Date: 20 February 2020

To: Mark Archambault, Assistant Dean of Academics, College of Engineering and Science

Through: Richard B. Aronson, Department Head, Ocean Engineering and Marine Sciences

From: Ralph G. Turingan, Professor, Ocean Engineering and Marine Sciences

Re: Pre-Requisites for Summer Field Courses

I would like to submit the corrected forms that accompany our request to change the requirements for MAR 4904, MAR 4421, and MAR 4420 in response to the comments and suggestions of the UGCC during its meeting on January 24, 2020. Specifically, the committee wanted us to clearly articulate in the forms the changes in the prerequisites for MAR 4904, MAR 4421, and MAR 4420.

Please let me know if we need to make additional corrections before these forms get included in the agenda for the February meeting of the UGCC.
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE Engineering and Sciences

DEPARTMENT OEMS

REQUEST IS FOR CHANGE IN COURSE  MAR 4 9 0 4

Field Biology and Evolution of the Galapagos Islands

Course Title

TO BE INCLUDED IN 20 20 20 21 21 CATALOG

Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? □ Yes □ No

If yes, requested name ____________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? □ Yes □ No

If yes, current credits __________ requested credits __________

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? □ Yes □ No

If yes, please check all that apply:

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite

Prefix Number

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite

Prefix Number

☐ Add ☐ Remove ☐ Other Restrictions* □ Yes □ No

If yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/U, A-F, CEU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

☐ Instructor’s Permission

☐ Yes □ No Is this request for the course to be used to measure program-level student learning outcomes? If yes, review and signature is required*

☐ Yes □ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach “Q” materials for review.

☐ Yes □ No Will this change impact any existing programs? If yes, attach “Changing Graduation Requirements” form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) Ralph G. Turingan

Ralph G. Turingan 2/20/2020

2) Richard B. Aronson

Richard B. Aronson 2/20/2020

3) [Signature]

Date 2/21/2020

4) [Signature]

Date

Director, APAC

Catalog & Curriculum Manager’s Use Only

SCACRSE __________ SCADETL __________ SCAPREQ __________

SCABASE __________ SCARRES __________ ACALOG __________ Operator Initials __________ Date

Florida's STEM University

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RGR-453-0220
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE Engineering and Sciences DEPARTMENT OEMS

REQUEST IS FOR CHANGE IN COURSE  M A R 4 4 2 1 Neotropical Archeology Course Title

TO BE INCLUDED IN 20 20 20 21 21 CATALOG Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? ☐ Yes ☐ No If yes, requested name ________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, current credits ______ requested credits ______

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, please check all that apply:

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite  MAR 4420 ☐ and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite  Prefix Number ☐ and ☐ or

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/U, A-F, CEU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Instructor's Permission

☐ Yes ☐ No Is this request for the course to be used to measure program-level student-learning outcomes? If yes, review and signature is required*

☐ Yes ☐ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes ☐ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) Ralph G. Turlingan 2/20/2020

2) Richard B. Aronson 2/20/2020

3) Date

4) Director, APAC

5) Chair, Graduate Council Date

OR

Chair, Undergraduate Curriculum Committee Date

CATALOG & CURRICULUM MANAGER'S USE ONLY

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SCARASE SCARRES ACATALOG Operator Initials Date

FLORIDA'S STEM UNIVERSITY*

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RGR-453-6220
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE Engineering and Sciences DEPARTMENT OEMS

REQUEST IS FOR CHANGE IN COURSE M A R 4 4 2 0 Precolombian Ecosystem Impacts

Prefix Number Course Title

TO BE INCLUDED IN 20 20 / 20 21 CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE?  [ ] Yes  [ ] No If yes, requested name ____________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?  [ ] Yes  [ ] No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?  [ ] Yes  [ ] No If yes, please check all that apply:

[ ] Add  [ ] Remove  [ ] Prerequisite  [ ] Corequisite Prefix 3410  [ ] and  [ ] or

Add  [ ] Remove  [ ] Prerequisite  [ ] Corequisite Prefix  [ ] Number  [ ] and  [ ] or

[ ] Add  [ ] Remove  [ ] Other Restrictions*  [ ] Yes  [ ] No If yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/U, A-F, CEU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Instructor's Permission - ADD JR. STANDING - REMOVE

[ ] Yes  [ ] No  Is this request for the course to be used to measure program-level student learning outcomes? If yes, review and signature is required*

[ ] Yes  [ ] No  Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

[ ] Yes  [ ] No  Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) [ ] Ralph G. Turingan  2/20/2020

2) [ ] Richard B. Aronson  2/20/2020

3)  2/21/2020

4) [ ] Director, APAC

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FLORIDA'S STEM UNIVERSITY*

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Date: 18 Feb. 2019

To: Dr. Mark Archambault, Assistant Dean of Academics
Through: Dr. Richard Aronson, Department Head, OEMS
Dr. Steve Lazarus, Program Chair, OEMS

From: Dr. Ken Lindeman, OEMS

Cc: Dr. Ralph Turingan, UGCC Representative, OEMS

Subj: CRC for SUS 3999

Based on conversations with Dr. Archambault and Liz Fox, we are requesting that this become a variable credit course (1-3 credits). The dept. will set the number of credits at the schedule level per section.
- Three generations of students are under a different catalogue for SUS 3999 when it was 1 cr. only. Making this a variable credit course is necessary to allow those students to have the option of a 3 cr experience, without forcing it upon them since many are under earlier catalogs.
- This will allow a smooth and fair transition to the expanded course structure for the SUS students.

Further details are in the attached form: CRC for SUS 3999. Thank you for your consideration.
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: COES
DEPARTMENT: OEMS

REQUEST IS FOR CHANGE IN COURSE: SUSTAINABILITY PROJECT DESIGN
Prefix: 3999
Number: 9
Course Title: Sustainability Project Design

TO BE INCLUDED IN 2020-2021 CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? □ Yes □ No If yes, requested name ____________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? □ Yes □ No If yes, current credits requested credits Variable

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? □ Yes □ No If yes, please check all that apply:
□ Add □ Remove □ Prerequisite □ Corequisite Prefix Number □ and □ or
□ Add □ Remove □ Prerequisite □ Corequisite Prefix Number □ and □ or
□ Add □ Remove □ Other Restrictions* □ Yes □ No If yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/U, A-F, CEU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Request: Change course to variable credit (1-3 credits) and add "Instructor Approval" as a restriction.

The prerequisite string will be: Prerequisite: SUS 1500 and Instructor Approval

□ Yes □ No Is this request for the course to be used to measure program-level student learning outcomes?
□ Yes □ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.
□ Yes □ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) ____________________________ 2) ____________________________ 3) ____________________________
Originator: Kent Sokolova  Date: 2/18/2020  Date: 2/18/2020  Date: 2/21/2020
Chair, Graduate Council:  Chair, Undergraduate Curriculum Committee:  Chair, Program Committee:

4) ____________________________
Date: 2/21/2020

CATALOG & CURRICULUM MANAGER'S USE ONLY

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ACATALOG  Operator Initials  Date

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January 22, 2020

Undergraduate Curriculum Committee:

Documents and forms for proposed curriculum changes in the Oceanography degree program (7080) are included herein. The changes involve the removal of ENS 4600 and OCN 4405 which have been idle since 2013 and 2014 respectively. These two courses will be replaced by 3 h of restricted electives under the respective OCN concentrations (Marine Environmental Science and Physical Oceanography). There are no changes to the total number of credits required for graduation.

The faculty that taught these courses have since retired. Note that we (OEMS) are in transition with several recent faculty hires and are now offering a couple of new environmental science courses (Estuarine Ecology and Lab Techniques) this spring under the Special Topics moniker. If these courses are successful, they will be introduced into the ENS curriculum in the future and thus may serve as a future replacement for ENS 4600.

Sincerely

[Signature]

Dr. Steven M. Lazarus
Program Chair, OEMS
Professor of Meteorology
FLORIDA TECH

CHANGING GRADUATION REQUIREMENTS IN A MAJOR/MINOR

The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE Engineering and Sciences

DEPARTMENT Ocean Engineering and Marine Science

DEGREE LEVEL Bachelor of Science

PROGRAM TITLE Oceanography

TO BE INITIATED WITH CATALOG YEAR 20\_20 2_1

CHANGE REQUESTED FOR \_major program \_minor program

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

\_Yes \_No

Will this change impact the program’s assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

DESCRIPTION OF REQUESTED CHANGES Attach a more detailed description and any supporting documentation

Remove and replace ENS 4600 with restricted elective under Marine Env Sci concentration, and OCN 4405 under Physical OCN concentration. Courses have been marked as idle since 2013 and 2014, respectively. Total credits required remain the same.

Marine Environmental Science
ENS 4701 Environmental Regulation and Impact Assessment
MAR 1010 Biological Discovery 1 and MAR 1030 Introduction to Biotechnology
OCN 4106 Mitigation and Restoration of Coastal Systems
Restricted Elective (OCN/ENS) Credit Hours: 6
Technical Electives Credit Hours: 12

Physical Oceanography
MTH 2001 Calculus 3 or MTH 2010 Honors Calculus 3 and
MTH 2201 Differential Equations/Linear Algebra or MTH 3200 Honors Differential Equations
MTH 3210 Introduction to Partial Differential Equations and Applications
OCE 3521 Hydromechanics and Wave Theory
OCE 3522 Water Wave Lab
OCN 3430 Fundamentals of Geophysical Fluids
OCN 3433 Geophysical Fluids Laboratory
Restricted Elective Credit Hours: 3
Technical Electives Credit Hours: 6

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Catalog & Curriculum Manager.

Chair, Graduate Council

Date

OR

Chair, Undergraduate Curriculum Committee

Date

REGISTRAR'S USE ONLY

CAPP / Degree Evaluation

\_Yes \_No

Update completed

Academic Year

Initials

Catalog Management System

\_Yes \_No

Update completed

Academic Year

Initials

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RGR-408-519
Current Program Plan

Marine Environmental Science

- ENS 4600 Radiation and Environmental Protection
- ENS 4701 Environmental Regulation and Impact Assessment

- MAR 1010 Biological Discovery 1
  and
- MAR 1030 Introduction to Biotechnology

- OCN 4106 Mitigation and Restoration of Coastal Systems
- Restricted Elective (OCN/ENS) Credit Hours: 3
- Technical Electives Credit Hours: 12

Physical Oceanography

- MTH 2001 Calculus 3
  or
- MTH 2010 Honors Calculus 3

- MTH 2201 Differential Equations/Linear Algebra
  or
- MTH 3200 Honors Differential Equations

- MTH 3210 Introduction to Partial Differential Equations and Applications
- OCE 3521 Hydromechanics and Wave Theory
- OCE 3522 Water Wave Lab
- OCN 3430 Fundamentals of Geophysical Fluids
- OCN 3433 Geophysical Fluids Laboratory
- OCN 4405 General Dynamic Oceanography
- Technical Electives Credit Hours: 6
New Program Plan

**Marine Environmental Science**

- ENS 4600 Radiation and Environmental Protection
- ENS 4701 Environmental Regulation and Impact Assessment

- MAR 1010 Biological Discovery 1
  
  and
  
  - MAR 1030 Introduction to Biotechnology

- OCN 4106 Mitigation and Restoration of Coastal Systems
- Restricted Elective (OCN/ENS) Credit Hours: 6
- Technical Electives Credit Hours: 12

**Physical Oceanography**

- MTH 2001 Calculus 3
  
  or
  
  - MTH 2010 Honors Calculus 3

- MTH 2201 Differential Equations/Linear Algebra
  
  or
  
  - MTH 3200 Honors Differential Equations

- MTH 3210 Introduction to Partial Differential Equations and Applications
- OCE 3521 Hydromechanics and Wave Theory
- OCE 3522 Water Wave Lab
- OCN 3430 Fundamentals of Geophysical Fluids
- OCN 3433 Geophysical Fluids Laboratory
- OCN 4405 General Dynamic Oceanography

- Technical Electives Credit Hours: 6
- \*RESTRICTED ELECTIVE 3

\*NOT FOR S.L.
January 22, 2020

Undergraduate Curriculum Committee:

Documents and forms for proposed curriculum changes in the Environmental Science degree program (7222) are included herein. The changes involve the removal of ENS 4600 and ENS 4800 which have been idle since 2013 and 2015 respectively. These two courses will be replaced by 6 h of restricted electives – 3 h during each the senior fall and spring semesters. There are no changes to the total number of credits required for graduation.

The faculty that taught these courses have since retired. Note that we (OEMS) are in transition with several recent faculty hires and are offering/testing a couple of new environmental science courses this spring under the special topics moniker. If these courses are successful, they will be introduced into the ENS curriculum and thus may serve as a future replacement.

Sincerely

[Signature]

Dr. Steven M. Lazarus
Program Chair, OEMS
Professor of Meteorology
The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE: Engineering and Sciences

DEPARTMENT: Ocean Engineering and Marine Science

DEGREE LEVEL: Bachelor of Science

PROGRAM TITLE: Environmental Science

TO BE INITIATED WITH CATALOG YEAR 2020 2021

CHANGE REQUESTED FOR: □ major program □ minor program 7222

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

☐ Yes □ No Will this change impact the program’s assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

DESCRIPTION OF REQUESTED CHANGES: Attach a more detailed description and any supporting documentation.

Remove and replace ENS 4600 and ENS 4800 with restricted electives. Both courses have been marked as idle since 2013 and 2015, respectively. Total credits required remain the same.

Senior Year
Fall (15 credit hours)
BUS 4426 Environmental and Resource Economics
ENS 4912 Environmental Field Projects 2 (Q)
MAR 3410 General Ecology
Restricted Elective Credit Hours: 3*
Social Science Elective Credit Hours: 3

Spring (16 credit hours)
ENS 4004 Aquatic Environmental Toxicology
ENS 4701 Environmental Regulation and Impact Assessment
ENS 4911 Environmental Field Projects 1 (Q)
OCN 4204 Marine and Environmental Pollution
Restricted Elective Credit Hours: 6* 

*Science (including aviation science), engineering or business courses, subject to the approval of the environmental sciences program chair before registering.

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Catalog & Curriculum Manager.

Registrar’s Use Only

CAPP / Degree Evaluation
☐ Yes ☐ No Update completed Date Initials

Catalog Management System
☐ Yes ☐ No Update completed Date Initials

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PGR-409-519

[Signatures]

Chair, Graduate Council
Date

Chair, Undergraduate Curriculum Committee
Date

Dean of Associate Dean
Date
Current Program Plan

Senior Year

Fall (15 credit hours)

- BUS 4426 Environmental and Resource Economics
- ENS 4800 Limnology
- ENS 4912 Environmental Field Projects 2 (Q)
- MAR 3410 General Ecology
- Social Science Elective Credit Hours: 3

Spring (16 credit hours)

- ENS 4004 Aquatic Environmental Toxicology
- ENS 4600 Radiation and Environmental Protection
- ENS 4701 Environmental Regulation and Impact Assessment
- ENS 4911 Environmental Field Projects 1 (Q)
- OCN 4204 Marine and Environmental Pollution
- Restricted Elective Credit Hours: 3

New Program Plan

Senior Year

Fall (15 credit hours)

- BUS 4426 Environmental and Resource Economics
- ENS 4800 Limnology
- ENS 4912 Environmental Field Projects 2 (Q)
- MAR 3410 General Ecology
- Social Science Elective Credit Hours: 3

Spring (16 credit hours)

- ENS 4004 Aquatic Environmental Toxicology
- ENS 4600 Radiation and Environmental Protection
- ENS 4701 Environmental Regulation and Impact Assessment
- ENS 4911 Environmental Field Projects 1 (Q)
- OCN 4204 Marine and Environmental Pollution
- Restricted Elective Credit Hours: 3

*Science (including aviation science), engineering or business courses, subject to the approval of the environmental science program chair before registering.
January 22, 2020

Undergraduate Curriculum Committee:

Documents and forms for proposed curriculum changes in the Environmental Science (Minor, 2222) program are included herein. The changes involve the removal of ENS 4800 which has been idle since 2015. The faculty that taught this course has retired. The remaining courses listed for the ENS minor remain active and satisfy the required 19 credit hours. Note that we (OEMS) are in transition with several recent faculty hires and are now offering a couple of new courses including Estuarine Ecology and Lab Techniques this spring under the Special Topics moniker. If these courses are successful, they will be introduced into the ENS curriculum in the future.

Sincerely

[Signature]

Dr. Steven M. Lazarus
Program Chair, OEMS
Professor of Meteorology
The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE: Engineering and Sciences

DEPARTMENT: Ocean Engineering and Marine Science

DEGREE LEVEL: Nondegree

PROGRAM TITLE: Environmental Science

TO BE INITIATED WITH CATALOG YEAR 2020

CHANGE REQUESTED FOR □ major program □ minor program

2021

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

☐ Yes □ No Will this change impact the program's assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

DESCRIPTION OF REQUESTED CHANGES: Attach a more detailed description and any supporting documentation

Remove ENS 4800. Course has been marked as idle since 2015. Total credits required remain the same.

Curriculum (19 credit hours)

Students must complete the following curriculum. All courses are three credit hours, with the exception of the one-credit-hour ENS 4901 Special Topics in Environmental Science.

ENS 1001 The Whole Earth Course
ENS 3101 Atmospheric Environments
ENS 4004 Aquatic Environmental Toxicology
ENS 4010 Geographic Information Systems
ENS 4300 Renewable Energy and the Environment
ENS 4700 Environmental Hydrology
ENS 4901 Special Topics in Environmental Science

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Catalog & Curriculum Manager.

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□ Yes □ No Update completed: Date Initials

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Current Program Plan

Environmental Science Minor

Minor Code: 6222
Age Restriction: N
Delivery Mode(s): classroom only

Degree Awarded: none
Admission Status: undergraduate
Location(s): main campus

Curriculum (19 Credit Hours)

Complete:

- ENS 1001 The Whole Earth Course
- ENS 3101 Atmospheric Environments
- ENS 4004 Aquatic Environmental Toxicology
- ENS 4010 Geographic Information Systems
- ENS 4300 Renewable Energy and the Environment
- ENS 4700 Environmental Hydrology
- ENS 4800 Limnology
- ENS 4901 Special Topics in Environmental Science

New Program Plan

Environmental Science Minor

Minor Code: 2222
Age Restriction: N
Delivery Mode(s): classroom only

Degree Awarded: none
Admission Status: undergraduate
Location(s): main campus

Curriculum (19 Credit Hours)

Complete:

- ENS 1001 The Whole Earth Course
- ENS 3101 Atmospheric Environments
- ENS 4004 Aquatic Environmental Toxicology
- ENS 4010 Geographic Information Systems
- ENS 4300 Renewable Energy and the Environment
- ENS 4700 Environmental Hydrology
- ENS 4800 Limnology
- ENS 4901 Special Topics in Environmental Science