
Summary of Catalog Changes

Edits are outlined in additional attached pdf. with reference made to Inserts found in this document.

1. Included **“Revised program description” (Insert A)**
2. Please standardize all fonts
3. Updated both the MAT option and CPNM description. **(Insert C.)**
4. Updated the *Note verbiage and created a new header under **“Electives”** section.
5. Corrects erroneous sum of currently required courses that was missed in and earlier catalog update 37 credits to 39 credits under the **“Required Courses”** section. This is not a credit increase, simply a correction of a miscalculation of credit total.
6. Changed some terminology in number 2. under **“Program Completion Requirements” (Insert C)**
7. Removed BI 513 and BI 514 from under the **“A. Complete 2-5 elective courses from the list below”** selection as they are not currently being offered.
8. Make the following changes because the information is now captured in the header under **“Electives” (Insert B)**
 - a. Removed **“Complete 15 credits of electives from the following two groups or courses:”** under **“Electives”** section
 - b. Removed **“Complete 2-5 elective courses from the list below”** under the **“Electives”** section
 - c. Removed (6-16) **credits** under **“Electives A.”** section
 - d. Removed **“Select 0-3 courses from outside the sciences (if needed to reach 15 credits)*”**
 - e. Removed (0-8 credits) under **“Electives B.”** section.
 - f. Removed **“Examples of potential courses include the following, although other courses may be used subject to advisor approval:”** from under **“Electives B.”**
 - g. Updated List A’s title to be **“Approved Biology Electives”**
 - h. Updated List B’s title to be **“Additional Approved Electives (other courses with advisor approval)”**
 - i. Move the ES courses be from the **“Electives A.”** section to the **“Electives B”**
9. The following ES courses were added to the Additional Approved Elective List: ES 583 (Restoration Ecology), ES 539 (Land Use Planning), ES 551 and ES 551L (Intro to Geog. Info Systems), ES 575 (Environmental Modeling).
10. Added another section, *“C. Other Electives with Advisor Approval”* under **“Elective”** section

Insert A

Revised Program Description language as follows

The Master of Science in Environmental Education program—an [NAAEE](#) accredited program—has been intentionally designed to create capable and skilled leaders through field-based experiences and engaging, rigorous scientific coursework. Students learn to teach through the lens of diversity, equity, and inclusion while developing standards-aligned K-12 curricula and creating environmental educational programs. Applying a strong science background, students collaborate in a cohort model to design, market, deliver, manage, and assess several residential and non-residential place-based programs in the rich Klamath/Siskiyou bioregion.

The collaborative partnerships with the National Park Service and Bureau of Land Management, nonprofit organizations, and other local, state, and federal organizations provide content-rich opportunities for students to utilize internships to individualize their program and craft their professional journey. Program alumni have secured leadership roles directing nonprofits, teaching in formal and informal settings, working with governmental and nongovernmental organizations, and serving as interpretive naturalists and educators in museums, nature centers, and parks.

To join the program, applicants need either a degree in science or a strong background in natural sciences, with coursework approved by the Program Coordinator of the environmental education program. Application instructions are found on the Environmental Education website (<https://enviroed.sou.edu/apply/>). Application materials include the graduate application to SOU, a resume/CV, a letter of intent, official GRE scores, official transcripts, and three letters of recommendation. Applications are reviewed in January and April. Graduate assistantships are available, and candidates must apply by the January deadline. The 18-month program begins in the second summer session and most students complete in December of the following year if no additional options are pursued.

Insert B

Required Courses

(39 credits)

- [EE 524 - Concepts in Environmental Education](#) 3 credits
- [EE 525 - Special Methods in Environmental Education](#) 3 credits
- [EE 526 - Trends in Environmental Education](#) 2 credits
- [EE 527 - Place-Based Curriculum Development](#) 3 credits
- [EE 528 - Environmental Issues](#) 3 credits
- [EE 529 - Environmental Education Program Administration](#) 3 credits
- [EE 592 - Leadership in Environmental Education: Program Development](#) 1 credit (2 total credits required)
- [EE 593 - Practical Applications of Environmental Education](#) 1 to 2 credits (2 credits total required)
- [EE 594 - Leadership in Environmental Education: Program Delivery](#) 4 credits (4 credits total required)
- [EE 595 - Teaching in Environmental Education](#) 4 credits
- [EE 507 - Selected Topics in Environmental Education](#) 1 credit
- [ED 557A - Curriculum, Instruction, and Assessment](#) 3 credits
- [ED 557B - Curriculum, Instruction, and Assessment](#) 3 credits
- [BI 523 - Natural History of the Pacific Northwest](#) 3 credits

Electives

A total of 54 credits are required for program completion. 39 credits are specified by course and a total of 15 electives are chosen from the list below. Based upon preparation and academic background, you will be required to complete at least half of these electives in Biology (list A). Your planned program will indicate how many electives may be chosen out of each of the three lists below. If you are approved to complete a thesis/project it may be substituted for one of the elective courses.

A. Approved Biology Electives

These courses tend to be offered every other year. Normally 2-3 electives are offered term.

- ~~BI 513 - Physiological Ecology of Animals~~ 5 credits
 - ~~BI 514 - Advanced Animal Physiology~~ 5 credits
 - BI 515 - Mammalogy 4 credits
 - BI 533 - Plant Systematics 4 credits
 - BI 534 - Plant Form and Function 5 credits
 - BI 538 - Conservation Biology 3 credits
 - BI 544 - Vascular Plant Identification and Field Botany 3 credits
 - BI 550 - Fish and Fisheries 4 credits
 - BI 554 - Plant Ecology 4 credits
 - BI 566 - Biology of Insects 3 credits
 - BI 570 - Herpetology 4 credits
 - BI 571 - Ornithology 4 credits
 - BI 575 - Aquatic Ecology 4 credits
 - BI 580 - Animal Behavior 4 credits
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B. Approved Electives Outside of Biology

- ES 521 - Ecological Economics and Sustainable Development 4 credits
 - ES 533 - Soil Science 4 credits
 - ES 537 - Conservation in the United States 4 credits
 - ES 539 - Land Use Planning 4 credits
 - ES 551 – Intro to Geological Information Systems 5 credits
 - ES 551L – Intro to Geological Information Systems Lab 0 credits
 - ES 575 – Environmental Modeling 4 credits
 - ES 579 - Biosphere, Ecology, and Global Environmental Change 4 credits
 - ES 580 - Fire Ecology 4 credits
 - ES 581 - Geomorphology 4 credits
 - ES 582 - Climatology 4 credits
 - ES 583 – Restoration Ecology 4 credits
 - COMM 548 - Mediation and Conflict Management 4 credits
 - COMM 555 - Conflict Resolution 4 credits
 - ES 539 - Land Use Planning 4 credits
 - PE 548 - Leadership and Management 3 credits
 - PSY 538 - Group Dynamics 4 credits
 - OAL 570 - Environmental Physiology 3 credits
 - SOAN 520 - Environmental Sociology 4 credits
 - SOAN 552 - Global Environmental Movements 4 credits
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C. Other Electives with Advisor Approval

Insert C

Program Completion Requirements:

1.

Completion of the required coursework (including four approved electives at the graduate level totaling 16 or more credits). Students must achieve a grade of B- or better in all courses. SOU permits up to 16 credits of graduate-level courses (quarter hours or their equivalent) to be transferred into the program with advisor approval.

2.

Successful completion of the exit interviews regarding leadership and teaching in environmental education. The 30-40-minute interviews are conducted with two or more faculty members or instructors following the culminating field educational program delivered by the students (Fall in the Field) using the published scoring guides.

3.

All students must complete an oral examination which is attended by the student's Evaluation Committee which consists of a minimum of three Graduate Faculty, at least two of which are from the Environmental Education faculty or the Biology program. An outside representative from SOU's Graduate Faculty will also attend the Oral Examination. The role of the fourth member is to assure the student is treated fairly and that the standards of SOU are upheld. The oral examination typically takes one-and-a-half hours. It is the responsibility of the student to coordinate a time and place for the examination.

For those students completing the program with a thesis or project, students must apply for completion of thesis or project by the end of the second quarter of coursework at SOU with the Program Coordinator and have secured

an advisor at the time of application. Students conducting research in the field of environmental education complete a thesis while those producing a product complete a project.

Program Options:

1.

While earning their Environmental Education Master's degree, students can also earn an additional Master of Arts in Teaching (MAT) degree with an Oregon Preliminary Teaching License at the Single Subject (Middle/High School) teaching level with endorsements in Integrated Science or Biology. It is also possible for students to earn a MAT and Oregon Preliminary Teaching License at the Multiple Subjects (Elementary School) level. Other licensure options and endorsements are available on a case-by-case basis.

2.

For those intending to work with a non-profit organization or initiate their own program, the Certificate in Nonprofit Management (CNPM) provides vital skills and experiences. The CNPM may be earned with only 24 credits in addition to those required by the Environmental Education master's program. Refer to the [Certificate in Nonprofit Management \(CNPM\)](#) section of the catalog for a complete description of the program.