

Requirements for the Bachelor of Science in Environmental Resource Management

Total Units Required to Graduate	120 units
Major Requirements*:	64 or 69 units
Concentration requirements:	12 units
Free Units:	12 or 7 units
GE Requirements:	32 units
Foundational Skills*:	9
LD Thematic Area:	9
Needed Areas:	
B*:	0
C1+C2:	6
D*:3	
American Institutions:	6
SELF*:	0
FYS:	2
JYDR:	3
UD Theme* (Need Area C):	3
GWAR*:	0
Capstone:	0

*Some GE requirements are included in the major,

*NOTE: One (1) semester unit of credit normally represents 50 minutes of in-class work and 2-3 hours of outside study.

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Note: One (1) semester unit of credit normally represents 50 minutes of in-class work and 2-3 hours of outside study per week.

While the ERM major is sufficiently broad to appeal to those interested in a variety of environment related fields, the Aera Energy Occupational Safety and Health Management (OSHM) concentration requires knowledge of both the human body and various chemicals and other hazards. In order to best prepare students to successfully complete this concentration, two tracks are available within the major: a general track and a safety track. Compared to the general track, the safety track has more rigorous coverage of the sciences as indicated below, and is required of those interested in pursuing the OSHM concentration:

Requirements for the Major in Environmental Resource Management - General Track – 76 units

1. Skills: Statistics, Management, and Communication (4 courses)

MATH 1209 Statistics in the Modern World (**GE B4**)

COMM 3008 Technical & Report Writing

MGMT 4300 Conflict and Negotiation

PPA 4650 Supervision and team building

2. Life Science (2 courses)

BIOL 1039 Ecology (**GE B1**)

BIOL 2230 Microbiology (4 units)

3. Physical Science (6 courses)

CHEM 1000 Foundations of Chemistry

CHEM 1100 Analytical Chemistry (2 units)

CHEM 2300 Organic Chemistry (2 units)

GEOL 2010 Introduction to Geology (**GE B2**)

SCI 3329 Water and the West (**GE UD Area B**)

SCI 3619 Energy and Technology

4. Economic and Policy Analysis (5 courses)

ECON 2018 Principles of Microeconomics (**GE LD Area D**)

ECON 3508 Environmental Economics

ECON 3550 Economic Geography

ECON 3200 Intro to Geographic Information Systems (GIS)

PPA 3408 Policy Networks OR **INST 3690** Environmental Politics

5. Law and Compliance (4 courses)

ERM 4110 Environmental Law

INST 4200 Legal Research Methods (2 units)

PPA 4750 Intro to Emergency Management

ERM 2900 Intro to OSHM (2 units)

6. Capstone (1 course)

ERM 4908 Senior Seminar (4 units) (**Capstone and SELF**)

7. Concentration (4 Courses) – 12 units

A minimum of 12 units, approved by the program director, are required for a concentration. The courses must either enhance skills acquired through the program, or must add to the body of knowledge within the program. They must also relate to the broader environmental field. For instance, a four-course sequence in Geographical Information Systems (GIS) from an approved institution would enhance program skills. A four-course sequence in Biology, Chemistry, Geology, etc would be considered to add to the program's body of knowledge. *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.*

- 4 Courses (minimum 12 units) approved by the Program Director

Requirements for the Major in Environmental Resource Management - Safety Track – 81 units

1. Skills: Statistics, Management, and Communication (4 courses)

MATH 1209 Statistics in the Modern World (**GE B4**)

COMM 3008 Technical & Report Writing
MGMT 4300 Conflict and Negotiation
PPA 4650 Supervision and team building

2. Life Science (2 courses)

BIOL 2210 Anatomy (4 units) (**GE B1**)
BIOL 2220 Physiology (4 units) (**GE B1**)

3. Physical Science (8 courses)

Chem 1000 Foundations of Chemistry
Chem 1001 Lab (2 units)
CHEM 1100 Analytical Chemistry (2 units)
Chem 2200 Inorganic Chemistry (2 units)
CHEM 2300 Organic Chemistry (2 units)
GEOL 2010 Introduction to Geology (**GE B2**)
SCI 3329 Water and the West (**GE UD Area B**)
SCI 3619 Energy and Technology

4. Economic and Policy Analysis (5 courses)

ECON 2018 Principles of Microeconomics (**GE LD Area D**)
ECON 3508 Environmental Economics
ECON 3550 Economic Geography
ECON 3200 Intro to Geographic Information Systems (GIS)
PPA 3408 Policy Networks OR **INST 3690** Environmental Politics

5. Law and Compliance (4 courses)

ERM 4110 Environmental Law
INST 4200 Legal Research Methods (2 units)
PPA 4750 Intro to Emergency Management
ERM 2900 Intro to OSHM (2 units)

6. Capstone (1 course)

ERM 4908 Senior Seminar (4 units) (**Capstone and SELF**)

7. Concentration – 12 units

- **Aera Energy OSHM Concentration (4 Courses)**
ERM 3010 Introduction to OSHA
ERM 3020 Advanced OSHA
ERM 3100 Hazardous Materials Management
ERM 3200 Industrial Hygiene Fundamentals