Program Description
Environmental Resource Management is an interdisciplinary major administered by the Dean of the School of Business and Public Administration. The major is a program of study that includes coursework in the following areas: (1) physical and life sciences relating to natural resource use; (2) the legal aspects of resource ownership and use; and (3) the economic and political aspects of resource allocation and environmental protection. The program also includes basic skills courses in areas such as communications, computers, statistics, and management.

The ERM major is of sufficient breadth to prepare graduates for entry into a wide range of careers relating to the use, management, and protection of environmental assets. These careers are in areas such as resource analysis and planning, occupational safety, environmental health, compliance, technical and environmental staff support, permitting, and real estate development. Graduates typically find employment in both the private and public sectors. Public agencies such as the Bureau of Land Management (BLM) and the United States Forest Service (USFS) typically hire individuals with skills provided within the program.

The program also requires a concentration (typically four courses), which further enhances the student experience. The concentration also gives students an opportunity to specialize in select areas. Concentrations can include Forestry, Environmental Health, Land Use Policy and Planning and Occupational Safety and Health. Distant students can complete the Bachelor’s Degree on-line from anywhere in the United States through the Internet. In furtherance of the university mission, the ERM program has community partnerships, through which the program is able to offer courses and internships in the area of Occupational Safety and Health, and Environmental Health. The ERM experience is rounded out via students engaging in such internships.

Requirements for the Bachelor of Science in Environmental Resource Management

<table>
<thead>
<tr>
<th>Total Units Required to Graduate</th>
<th>180 units</th>
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<tbody>
<tr>
<td>Major Requirements</td>
<td>115-116 units</td>
</tr>
<tr>
<td>Comp Literacy, Math, &amp; Sci</td>
<td>42</td>
</tr>
<tr>
<td>Comm &amp; Mgmt</td>
<td>15</td>
</tr>
<tr>
<td>Law &amp; Public Policy</td>
<td>36-37</td>
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<tr>
<td>Emphasis Area</td>
<td>17</td>
</tr>
</tbody>
</table>

Senior Capstone 5

Other University Requirements 57 units

| CSUB 101                      | 2               |
| American Institutions         | 10              |
| Area A                        | 15              |
| Area B                        | 0*              |
| Area C                        | 15              |
| Area D                        | 5*              |
| Theme 1                       | 0*              |
| Theme 2                       | 5               |
| Theme 3                       | 0*              |
| GRE                           | 5               |
| GWAR (Exam) or Class          | 0*              |

Additional Units 8-9 units

*Area B1, B2, B3, B4, D2, Theme 3, and GWAR can be satisfied in the major.

See http://www.csub.edu/schedules.shtml for current list of courses satisfying university-wide requirements.

Note: One (1) quarter unit of credit normally represents one hour of in-class work and 2-3 hours of outside study per week.

Requirements for the Major in Environmental Resource Management

1. Computer and Statistical Skills (2 courses)
   MATH 140
   One of the following: CMPS 120 or MIS 200A

2. Communication and Management Skills (3 courses)
   COMM 304, MGMT 430
   One of the following: MGMT 300, 460 or PPA 465

3. Life Science (2 courses)
   Two approved life science courses. The following pairs are recommended:
   BIOL 103 and SCI 355A, BIOL 250 and 255

4. Physical Science (5 courses)
   CHEM 101, 150, GEOL 201 or 205, SCI 351B, 352B

5. Environmental Policy Analysis (4 courses)
   ECON 201, 370, PPA 340
   One of the following: ECON 320, 395, 453 or PPA 430

6. Law and Compliance (4 courses)
   PPA 325, 450, INST 420
   One of the following: ERM 300 or ECON 404
   Approved science or math elective

7. Senior Seminar (2 courses)
   ERM 490A and 490B

8. Concentration (4 Courses)
   A minimum of 17 quarter units are required for a concentration. One of the following concentrations or four (4) approved electives must be completed.
   Note: The concentration can be completed at Bakersfield College or taken as part of another
approved community college program. Courses in the concentration cannot be double counted as courses in the major.

**Aera Energy Occupational Safety and Health Management Concentration**
ERM 301, 302, 310, 320

**Land Use Planning and Policy Concentration**
One of the following: ECON 320 or 395
Three courses selected from the following or others approved by the advisor: SOC 367, ECON 390, PPA 479, ANTH 415, PSYC 332, BEHS 321, PPA 340

**Environmental Health Concentration**
Students interested in pursuing careers in the Environmental Health field and/or in becoming a Registered Environmental Health Specialist (REHS) must consult the program Director.

**COURSE DESCRIPTIONS**

**ERM 300 Health and Safety Compliance (4)**
Compliance requirements and practices for regulations governing the protection of people in and around the workplace. Topics selected from personnel monitoring and protection, hazard assessment, hazardous materials management, hazard communication, emergency planning and response, risk management, multimedia compliance audits, and the training function within organizations. Includes conceptual models of hazard analysis as well as exercises and simulations.

**ERM 301 Introduction to Occupational Safety and Health Management (4)**
This course introduces the student to the history and evolution of the safety profession. Students gain an intuitive understanding of the basic components of accident prevention and hazard control. This course also provides and introduction to worker’s compensation, safety and health legislation, ergonomics, hazard analytical tools, communication techniques in safety and health management, emergency preparedness, industrial hygiene and measuring safety program success.

**ERM 302 Advanced Occupational Safety and Health Management (4)**
This course is a continuation of the introductory course (ERM 301). It further explores the topics discussed in ERM 301. Students work in groups on case studies applying previously gained knowledge. The course explores in detail the OSHA regulations and expects students to be familiar with regulations pertinent to various industries.

**ERM 310 Hazardous Materials Management (5)**
Provides an in-depth examination of federal, state and local regulations and requirements for hazardous materials and wastes. Includes definitions of toxic and hazardous material; storage and treatment; transportation; emergency response planning; air and water quality; community concern issues; and risk assessment.

**ERM 320 Industrial Hygiene Fundamentals (5)**
Provides an introduction to the science of protecting the workers’ health through the evaluation of the work environment. Presents the basic principles and techniques for anticipating and recognizing chemical, biological, and physical hazards associated with the workplace environment.

**ERM 413 Environmental Compliance (4)**
Compliance requirements and practices for statutes and regulations governing the protection of air, water, and land resources. Topics will include environmental impact assessment, emergency planning and response, and hazardous waste management. Case studies involving environmental compliance issues will be reviewed and evaluated.

**INST 420 Electronic Legal Research Methods (2)**
An introduction to research using electronic resources such as Lexis/Nexis and the Internet. Emphasis will be placed upon effective search strategy development, mastery of search tools, identification of potential resources, and retrieval of pertinent sources. Course will include legal research using Lexis/Nexis. Student will develop familiarity and skills related to search strategy development, search software, Internet navigation, research sites, and other related skills.

**ERM 477 Special Topics (1-5)**
An in-depth study of an area of land resource management not included in current course offerings. May be repeated for different course content. Prerequisites as announced.

**ERM 489 Experiential Prior Learning (1-5)**
Evaluation and assessment of learning that has occurred as a result of prior off-campus experience relevant to the curriculum of the department. Requires complementary academic study and/or documentation. Available by petition only, on a credit, no-credit basis. Not open to postgraduate students. Interested students should contact the department office. Maximum 5 units within the program. Cannot replace required courses within the major.
ERM 490A Senior Project I (1)
Student proposes and gains approval of an independent research project that will synthesize knowledge in science and technology, law, policy analysis, and other curriculum areas. Significant progress is made on an annotated bibliography and literature review. Prerequisites: Senior standing in the program.

ERM 490B Senior Project II (4)
Student completes activities for use by faculty in assessing learning outcomes for the major. In order to demonstrate integrative skills in this interdisciplinary major, the candidate completes a project that synthesizes knowledge in science and technology, law, policy analysis, and other curriculum areas. The strengths and limitations of each paradigm are recognized and integrated into demonstration of the thesis. Prerequisites: ERM 490A and Senior standing.

ERM 496 Internship in Environmental Resource Management (1-5)
Internships may be arranged with various businesses or agencies. Supervision of the internship is shared by the field supervisor and course instructor. The focus of the internship must be to develop and/or apply competencies pertinent to careers in environmental policy and compliance. Offered on a credit, no-credit basis. The instructor will determine units of credit and their application.

ERM 497 Cooperative Education (1-5)
The Cooperative Education program offers a sponsored learning experience in a work setting, integrated with a field analysis seminar. The field experience is contracted by the Cooperative Education office on an individual basis, subject to approval by the department. The field experience, including the seminar and reading assignments, is supervised by the cooperative education coordinator and the faculty liaison (or course instructor), working with the field supervisor. Students are expected to enroll in the course for at least two quarters. The determination of course credits, evaluation and grading are the responsibility of the department faculty. Offered on a credit, no-credit basis only. Department will determine application of credit.

ERM 499 Individual Study (1-5)
Consent of department required.