (lecture only)  
BOT 350 (4) Plant Taxonomy  
WLDF 301 (3) Principles of Wildlife  
Management  
WLDF 311 (4) Wildlife Techniques  
WLDF 365 (3) Ornithology I  
ZOO 356 (3) Mammalogy

*Complete one of the following:*

PHIL 302 (3) Environmental Ethics  
WLDF 309 (3) Case Studies in  
Environmental Ethics  
ESM 425 (3) Environmental Impact  
Assessment

*Complete one of the following:*

ZOO 354 (4) Herpetology  
FISH 310 (4) Ichthyology  
ZOO 314 (5) Invertebrate Zoology  
ZOO 358 (4) General Entomology

#### **Life Forms & Applied Science/Management**

*Complete two of the following courses:*

WLDF 420 (3) Wildlife Management  
(Waterfowl)  
WLDF 421 (3) Wildlife Management  
(Upland Game)  
WLDF 422 (3) Wildlife Management  
(Mammals)  
WLDF 423 (3) Wildlife Management  
(Nongame)

#### **Habitat Ecology/Management**

*Complete one of the following courses:*

WLDF 430 (3) Ecology & Management  
of Wetland Habitats  
WLDF 431 (3) Ecology & Management  
of Upland Habitats

#### **Advanced Classes**

*Complete two of the following courses:*

WLDF 450 (3) Principles of Wildlife  
Diseases  
WLDF 460 (3) Conservation Biology  
WLDF 464 (3) Urban Wildlife Ecology  
WLDF 468 (3) Spatial Wildlife Ecology  
WLDF 470 (3) Animal Energetics  
WLDF 475 (3) Wildlife Ethology  
WLDF 478 (3) Ecology of Wildlife  
Populations

#### **Capstone Classes**

WLDF 485 (1) Senior Seminar

*Complete one of the following:*

WLDF 490 (3) Honors Thesis  
WLDF 492S (3) Senior Project, Service,  
WLDF 495 (3) Senior Project

### **Conservation Biology/Applied Vertebrate Ecology Concentration (76-78)**

#### **Lower Division (30 units)**

##### **Life Sciences**

BIOL 105 (4) Principles of Biology  
BOT 105 (4) General Botany  
ZOO 110 (4) Introductory Zoology

##### **Physical Sciences**

CHEM 107 (4) Fundamentals of  
Chemistry  
CHEM 128 (3) Introduction to Organic  
Chemistry

**Mathematics**

- MATH 105 (3) Calculus for the Biological Sciences & NR  
 STAT 109 (4) Introductory Biostatistics

**Conservation, Policy & Administration**

- WLDF 210 (3) Intro to Wildlife Conservation and Administration  
 WLDF 244 (1) Wildlife Policy and Animal Welfare

**Upper Division (46-48 units)**

- BOT 330/330L (2/1) Plant Ecology and Plant Ecology Lab  
 BIOL 340 (4) Genetics, **or**  
 FISH 474 (4) Conservation Genetics of Fish and Wildlife  
 BOT 350 (4) Plant Taxonomy  
 WLDF 301 (3) Principles of Wildlife Management  
 WLDF 311 (4) Wildlife Techniques  
 WLDF 365 (3) Ornithology I  
 WLDF 460 (3) Conservation Biology  
 ZOOL 356 (3) Mammalogy

**Life Forms & Applied Science/Mgmt.**

*Complete one of the following courses:*

- WLDF 420 (3) Wildlife Management (Waterfowl)  
 WLDF 421 (3) Wildlife Management (Upland Game)  
 WLDF 422 (3) Wildlife Management (Mammals)  
 WLDF 423 (3) Wildlife Management (Nongame)

**Habitat Ecology/Management**

*Complete one of the following courses:*

- WLDF 430 (3) Ecology & Management of Wetlands Habitats for Wildlife  
 WLDF 431 (3) Ecology & Management of Upland Habitats for Wildlife

**Advanced Classes**

*Complete two of the following courses:*

- WLDF 450 (3) Principles of Wildlife Diseases  
 WLDF 464 (3) Urban Wildlife Ecology  
 WLDF 468 (3) Spatial Wildlife Ecology  
 WLDF 470 (3) Animal Energetics  
 WLDF 475 (3) Wildlife Ethology  
 WLDF 478 (3) Ecology of Wildlife Populations

**Capstone Classes**

- WLDF 485 (1) Senior Seminar

*Complete one of the following:*

- WLDF 490 (3) Honors Thesis  
 WLDF 492S (3) Senior Project, Service  
 WLDF 495 (3) Senior Project

**Elective Course**

*Complete one of the following courses:*

- GSP 270 (3) Geographic Information Science (GIS) [Prereq: GSP 101/GSP 101L]  
 FISH 310 (4) Ichthyology  
 STAT 333 (4) Linear Regression Models/ANOVA  
 STAT 406 (4) Sampling Design & Analysis  
 STAT 504 (4) Multivariate Statistics  
 ZOOL 310 (4) Animal Physiology  
 ZOOL 314 (5) Invertebrate Zoology  
 ZOOL 354 (4) Herpetology  
 ZOOL 358 (4) General Entomology

# WOMEN'S STUDIES MINOR

## Minor in Women's Studies

### Certificate of Study in Women's Studies

(See *Certificates of Study*)

See also the *Women's Studies Emphasis within the Critical Race, Gender and Sexuality Studies (CRGS) major*.

### Department Chair

Kim Berry, Ph.D.  
Behavioral & Social Sciences 246

### Department of Critical Race, Gender and Sexuality Studies

Behavioral & Social Sciences 206  
707-826-4329, fax 707-826-4320  
crgs.humboldt.edu

### The Program

Students completing this minor will have demonstrated the ability to:

- use intersectional analysis to examine social issues
- explain prominent debates in critical social theory
- examine gendered, racialized, and/or sexualized relations in a transnational context
- articulate the relationship between social justice movements and history.

As the academic branch of the women's movement, Women's studies challenges assumptions upon which the Western tradition of scholarship has been based and seeks to integrate the diverse experiences and perspectives of women into the curriculum.

Our core curriculum offers students the analytical tools for understanding gender as it is constructed within and through differences of ethnicity, class, sexuality, and nationality. It enables students to interpret the diverse lives, issues, and voices of women in our multicultural and transnational world.

Women's Studies faculty, from departments campuswide, work closely with the program leader to offer a dynamic and student-centered minor, certificate of study, as well as the pathway in Women's Studies within the Critical Race, Gender and Sexuality Studies major. Our program also works with the student-run Women's Resource Center and other women's groups on campus to provide a network of resources, support, and referral on women-centered issues, organizations, and events. We sponsor programs of interest to women, including workshops and speakers.

This program is useful in the following careers: administrator of nonprofit women's organization, affirmative action officer, attorney, community organizer, computer software designer, coordinator of women's programs in government and business, counselor, editor, environmental activist, international development worker, journalist, legal assistant, lobbyist for women's issues, political advocate, psychologist, rape crisis specialist, researcher on women's projects, social worker, teacher, union organizer, urban planner, women's resource center director, women's health care specialist, writer.

### REQUIREMENTS FOR THE MINOR

Total units required for the minor: **16**

#### Required Courses (10 units)

- WS 106 (3) Introduction to Women's Studies  
WS 107 (3) Women, Culture, History  
CRGS 390 (4) Theory & Methods

#### Upper Division Electives (6 units)

Complete a minimum of 6 upper division units. At least one course (3 units minimum) must have significant transnational analysis (these courses are marked with an asterisk).

- CRGS 235 (1) Act to End Sexualized Violence  
CRGS 313/EDUC 313 (3) Community Activism  
CRGS 330 (3) Women of Color Feminisms  
CRGS 360 (4) Race, Gender & US Law  
CRGS 430 (3-4) "Queer" Across Cultures  
WS 300 (3) Psychology of Women  
WS 303 (3) Anticolonial Women's Movements\*  
WS 306/FREN 306/GERM 306/  
SPAN 306 (3) Sex, Class & Culture: Gender & Ethnic Issues in International Short Stories\*  
WS 308B/ENGL 308B (3) Women in Literature  
WS 308C/ENGL 308C (3) Women in Literature\*  
WS 309B/COMM 309B (3) Gender and Communication  
WS 315 (4) Sex, Gender & Globalization\*  
WS 316/SOC 316 (4) Gender & Society  
WS 317/ANTH 317 (4) Women in Development\*  
WS 318/EDUC 318 (3) Gay & Lesbian Issues in Schools

- WS 320 (3) Act to End Violence Seminar  
WS 336/ES 336/ENGL 336 (3) American Ethnic Literature  
WS 340 (3-4) Ecofeminism\*  
WS 350 (4) Health & Body Politics\*  
WS 370 (3-4) Queer Women's Lives, or  
ENGL 360 (4) Special Topics in Literature when offered as Queer Women's Literature  
WS 419/PSYC 419 (3) Family Violence  
WS 436/PSYC 436 (3) Human Sexuality  
WS 465B-C/ENGL 465B-C/ES 465B-C [4] Multicultural Issues in Literature / Languages  
WS 480 (1-5) Special Topics in Women's Studies

And other advisor-approved courses



\* Courses with significant transnational analysis.

# ZOOLOGY

## Bachelor of Science degree with a major in Zoology

### Minor in Zoology

## Master of Science degree in Biology (see Biology)

**Department Chair**  
Amy Sprowles, Ph.D.

**Department of Biological Sciences**  
Science Complex B 221  
707-826-3245  
humboldt.edu/biosci

### The Program

Students completing this program will have demonstrated the ability to:

- apply the scientific method to questions in biology by formulating testable hypotheses, gathering data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses
- present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists
- access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works
- apply fundamental mathematical tools (statistics, calculus) and physical principles (physics, chemistry) to the analysis of relevant biological situations
- identify the major groups of organisms and be able to classify them within a phylogenetic framework. Students will be able to compare and contrast the characteristics of organisms that differentiate the various domains and kingdoms from one another
- use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They will be able to use specific examples to explicate how descent with modification has shaped organismal morphology, physiology, life history, and behavior
- explain how organisms function at the level of the gene, genome, cell, tissue, organ and organ-system. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and behavior of different forms of life
- explicate the ecological interconnectedness of life on earth by tracing energy and

nutrient flows through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems

- demonstrate proficiency in the experimental techniques and methods of analysis appropriate for their area of specialization within biology.

Zoology students at Humboldt can take advantage of our well-developed vertebrate and invertebrate museums. Nearby coastlines, forests, and mountains offer opportunities for studying animals in their native habitats; we also house animals in on-campus quarters. Molecular biology facilities and electron microscopes are available for student use.

Students interested in marine life have use of Humboldt's marine laboratory, located in nearby Trinidad, and the university's research vessel, the *Coral Sea*.

Zoology graduates pursue such careers as: technical writer, zookeeper, environmental consultant, entomologist, herpetologist, mammalogist, health technician, animal nutritionist, laboratory technician, museum curator, science librarian.

### Preparation

In high school take biology, chemistry, and physics (with labs, if possible) plus algebra, geometry, and trigonometry.

### REQUIREMENTS FOR THE MAJOR

*For a description of degree requirements to be fulfilled in addition to those listed below for the major, please see "The Bachelor's Degree" section of the catalog, pp. 67-82.*

### Unit Requirements

**Total units in the major: 72-78**  
**Total units required for the degree: 120**

### Special Grade Requirement

Students who receive a grade below a C- in any prerequisite course will require instructor approval for enrollment.

### Lower Division (34-37 units)

BIOL 105	(4) Principles of Biology
BOT 105	(4) General Botany
CHEM 109	(5) General Chemistry I
CHEM 110	(5) General Chemistry II
CHEM 228	(4) Brief Organic Chemistry
MATH 105	(3) Calculus for the Biological Sciences & NR, <b>or</b>
MATH 109	(4) Calculus I

PHYX 106	(4) College Physics: Mechanics & Heat
PHYX 107	(4) College Physics: Electromagnetism & Modern Physics, <b>or</b>
PHYX 118	(1) College Physics: Biological Applications

STAT 109	(4) Introductory Biostatistics
ZOOL 110	(4) Introductory Zoology

### Upper Division (38-41 units)

BIOL 307	(4) Evolution
BIOL 330	(4) Principles of Ecology
BIOL 340	(4) Genetics
BIOL 350	(3) Cell Biology
ZOOL 310	(4) Animal Physiology

### Animal Structure & Function

*Complete one course:*

ZOOL 370	(4) Comparative Anatomy of the Vertebrates
ZOOL 430	(4) Comparative Animal Behavior
ZOOL 476	(4) Principles of Animal Development

### Invertebrate Diversity

*Complete one course:*

ZOOL 314	(5) Invertebrate Zoology
ZOOL 316	(3) Freshwater Aquatic Invertebrates
ZOOL 358	(4) General Entomology

### Vertebrate Diversity

*Complete one course.*

FISH 310	(4) Ichthyology
WLDF 365	(3) Ornithology I
ZOOL 354	(4) Herpetology
ZOOL 356	(3) Mammalogy

### Upper Division Life Sciences Electives

*Complete two courses, totaling at least 5 units, chosen in consultation with your advisor. Possible courses include the following list, or any animal structure & function; invertebrate or vertebrate diversity course listed above, if not already taken.*

BIOL 412	(4) General Microbiology
BIOL 418	(3) Marine Microbiology
BIOL 433	(3) Microbial Ecology <b>and</b>
BIOL 433D	(1) Microbial Ecology Discussion
BIOL 440	(2) Molecular Genetics Lab
BIOL 450	(2) Cell Biology Lab
BIOL 490	[1-2] Senior Thesis
BIOL 499	[1-2] Directed Study
BIOL 554	(3) Plant/Animal Interactions
BIOL 564	(4) Transmission & Scanning Electron Microscopy

BOT 350	(4) Plant Taxonomy
CHEM 438	(4) Biochemistry
FISH 380	(3) Techniques in Fishery Biology
FISH 434	(4) Ecology of Freshwater Fish
FISH 435	(4) Ecology of Marine Fish
FISH 471	(3) Fish Disease
FISH 474	(4) Conservation Genetics of Fish and Wildlife
WLDF 450	(3) Principles of Wildlife Diseases
WLDF 460	(3) Conservation Biology
ZOOL 325	(4) Advanced Behavioral Neuroscience
ZOOL 530	(3) Benthic Ecology
ZOOL 552	(3) Advanced Invertebrate Zoology
ZOOL 556	(4) Marine Mammalogy
ZOOL 560	(4) Advanced Mammalogy

### **REQUIREMENTS FOR THE MINOR**

**Total units required for the minor: 22**

#### **Lower Division (8 units)**

BIOL 105	(4) Principles of Biology
ZOOL 110	(4) Introductory Zoology

#### **Upper Division (14 units)**

*Complete 14 units of upper division zoology courses approved by the zoology minor advisor. Of these 14 units, a minimum of 6 units must be courses NOT used to satisfy major requirements.*



DRAFT