



**Environmental Sciences**  
**Undergraduate Program**

**2016-2017**

**Advising Guide for Ecampus Students**

*Revised 4/21/16*





## Environmental Sciences Undergraduate Program

### A Hands-On Interdisciplinary Approach

Air and water pollution, depletion of ozone in the stratosphere, buildup of greenhouse gases in the atmosphere, nuclear waste, and oil spills in our seas – these are pressing problems that endanger our environment. Scientists must be trained to examine and understand complex environmental issues, to predict environmental change, and to participate in responsible management of the environment. To help reach these objectives, Oregon State University (OSU) and the College of Earth, Ocean, and Atmospheric Sciences (CEOAS) offers an interdisciplinary approach to environmental problem solving with the Environmental Sciences (ENSC) Bachelor of Science (BS) degree.

#### Environmental Sciences Major

The ENSC curriculum provides breadth of training in the sciences, mathematics and relevant social sciences and humanities. Depth is acquired by specializing in a defined field such as applied ecology. Students are encouraged to take advantage of opportunities for hands-on experience in collecting and analyzing data in the physical, biological or social sciences related to the environment.

<http://bit.ly/osu-catalog-ensc-major>

#### Environmental Sciences Minor

A minor in ENSC is available to all OSU students. A minimum of 27 credits is required, with some sharing restrictions on courses used in the major.

<http://bit.ly/osu-catalog-ensc-minor>

#### Career Opportunities

A variety of career opportunities are available for students graduating with a BS in ENSC. Federal agencies, such as the Environmental Protection Agency, the Department of Energy, and the U.S. Forest Service hire qualified graduates, as do private companies, consulting firms and universities. Our graduates often go on to pursue credentials for teaching science at high school or middle school levels.

<http://bit.ly/ensc-occupational-outlook>

<http://bit.ly/ensc-occupational-employment-stats>

<http://bit.ly/ensc-onet-online-summary-report>

<http://bit.ly/ensc-green-careers>

<http://bit.ly/ensc-professional-associations>

#### Graduate Opportunities

Some ENSC students continue their studies by attending graduate school – typically focusing on work related to their specialization area as an undergraduate. For example – Students who wish to complete advanced work in ecology may select the Applied Ecology option. Graduates could combine their scientific background with law, and pursue a career in environmental law. Or, an MBA degree would qualify students to assume leadership positions in the environmental divisions of large corporations.

Learn what typical ENSC graduates do after they complete their degree. The 2011 ENSC Alumni Survey includes student ratings of their experiences at OSU and the ENSC Program.

<http://bit.ly/ensc-alumni-survey-2011>

#### Undergraduate Opportunities

There are many ways for students to gain skills and experience outside of the online classroom. ENSC students are encouraged to pursue experiential opportunities, many of which may fulfill the “[Experiential Learning](#)” requirement for the ENSC degree.

Opportunities available through OSU that Ecampus students may take advantage of are outlined on the following page.



## ENSC Undergraduate Program: A Hands-On Interdisciplinary Approach

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### Internships

With an emphasis on experiential learning and skill development, undergraduates in the College of Earth, Ocean, and Atmospheric Sciences (CEOAS) have access to an Experiential Learning Coordinator offering specialized opportunities and assistance for undergraduates in Environmental Sciences (ENSC). Students may elect to enroll in internship credits to meet the required 3 credits of experiential learning.

<http://ceoas.oregonstate.edu/internships/undergraduate/>

### International Opportunities

Go abroad in Environmental Sciences! Directly experience different cultures and ecosystems, while gaining valuable skills desired by employers in academia, non-profits, industry and state and federal agencies, including those necessary to work effectively with an increasingly diverse US population and a global job market.

There is an international experience that will work for every ENSC student. In addition, many study abroad programs offer coursework that counts towards requirements in the ENSC degree. Learn more by exploring the guide for opportunities abroad in environmental sciences.

<http://international.oregonstate.edu/files/IDEA/CI/ci-environmental-sciences.pdf>

- **IE3 Global Internships**

IE<sub>3</sub> Global Internships is an Oregon University System (OUS) program that allows students to explore their professional goals through an internship in an international context. The program acts as a bridge between a student's academic experience at OSU and future employment or studies in graduate school.

<http://international.oregonstate.edu/osugo/international-internships/ie3-global-internships>

- **Study Abroad Programs**

Through its Office of Global Opportunities (GO), OSU GO offers over 200 programs in countries across the world that enable students to study at a university, or participate in an international field course. Participating students work with their advisor to determine the best fit of coursework towards ENSC major requirements.

<http://international.oregonstate.edu/osugo/study-abroad-programs>

### Degree Partnership Opportunities

ENSC students can take advantage of the collaborative relationship between OSU and many Oregon community colleges through the Degree Partnership Program (DPP). A single application process allows students to be dually enrolled at OSU and one or more DPP community colleges -- at no additional cost!

There are many benefits to the program, including financial aid benefits, lower tuition costs, and automatic transfer of coursework.

<http://oregonstate.edu/partnerships/students>

Applications are accepted each term. If you are unsure if or when you should apply, check with your advisor.

*ENSC students are encouraged to partner with Chemeketa\* Community College, as they offer an online [physics](#) sequence required for the ENSC degree, which OSU does not. In addition, Chemeketa Online offers many lower division courses that fulfill the Baccalaureate Core and Basic Science & Math requirements.*

<http://online.chemeketa.edu/>

<http://learning.chemeketa.edu/catalog/>  
<http://oregonstate.edu/admissions/main/course-equivalencies-chemeketa-community-college>

<http://oregonstate.edu/admissions/main/baccalaureate-core-course-equivalencies>

\* Pronunciation: ch uh - M EH K - ih t - t uh



# Environmental Sciences Undergraduate Program

## The Curriculum

Students in the Environmental Sciences (ENSC) Undergraduate Program begin by building a strong foundation in basic math, sciences and the humanities – through both the Baccalaureate Core and the major requirements. In the junior year, the curriculum focuses on natural environmental systems as well as the interface between humans and the environment. By this time, students have also chosen an area of specialization on which to focus. The ENSC program also requires that students complete an experiential learning requirement, usually an internship or research experience that provides an opportunity to actively engage in the field of environmental sciences.

### Graduation Requirements for Bachelor of Science

To receive a Bachelor of Science (BS) degree at OSU you must complete the following requirements. Ideally, these are met concurrently with completion of major requirements.

- One course in each of the Baccalaureate Core categories (48 credits minimum)^
- Writing Intensive Course within the major (3 credits minimum)
- Minimum of 180 total credit^
- Minimum of 60 upper division credits (300 level or above)^

*A grade of C- or better is required for upper-division courses to meet major requirements.*

- Minimum of 45 of the last 75 credits must be completed as OSU courses, and 15 of the 45 credits must be upper division
- Minimum 2.00 cumulative OSU GPA
- Minimum 2.00 GPA in major or minor
- Minimum of 36 credits must be taken in the major ; of these, 24 must be upper division
- Foreign Language^

<http://catalog.oregonstate.edu/ChapterDetail.aspx?key=6#Section38>

*^Post-baccalaureate students meet these requirements with past coursework.*

### The Baccalaureate Core (51 credits) ▲

The Baccalaureate Core (Bacc Core) curriculum provides a foundation for students' further understanding of the modern world. Informed by natural & social sciences, and arts & humanities, the Baccalaureate Core requires students to think critically and creatively, and to synthesize ideas and information when evaluating major societal issues. It promotes understanding of interrelationships among disciplines in order to increase students' capacities as ethical citizens of an ever-changing world.

Students must complete a total of 48 credits plus a Writing Intensive course (WIC) of at least 3 credits.

<http://oregonstate.edu/main/baccalaureate-core-program-summary-chart>  
<http://main.oregonstate.edu/baccalaureate-core/current-students/bacc-core-learning-outcomes-criteria-and-rationale>

*Many Bacc Core courses are used as electives in the ENSC major, and may double-count to meet one requirement in each area. See explanation on ENSC Ecampus [Curriculum Worksheet](#).*

The following is a list of the categories that make up the Baccalaureate Core requirements:

- **Skills Courses (15 credits)**

Skills Courses provide a foundation in writing, speech, basic mathematics, and lifelong health & fitness.

*For transfer students, WR II and Speech must be completed in the first 45 OSU credit hours.*



## ENSC Undergraduate Program: The Curriculum

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- **Perspective Courses (27 credits)**  
Perspectives Courses emphasize the arts, sciences, cultural diversity, literature, and global awareness.

*No more than 2 courses from any subject area may be used for these requirements.*

- **Difference, Power and Discrimination (3-4 cr)**  
DPD courses aim to enhance meaningful democratic participation in our diverse university community and increasingly multicultural society, through an intellectual examination of the ways discrimination is sustained.

*Transfer courses may/may not fulfill this.*

- **Synthesis Courses (6 credits)**  
Synthesis Courses are upper division classes which are divided into two areas: Contemporary Global Issues and Science, Technology, and Society.

*Courses may not be from the same subject.*

- **Writing Intensive Course (3-4 credits)**  
Every discipline has its own standards for writing. WIC courses are designed to give students practice writing within their major.

Approved ENSC online courses include:

Any Specialization – AEC 434, AG 421,  
ECON 439, ENSC 479, FW 435, FW 439,  
GEO 323, HORT 318, HSTS 419, PS 449

Environmental Agriculture – HORT 318

Environmental Policy and Economics – ECON 439,  
PS 449

Applied Ecology, or Conservation, Resources and  
Sustainability – FW 435, FW 439, FW 454

Earth Systems, or Environmental Water Resources  
– GEO 323

*Transfer courses will not fulfill this requirement.*

## Environmental Sciences Major ▲

The Environmental Sciences (ENSC) Major is comprised of the following requirement areas:

- Basic Science and Math
- ENSC Core
- Specialization
- Experiential Learning

For official curriculum details, refer to the online catalog, <http://bit.ly/osu-catalog-ensc-major>.

- **Basic Science and Math (BSM) (53-55 credits)**  
Every environmental scientist must have a solid grounding in basic sciences and math to enable an understanding of environmental problems and potential solutions. To that end, students complete a full year of *biology* and *chemistry*, as well as courses in *calculus*, *statistics* and *physics*.

*All BSM courses may be taken locally\* with prior approval – this is highly encouraged to ensure a greater chance of success in this critical block.*

Refer to the **Basic Science and Math Guidelines** for help selecting appropriate coursework:  
<http://ecampus.oregonstate.edu/online-degrees/undergraduate/es/basic-math-science-guidelines.pdf>

*\*If not an Oregon [degree partner](#) school, federal financial aid may not be disbursed.*

- 1. Math** – Two quarters of calculus (MTH 251/252) or two semesters are required for the major. Applied calculus does not meet degree requirements. Students are required to take a [math placement test](#) before their program orientation, unless Calculus I and II have been completed or you are currently enrolled in a math class. The score you receive will help develop us a strategy for successful completion of the sequence. This may involve repeating or reviewing a course.
- 2. Chemistry** – A full year of general chemistry (CH 121/122/123) is required. We don't recommend students enroll during summer term due to shorter session lengths. If you completed one semester of transfer chemistry, you will need two more quarters (CH 122/123).



## ENSC Undergraduate Program: The Curriculum

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### • **Basic Science and Math (BSM)**

3. **Biology** – Ecampus offers an online introductory biology sequence – BI 204 (fall), BI 205 (winter) and BI 206 (spring). These may be taken out of order, though it is highly recommended to start at the beginning. While a D- is considered a passing grade, *a C- or better is required in all three courses* in order to enroll in BI 370 (General Ecology for Biosphere). If you completed a partial sequence and plan to finish it online, you will need to submit a petition, with syllabus and course outline, to the biology dept. for approval of a split sequence.  
<http://ib.oregonstate.edu/course-petition>
4. **Physics** – Two quarters (PH 201/202) or one semester of algebra-based physics will meet major requirements. A third quarter (PH 203) or second semester is recommended for students who plan graduate school in a science field. Ecampus does not currently offer an online physics sequence. However, our community college degree partner – *Chemeketa CC* – does. If you receive federal financial aid, the credits between the two schools are aggregated to meet any minimum credit requirements. See the [Degree Partnership Opportunities](#) section of this guide for more information.
5. **Statistics** – Two quarters (ST 351/352) of upper-division statistics is required. If you completed one semester of transfer statistics, you may need to submit a [petition](#) for approval to use this as the enforced prerequisite for ST 352. We will accept MTH 243/244 from our community college degree partner – *Chemeketa CC* – to meet the degree requirement. However, it will not count towards upper-division credit. See the [Degree Partnership Opportunities](#) section of this guide for more information.

### • **Environmental Sciences Core (27-34 credits)**

The ENSC Core is intended to give students breadth in the field as a whole, and is divided into two categories.

*Some courses in these categories also satisfy [Bacc Core](#) requirements. See explanation on ENSC Ecampus [Curriculum Worksheet](#).*

**Natural Environmental Systems** – Students learn about the four spheres of the environment:

- Atmosphere
- Biosphere
- Geosphere
- Hydrosphere

**Humans and the Environment** – Students learn about the influences of humans on the environment with requirements in:

- Economics
- Ethics and Environmental Ethics
- Human Environment
- Environmental Law and Policy
- Environmental Management

### • **Specialization Area (≥ 27 credits)** ▲

Whereas the ENSC Core emphasizes breadth, the specialization area focuses the student on acquiring depth in one area of the field. It is intended to give students a strong sense of academic identity, and to ensure each student has specialized knowledge in some aspect of environmental sciences.

<http://ceoas.oregonstate.edu/envsci/specializations/>

ENSC Ecampus students may choose from one of the following eight specialization areas:

1. Applied Ecology
2. Aquatic Biology
3. Conservation, Resources and Sustainability
4. Earth Systems
5. Environmental Agriculture
6. Environmental Policy and Economics
7. Environmental Water Resources
8. Geographic Information Science (certificate)

*Students typically declare a specialization once the majority of the Baccalaureate Core and Basic Science and Math requirements are completed, though it can be declared at any time. Ask your advisor for assistance.*



## ENSC Undergraduate Program: The Curriculum

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- **Experiential Learning (≥ 3 credits)** ▲  
All ENSC students must complete a minimum of 3 credit hours of “experiential learning” related to environmental sciences.

*You are encouraged to become engaged in as many experiential learning activities as possible during your academic program – for academic credit or not; paid or unpaid. Extracurricular involvement and networking are one way to distinguish yourself as you embark on the next step in your career.*

The requirement can be met with an approved internship, or approved coursework:

**Internship** – An internship provides a way for a student to earn academic credit (ENSC 410) for relevant work done for a business, government agency, research lab, or other organization. It consists of full or part-time work which furthers and enriches a student’s education. Students may earn up to 12 internship credits (1 credit = 30 hours of work). Students submit a completed Internship Agreement Form to the Experiential Learning Coordinator for approval, before enrolling in the requested number of ENSC 410 credits. The Experiential Learning Coordinator provides a weekly newsletter with jobs and internship opportunities to provide ideas and assist in locating internships. Students are required to submit a written report and confirmation from their internship sponsor at the end of the experience. <http://ceas.oregonstate.edu/internships/undergraduate/>

**Coursework** - Certain courses provide “hands-on” experience consistent with the purpose of the Experiential Learning requirement. Refer to the ENSC Ecampus [Curriculum Worksheet](#) for a list.

## Non Major Courses of Interest ▲

There are a number of courses that may be of interest to students that do not meet ENSC curriculum requirements, yet may serve a specialized need or interest.

Below are some common suggestions.

- ALS 108 (2) - Online Learning Success
- ALS 116 (2) - Academic Success
- ALS 114 (2) - Career Decision Making
- COMM 326 (3) - Intercultural Communication
- COMM 328 (3) - Nonverbal Communication
- CROP 499 (1) - Special Topics in Crop Sciences
- [Foreign Language](#)
- GRAD 420 (1) - Graduate School Prep
- PAC 130 (1) - Body Conditioning
- PAC 212 (1) - Running and Jogging
- PAC 294 (1) - Yoga
- PSY 360 - Social Psychology

A complete list of online subjects can be found in the [Ecampus Schedule of Classes](#).

**Environmental Sciences Undergraduate Program  
2016-2017 Ecampus Curriculum Worksheet**

Student Name: \_\_\_\_\_

<http://catalog.oregonstate.edu/MajorDetail.aspx?major=657&college=24>

Student ID: \_\_\_\_\_

**A. OSU BACCALAUREATE CORE (51 credits) – further your understanding of the modern world**

① Find complete policies and eligible courses in OSU General Catalog, <http://catalog.oregonstate.edu/bcc.aspx>; ② Find online courses in the Ecampus Schedule of Classes, <http://ecampus.oregonstate.edu/soc/ecatalog/bcc.htm>; ③ Post Bacc students only need WIC for this section.

✓ Some courses taken in Section A may fulfill requirements in Section B/C/D – See headnote 2 & 3 in Section C for explanation.

† Requirement may be met with courses taken through Chemeketa Online, <http://online.chemeketa.edu/>.

**Skills (15)** – Transfer students sophomore standing or above must complete WR II and Speech within the first 45 hs of OSU coursework.

- |                            |                            |  |
|----------------------------|----------------------------|--|
| ( ) Writing I (3) † _____  | WR 121 with a C- or better | ( ) Fitness Lecture – HHS 231 (2) † _____  |
| ( ) Writing II (3) † _____ |                            | ( ) Fitness Lab – HHS 241 or PAC (1) _____ |
| ( ) Speech (3) † _____     | COMM 211                   | (✓) Mathematics (3-4) _____                |

**Perspectives (27)** – No more than 2 courses from any one subject may be used to satisfy the Perspectives requirement.

- |   |   |
|---|---|
| (✓) Physical Science w/lab (4) _____      | ( ) Cultural Diversity (3) † _____        |
| (✓) Biological Science w/lab (4) _____    | ( ) Literature and Arts (3) † _____       |
| (✓) Physical/Biological Science (4) _____ | (✓) Social Proc. & Inst. (3) [SI] † _____ |
|   | ( ) Western Culture [WC] (3) † _____      |

( ) **Difference, Power, Discrimination [DPD]** (3) ✓ \_\_\_\_\_

e.g. FW 340, GEO 309, or see Bacc Core only choices

**Synthesis (6-8)** – Courses may not be from same dept.

( ) Contemporary Global Issues [G] ✓ \_\_\_\_\_

e.g. FW 325, PHL 443, or see Bacc Core only choices

( ) **Writing Intensive Course [wic]** (3-4) ✓ \_\_\_\_\_

( ) Science, Tech & Society [S] ✓ \_\_\_\_\_

e.g. ANTH 481, AEC 352, ENSC 479, or see Bacc Core

AEC 434, AG 421, ECON 439, ENSC479, FW 435, FW 439, GEO 323, HORT 318, HSTS 419, PS 449

**B. BASIC SCIENCE and MATH (53-55 credits) – develop a foundation for courses taken in the major**

① NO S/U grades; ② All sequences may be taken in-person with prior approval – <http://ecampus.oregonstate.edu/online-degrees/undergraduate/es/BasicMTH-SCIguidelines.pdf>; ③ Financial aid may not be disbursed for courses taken locally; ④ Sequences are listed in the order we recommend they be completed. \*A grade of C- or better is required.

- |   |   |
|---|---|
| ( ) <b>1. Math</b> Two quarters/semesters of calculus                                       | ( ) <b>2. Chemistry</b> Full year of general chemistry  |
| ALEKS test score = _____  | ( ) CH 121 (5) * _____  |
| ( ) MTH 251 (4) *† _____  | ( ) CH 122 (5) * _____  |
| ( ) MTH 252 (4) *† _____  | ( ) CH 123 (5) * _____  |
| ( ) <b>3. Biology</b> Full year w/lab for majors  | ( ) <b>4. Physics</b> Two quarters/one semester algebra-based physics   |
| – Online sequence. May be taken out of order but not recommended.                           | – May be completed online through Chemeketa CC; eligible for financial aid; apply to the OSU Degree Partnership Program;. |
| – If full sequence not taken at OSU, preapproval required by biology department.            | – Complete a full year if planning graduate school in science field   |
| ( ) BI 204 (4) * [f] _____  | ( ) PH 201 (5) † [f] _____  |
| ( ) BI 205 (4) * [w] _____  | ( ) PH 202 (5) † [w] _____  |
| ( ) BI 206 (4) * [sp] _____   |   |
| ( ) <b>5. Statistics</b> Two terms of statistics  |   |
| – MTH 243/244 from Chemeketa Online will meet requirement though not upper-division credit. |   |
| ( ) ST 351 (4) *† _____   |   |
| ( ) ST 352 (4) *† _____   |   |

**C. ENVIRONMENTAL SCIENCES and HUMANITIES CORE (27-34 credits) – gain breadth in environmental sciences**

① NO S/U grades; ② NO double counting between Section C and D, or within C and D; ③ Some requirements in this section can be met with courses that also fulfill Bacc Core requirements (Section A); courses (below) that can double count are indicated with the following superscripts WC=Western Culture; SI=Social Processes & Inst; G=Cont Global Issues; S=Science, Tech & Society; DPD=Difference, Power & Disc; WIC=Writing Intensive Course ④ Courses may have prereqs you should complete first; enforced prereqs may require instructor permission to register. ⑤ A grade of C- or better is required for upper-division courses used to meet major requirements.

**1. Natural Environmental Systems (12-16 Credits) – Choose one course for each requirement**

- ( ) Atmosphere \_\_\_\_\_ 3-4 ATS 201 (formerly 210) or GEO/GEOG 323<sup>WIC</sup>
- ( ) Biosphere \_\_\_\_\_ 3 BI 370
- ( ) Geosphere † \_\_\_\_\_ 3-4 CSS 205, GEO 221 , SOIL 395<sup>S</sup>
- ( ) Hydrosphere \_\_\_\_\_ 3-5 FW 456, GEO/SOIL 335<sup>S</sup>, GEO 487, or OC 201

**2. Humans and the Environment (15-19 Credits) – Choose one course for each requirement**

- ( ) Economics † \_\_\_\_\_ 3-4 AEC 250<sup>SI</sup>, ECON 201<sup>SI</sup>, ECON 202<sup>SI</sup>
- ( ) Ethics and Environmental Ethics \_\_\_\_\_ 3-4 ANTH 481<sup>S</sup>, BI/FES 435<sup>S</sup>, CH 374<sup>S</sup>, FES/FW/SOC 485<sup>S</sup>, FW 340<sup>DPD</sup>, GEO 309<sup>DPD</sup>, PHL 440, PHL 443<sup>G</sup>, SOC 456<sup>S</sup>, SOC 480<sup>G</sup>, SOC 481<sup>S</sup> WGSS 440<sup>S</sup>
- ( ) Human Environment \_\_\_\_\_ 3 AG 301<sup>DPD</sup>, ATS 320<sup>S</sup>, BI 348<sup>S</sup>, BI/Z 349<sup>G</sup>, ENSC 479<sup>WIC,S</sup>, FW 325<sup>G</sup>, FW/HSTS 470<sup>S</sup>, GEO/GEOG 300<sup>G,S</sup>, GEO 308<sup>G</sup>, HST 481<sup>S</sup>
- ( ) Environmental Law and Policy \_\_\_\_\_ 3-4 AEC 253<sup>WC</sup>, AEC 351<sup>G</sup>, AEC 352<sup>S</sup>, AEC 432, FOR 462, FW 415, PS 475, PS 476<sup>S</sup>, PS 477, SOC 360<sup>DPD</sup>, WGSS 440<sup>S</sup>
- ( ) Environmental Management \_\_\_\_\_ 3-4 FES/HORT 350, FES 352, FES 355, FES 365<sup>G</sup>, FES/FW 445, FOR 346, FOR 446, FW 251, FW 323, FW 326, FW 435<sup>WIC</sup>, FW 479, GEO 306<sup>S</sup>, GEO 423, GEO 424, GEO 425, NR 455, RNG 341, RNG 355, RNG 421, RNG 455, RNG 490

**D. SPECIALIZATION AREA (≥27 credits) – develop depth in one area of environmental sciences**

① NO S/U grades; ② Courses taken in the specialization cannot double count with Section C above; ③ If you are interested in completing more than one specialization, contact your advisor to learn more about double counting policies between these; ④ For a list of specializations, go to: <http://ceoas.oregonstate.edu/envsci/specializations/>; ⑤ To declare your specialization, contact your advisor.

- ( ) **Specialization** (≥ 27 credits) \_\_\_\_\_

**E. EXPERIENTIAL LEARNING (≥ 3 credits) – gain hands on experience in environmental sciences**

① NO S/U grades; ② Choose a minimum of one course; may complete others for additional experience; ③ For ENSC 410 internship: 1 credit = 30 hours of work. You must obtain approval from your advisor in order to register for credits. <http://ceoas.oregonstate.edu/internships/undergraduate/>

- ( ) ENSC 410 \_\_\_\_\_ 1-12 ENSC Internship – 3 credits meets requirement/12 max. may be earned (see notes above)
- ( ) BOT 440 \_\_\_\_\_ 4 Field methods – learn skills in describing & experimenting on vegetation in your local area
- ( ) FW 255 \_\_\_\_\_ 3 Field methods – learn skills in field sampling of fish and wildlife
- ( ) GEO 365 \_\_\_\_\_ 4 Lab based – learn practical skills in Geographic Information Systems (GIS)
- ( ) GEO 465 \_\_\_\_\_ 4 Lecture/ lab-based – learn theory, concepts, and applications of GIS
- ( ) Other \_\_\_\_\_ 3-4 Must be approved by advisor

**Graduation Requirements - Bachelor of Science:**

① Ideally, these are met concurrent with Major requirements, <http://catalog.oregonstate.edu/ChapterDetail.aspx?key=6#Section53>.  
 ② To avoid problems with the academic residency requirement, transfer courses should be completed early in your program.

- ( ) 180 minimum total credits
- ( ) 60 minimum upper division credits (300 level or above)
- ( ) 45 minimum out of the last 75 credits must be taken through OSU, and 15 of the 45 must be upper division. (AR 25f, Academic Residency)
- (X) 36 minimum credits must be taken in the major of which 24 must be upper division
- ( ) 2.00 minimum cumulative OSU GPA
- ( ) 2.00 minimum GPA in major and minor
- ( ) Foreign Language (admissions requirement): 2 yrs. of high school or two terms of college level courses in the same language; students who graduated from high school before 1997 are exempt from this requirement

**NOTE: If there is an online course you would like to use that is not on this checklist, in the CAP workbook, or in MyDegrees – contact your advisor for approval. If approved, an ‘exception’ will need to be entered in MyDegrees so the course will apply correctly to the requirement area when you enroll.**

**COURSE DESCRIPTIONS for ENSC Core - Section C of ENSC curriculum checklist**

<b>COURSE</b>	<b>CR</b>	<b>COURSE NAME</b>	<b>PREREQUISITE</b>
<b>ANTH 481</b>	3	NATURAL RESOURCES AND COMMUNITY VALUES	Other prereqs: 3 credits of social science. (SOC 204, e.g.)
<b>AEC 250</b>	3	INTRODUCTION TO ENVIRONMENTAL ECONOMICS AND POLICY	
<b>AEC 253</b>	4	ENVIRONMENTAL LAW, POLICY, AND ECONOMICS	
<b>AEC 351</b>	3	NATURAL RESOURCE ECONOMICS AND POLICY	Enforced Prereqs: AREC 250 or ECON 201H; Other Prereqs: MTH 111
<b>AEC 352</b>	3	ENVIRONMENTAL ECONOMICS AND POLICY	Other Prereqs: ECON 201
<b>AEC 432</b>	4	ENVIRONMENTAL LAW	Other Prereqs: Junior standing
<b>ATS 210</b>	3	INTRODUCTION TO THE ATMOSPHERIC SCIENCES	Other Prereqs: College algebra (MTH 111) and elementary functions (MTH 112)
<b>ATS 320</b>	3	MAN'S IMPACT ON CLIMATE	
<b>BI 348</b>	3	HUMAN ECOLOGY	
<b>BI 349</b>	3	BIODIVERSITY: CAUSES, CONSEQUENCES AND CONSERVATION	
<b>BI 370</b>	3	ECOLOGY	Enforced Prereqs: BI 211 and BI 212 and BI 213; or, an approved equivalent.
<b>BI 435</b>	3	GENES AND CHEMICALS IN AGRICULTURE: VALUE AND RISK	Other Prereqs: One quarter each of biology and chemistry helpful but not essential.
<b>CH 374</b>	3	TECHNOLOGY, ENERGY, AND RISK	Other Prereqs: Completion of baccalaureate core in physical science.
<b>CSS 205</b>	4	SOIL SCIENCE	
<b>ECON 201</b>	4	INTRODUCTION TO MICROECONOMICS	Other Prereqs: MTH 111 or equivalent is recommended.
<b>ECON 352</b>	3	ENVIRONMENTAL ECONOMICS AND POLICY	Other Prereqs: ECON 201
<b>ENSC 479</b>	3	ENVIRONMENTAL CASE STUDIES	Other Prereqs: One year of college biology or chemistry, and junior standing required.
<b>FES 350</b>	3	URBAN FORESTRY	Other Prereqs: Foundational forestry and horticulture courses are recommended
<b>FES 352</b>	3	WILDERNESS MANAGEMENT	
<b>FES 355</b>	3	MANAGEMENT FOR MULTIPLE RESOURCE VALUES	
<b>FES 365</b>	3	ISSUES IN NATURAL RESOURCES CONSERVATION	
<b>FES 445</b>	4	ECOLOGICAL RESTORATION	Other Prereqs: BI 370 or instructor approval required.
<b>FOR 346</b>	3	TOPICS IN WILDLAND FIRE	Course work in forest biology or ecology (e.g., (FOR 240 or FES 240 or FES 341) or equivalent.
<b>FOR 446</b>	3	WILDLAND FIRE ECOLOGY	Other Prereqs: Course work in ecology and natural resource management.
<b>FS 492</b>	3	ECOSYSTEM SERVICES ECOLOGY, SOCIOLOGY, POLICY	Other Prereqs: Senior standing.
<b>FW 251</b>	3	PRINCIPLES OF FISH AND WILDLIFE CONSERVATION	

**COURSE DESCRIPTIONS for ENSC Core - Section C of ENSC curriculum checklist**

<b>COURSE</b>	<b>CR</b>	<b>COURSE NAME</b>	<b>PREREQUISITE</b>
<b>FW 323</b>	3	MANAGEMENT PRINCIPLES OF PACIFIC SALMON IN THE NW	
<b>FW 325</b>	3	GLOBAL CRISES IN RESOURCE ECOLOGY	
<b>FW 326</b>	3	INTEGRATED WATERSHED MANAGEMENT	Other Prereqs: FW 251
<b>FW 340</b>	3	MULTICULTURAL PERSPECTIVES IN NATURAL RESOURCES	
<b>FW 346</b>	3	TOPICS IN WILDLAND FIRE	Other Prereqs: Course work in forest biology or ecology (e.g. FOR 240, FOR 341) or equivalent.
<b>FW 435</b>	3	WILDLIFE IN AGRICULTURAL ECOSYSTEMS	Other Prereqs: BI 370 and FW 251.
<b>FW 462</b>	3	ECOSYSTEM SERVICES	Other Prereqs: BI 370
<b>FW 479</b>	3	WETLANDS AND RIPARIAN ECOLOGY	Other Prereqs: BI 370 or BI 371
<b>GEO 221</b>	4	ENVIRONMENTAL GEOLOGY	
<b>GEO 300</b>	3	SUSTAINABILITY FOR THE COMMON GOOD	Other Prereqs: Upper-division standing.
<b>GEO 306</b>	3	MINERALS, ENERGY, WATER AND THE ENVIRONMENT	
<b>GEO 308</b>	3	GLOBAL CHANGE AND EARTH SCIENCES	
<b>GEO 309</b>	3	ENVIRONMENTAL JUSTICE	Enforced Prereqs: WR 121. Other Prereqs: sophomore standing.
<b>GEO 323</b>	4	CLIMATOLOGY	GEO 101 and <i>GEO 202</i>
<b>GEO 335</b>	3	INTRODUCTION TO WATER SCIENCE AND POLICY	
<b>GEO 352</b>	4	OREGON: GEOLOGY, PLACE, AND LIFE ON THE RING OF FIRE	Other Prereqs: Introductory science course recommended
<b>GEO 424</b>	3	INTERNATIONAL WATER RESOURCES MANAGEMENT	Other Prereqs: 9 credits of upper-division geography and any course dealing with the hydrologic cycle.
<b>GEO 425</b>	3	WATER RESOURCES MANAGEMENT IN THE UNITED STATES	Other Prereqs: 9 credits of upper-division geography and any course dealing with the hydrologic cycle.
<b>GEO 487</b>	4	HYDROGEOLOGY	Enforced Prereqs: MTH 252. Other Prereqs: <i>GEO 202</i>
<b>HST 481</b>	4	ENVIRONMENTAL HISTORY OF THE UNITED STATES	Other Prereqs: Upper-division standing. HST 201, HST 202, HST 203 are recommended.
<b>HSTS 419</b>	4	STUDIES IN SCIENTIFIC CONTROVERSY: METHODS AND PRACTICES	
<b>NR 455</b>	4	NATURAL RESOURCE DECISION MAKING	Other Prereqs: Senior standing.
<b>OC 201</b>	4	OCEANOGRAPHY	
<b>PHL 440</b>	3	ENVIRONMENTAL ETHICS	Other Prereqs: 6 credits of philosophy and sophomore standing.
<b>PHL 443</b>	3	WORLD VIEWS AND ENVIRONMENTAL VALUES	Other Prereqs: One introductory-level science course and sophomore standing.

**COURSE DESCRIPTIONS for ENSC Core - Section C of ENSC curriculum checklist**

<b>COURSE</b>	<b>CR</b>	<b>COURSE NAME</b>	<b>PREREQUISITE</b>
<b>PS 475</b>	4	ENVIRONMENTAL POLITICS AND POLICY	Other Prereqs: PS 201 or instructor approval required.
<b>PS 476</b>	4	SCIENCE AND POLITICS	Other Prereqs: PS 201 or 6 credits of lower-division courses in political science or instructor approval required.
<b>PS 477</b>	4	INTERNATIONAL ENVIRONMENTAL POLITICS AND POLICY	Other Prereqs: PS 201 or 6 credits of lower-division courses in political science or instructor approval required.
<b>RNG 341</b>	3	RANGELAND ECOLOGY AND MANAGEMENT	
<b>RNG 355</b>	3	DESERT WATERSHED MANAGEMENT	
<b>RNG 455</b>	3	RIPARIAN ECOLOGY AND MANAGEMENT	Enforced Prereqs: RNG 355.
<b>RNG 490</b>	4	RANGELAND MANAGEMENT PLANNING	
<b>SOC 360</b>	4	POPULATION TRENDS AND POLICY	Enforced Prereqs: SOC 204
<b>SOC 456</b>	4	SCIENCE AND TECHNOLOGY IN SOCIAL CONTEXT	Enforced Prereqs: SOC 204
<b>SOC 480</b>	4	ENVIRONMENTAL SOCIOLOGY	Enforced Prereqs: SOC 204
<b>SOC 481</b>	4	SOCIETY AND NATURAL RESOURCES	Enforced Prereqs: SOC 204
<b>SOIL 395</b>	3	WORLD SOIL RESOURCES	Enforced Prereqs: CH 121 or equivalent
<b>WGSS 440</b>	3	WOMEN AND NATURAL RESOURCES	



## Environmental Sciences Undergraduate Program

### The Specializations Areas

The Specialization area is intended to give students a strong sense of academic identity, and to ensure that each student has specialized knowledge of some aspect of environmental sciences that is in line with their academic interests and career goals. Students will typically [declare a specialization](#) once the majority of their Baccalaureate Core, and Basic Science and Math sequences are completed, though it may be declared at any time.

ENSC Ecampus students may choose from one of the following eight specialization areas:



#### **Applied Ecology (AE) option**

<http://ceoas.oregonstate.edu/envsci/specializations/AppliedEcology/>

Solve environmental questions using applied ecological science, including field and geographic methods for collecting and measuring environmental data on ecological change at various scales.



#### **Aquatic Biology (AB) option**

<http://ceoas.oregonstate.edu/envsci/specializations/AquaticBiology/>

Appraise fresh, estuarine, and marine environments while also taking the opportunity for in-depth study of plants, invertebrates, insects, fish, and mammals of aquatic environments.



#### **Conservation, Resources, and Sustainability (CRS) option**

<http://ceoas.oregonstate.edu/envsci/specializations/ConservationResourcesAndSustainability/>

Explore the rich environment-related offerings at OSU through courses organized to emphasize conservation approaches, resource management, and sustainability as science and policy.



#### **Earth Systems (ES) option**

<http://ceoas.oregonstate.edu/envsci/specializations/EarthSystems/>

Deepen and synthesize knowledge of the atmosphere, geology, soils, human-environment interaction, and geographic methods to apply to solving environmental problems.



#### **Environmental Agriculture (EA) option**

<http://ceoas.oregonstate.edu/envsci/specializations/EnvironmentalAgriculture/>

Prepare to produce or promote crops and livestock using environmentally sound methods with a background that includes both solid science and societal issues.



#### **Environmental Policy & Economics (EPE) option**

<http://ceoas.oregonstate.edu/envsci/specializations/EnvironmentalPolicyAndEconomics/>

Address environmental questions from a public policy perspective and learn the use of economics in measuring, analyzing, and modeling environmental issues.



#### **Environmental Water Resources (EWR) option**

<http://ceoas.oregonstate.edu/envsci/specializations/EnvironmentalWaterResources/>

Gain a foundation in the science of water while also examining the application of water policy in different settings.



#### **Geographic Information Science (GIS) certificate**

<http://catalog.oregonstate.edu/MajorDetail.aspx?major=C540&college=24>

Analyze satellite images, create maps, and illustrate alternative scenarios for environmental science and management.

\*The [Alternative Energy](#) option could be done online if two core courses or approved substitutes were taken locally and transferred. Students may also propose the use of an [online minor](#) as their specialization area (e.g. [Fisheries and Wildlife minor](#)).

# Learning Goals for Graduates of Oregon State University

Learning Goal	Outcomes
1. <b>Competency and Knowledge in Multiple Fields</b>	As an OSU graduate, you will show a depth of knowledge in one or more majors as it relates to its history, problems, strategic thinking processes and ways of knowing, and vocabulary. You will also show a breadth of knowledge across the disciplines, which include the humanities and arts, science, social science and mathematics, from both technical and critical orientations
2. <b>Critical Thinking</b>	As an OSU graduate, you will evaluate and synthesize information from multiple sources and perspectives to make informed decisions and solve problems; you will exhibit intellectual curiosity, including the disposition and ability to engage in evidence-based reasoning and critical thinking.
3. <b>Pluralism and Cultural Legacies</b>	As an OSU graduate, you will acquire knowledge and appreciation of the diversity of human cultural, historical and social experiences, and be able to reflect on how your individual life experience relates to the complex nature of human conditions in other places and times.
4. <b>Collaboration</b>	As an OSU graduate, you will develop the ability to be a positive contributor to situations requiring shared responsibility toward achieving a common goal.
5. <b>Social Responsibility and Sustainability</b>	As an OSU graduate, you will develop the capacity to construct an engaged, contributing life, and to engage in actions that reflect an understanding of the values of service, citizenship, and social responsibility, and demonstrate global competence by understanding the interdependent nature of local and global communities.
6. <b>Communication</b>	As an OSU graduate, you will be able to present and evaluate information, as well as to devise and exchange ideas clearly and effectively so that you can communicate with diverse audiences in a variety of situations.
7. <b>Self-Awareness and Life-Long Learning</b>	As an OSU graduate, you will develop awareness of and appreciation for your personal strengths, values, and challenges, and you will cultivate the ability to use that knowledge to guide your future learning and development.

Approved by Faculty Senate: 6/10/2010

<http://oregonstate.edu/leadership/provost/initiatives/learning-goals-for-graduates>

## Advising is a Shared Responsibility

### Student Responsibility

- **Understand** and **accept** that you are ultimately responsible for your education and your own decisions.
- **Be prepared** when you come to advising sessions; **be active** in your advising session, and ask questions when you have them.
- **Understand** and **communicate** personal values, abilities and goals.
- **Provide** accurate and truthful information when being advised.
- **Initiate** a purposeful relationship with your advisor and make appointments when necessary or when in need of assistance.
- **Keep** your local address and phone number **up to date** in Student Online Services, and utilize and regularly check your ONID account.
- **Call** to cancel appointments that cannot be kept.
- **Learn and understand** OSU's policies, procedures and requirements as they relate to your academic success and/or degree completion.
- **Follow through** on plans of action identified during advising session.

### Advisor Responsibility

- **Develop** a purposeful relationship with and be an advocate for their advisees.
- **Inform** students of the nature of the advisor/advisee relationship.
- **Provide** timely and accurate educational information.
- **Promote** learning opportunities that will help students define or meet personal goals and plans.
- **Assist** students in preparing a program that is consistent with their abilities and interests.
- **Monitor** progress toward educational/career goals.
- **Interpret** and **provide** rationale for institutional policies, procedures and requirements.
- **Inform** inquiring students of campus resources and special services available to them.
- **Refer** students to those resources that can enhance or supplement their academic experience.

*Adopted by the OSU Council of Head Advisors - Spring 2006*

## Email Etiquette

For many of us at OSU – students and staff alike – email is a tool that we use to perform our jobs more efficiently. It is a tool that has made communication easier – when used properly. When misused, email can cause more problems than it solves. Here are few tips we recommend you adopt!

- **Use a professional email address.**  
OSU student, faculty, and staff email addresses are considered professional. A personal email address may be filtered to Junk Mail (ex. Fuzzy\_Bunny@ yahoo.com).
- **Be sure to include a signature.**  
Include your full name, phone number, and email address and Student ID in your signature. This will enable us to access your student records quickly and reduce confusion.
- **Write the subject of the email in the subject line.**  
Writing "Hey", "Hi", or "Important info" in a subject line may be passed over as spam.
- **Be concise.**  
State your point as quickly as possible. Be sure to include all the important facts, but be brief. Include any relevant links or attachments to eliminate possible confusion.
- **Be sure to include due dates, deadlines or level of urgency.**  
Your advisor receives many emails every day and must make decisions about prioritizing responses. Be sure to include any relevant due dates or deadlines, or indicate a general level of urgency (low to high) to assist in this process. You should not assume that you will receive an immediate response.
- **Do not write in all capital letters.**  
It is generally interpreted as SHOUTING.
- **Never send an email when angry.**  
Before sending a message, consider whether you would say what you have written to the person's face. The detached nature of email will sometimes embolden people to say things they would never say in person. Remember, email that you send can be forwarded and there are no "take backs".
- **Do not assume that email you send to someone is private.**  
People forward messages all the time. Email containing confidential student information may be shared with authorized university faculty and staff.
- **Use spell check.**  
Pay attention to grammar and spelling. No one wants to guess what is being said, they want it spelled out for them (correctly). While email is less formal than letters, people will form an opinion of you based on how you write.



## Environmental Sciences Undergraduate Program

### Common Questions and Answers

- **Ask Ecampus**

Get answers to your questions or online assistance regarding Ecampus programs and services with the Knowledge Base -- designed for 24/7 quality service, <http://ecampus.oregonstate.edu/ask-ecampus/>

- **How do I identify my advisor?**

The person who conducts your orientation may or may not be assigned to you as your primary advisor. [Dawn Marie Gaid](#) will be your initial point of contact until your ENSC program orientation has been scheduled. If you have an urgent need to speak with an advisor, contact [CEOAS Student Services](#).

- **When should I meet with my advisor?**

You should [meet with your advisor](#) for a phone advising appointment as often as you feel is necessary -- especially if you are having academic difficulties, or getting close to graduation. It is mandatory, however, to meet annually to discuss course plans for the coming year and to obtain your registration PIN. You will be notified via email spring term when annual advising will begin for early fall registration.

- **How do I make an appointment with my advisor?**

Newly admitted student - <http://ceoas.oregonstate.edu/envsci/ecampus/current/new/>  
Current student - <http://ceoas.oregonstate.edu/envsci/ecampus/current/advising/>

- **What if my advisor is not available and I need immediate assistance?**

If you have an urgent issue and need to talk to an advisor, contact the [CEOAS Student Services Office](#). Alternatively, you may contact [Ecampus Student Services](#).

- **Whose responsibility is it to keep track of my progress at OSU?**

It is primarily your responsibility. We highly recommend keeping an updated copy of the [curriculum worksheet](#), which can be used to audit your *MyDegrees* electronic checklist. Regularly review this to ensure an accurate record of progress toward graduation. Contact your advisor if there are errors.

- **Are there ways to avoid Baccalaureate Core requirements?**

No. The Baccalaureate Core is an integral part of your education – all undergraduate majors are expected to complete these requirements, unless you are a post baccalaureate student. Many courses can be used to satisfy these requirements, including some that double count with the major.

- **Do I really need to meet all of the prerequisite requirements listed for a course?**

Prerequisites are intended to help you be successful in the course they are required for. If you feel you have adequate background knowledge, you may be able to enroll without them. For [enforced](#) prerequisites, if you receive a registration error, you may need to request a course override from the instructor. Errors often result when a prerequisite transfer course is not articulated as a direct equivalent to an OSU course (e.g. MTH LDT rather than MTH 111). This can be a confusing, so ask your advisor if you need help identifying prerequisite courses that could cause registration issues.

- **May I take courses in my major on an S/U or P/N grading basis?**

No. The only exception is internship credit (ENSC 410), which is automatically graded "P/N". However, there may be circumstances where it is the best course of action if academic standing is an issue, which is best discussed with an advisor.

- **Can I count the same course towards both the ENSC Core Curriculum and my specialization?**

No. You must choose unique coursework between the ENSC core and your specialization. If an elective is listed in both sections, you must choose one requirement area for the course to apply.

# Environmental Sciences Undergraduate Program

## Contacts and Connections



### CEOAS Student Services Office

104 Wilkinson Hall, Corvallis, OR 97331-2904

Phone 541-737-1201 • Fax 541-737-1200

Email [ceoas.undergrad@oregonstate.edu](mailto:ceoas.undergrad@oregonstate.edu)

Web [ceoas.oregonstate.edu/envsci/](http://ceoas.oregonstate.edu/envsci/)

Map <http://bit.ly/osu-map-ceoas-facilities>

### Director

**Larry Becker, PhD**

238 Wilkinson Hall

541-737-9504

[beckerla@science.oregonstate.edu](mailto:beckerla@science.oregonstate.edu)

### Advising

<http://ceoas.oregonstate.edu/academics/advising/>

**Mary Chiunard**

*CEOAS Head Advisor*

541-737-3715

[mary.chuinard@oregonstate.edu](mailto:mary.chuinard@oregonstate.edu)

**Dawn Marie Gaid, MPP**

*ENSC Ecampus Lead*

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**Stephany Johnson, EdM**

*ENSC On campus Lead*

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**Erin Lieuallen**

*ENSC On Campus First Year Lead*

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**Kate Ullman, MSAAE**

*Earth Sciences Lead*

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### Experiential Learning

**Jessica Cardinal-Lanier**

*Experiential Learning Coordinator*

541-737-1274

[jessica.cardinal-lanier@oregonstate.edu](mailto:jessica.cardinal-lanier@oregonstate.edu)

### Student Services

**Academic Success**

[ecampus.oregonstate.edu/services/student-services/success/](http://ecampus.oregonstate.edu/services/student-services/success/)

**Admissions**

541-737-4411

[oregonstate.edu/admissions/](http://oregonstate.edu/admissions/)

**Business Affairs for Students**

[oregonstate.edu/dept/fa/business-affairs/student](http://oregonstate.edu/dept/fa/business-affairs/student)

**Career Services**

[ecampus.oregonstate.edu/services/student-services/career\\_services.htm](http://ecampus.oregonstate.edu/services/student-services/career_services.htm)

**CEOAS Administration**

541-737-3504

<http://ceoas.oregonstate.edu/about/>

**Computer/Tech Support**

[oregonstate.edu/helpdocs/](http://oregonstate.edu/helpdocs/)

**Degree Partnership Program**

541-737-0579

[oregonstate.edu/partnerships/students](http://oregonstate.edu/partnerships/students)

**Disability Access Services**

541-737-4098

[ds.oregonstate.edu/ecampus](http://ds.oregonstate.edu/ecampus)

**Ecampus Student Services**

541-737-4166 or 800-667-1465

[ecampus.oregonstate.edu/students/](http://ecampus.oregonstate.edu/students/)

**Financial Aid & Scholarships**

541-737-2241

[financialaid.oregonstate.edu](http://financialaid.oregonstate.edu)

**MyOSU (Online Services)**

<http://myosu.oregonstate.edu/>

**Registrar**

541-737-4331

[registrar.oregonstate.edu](http://registrar.oregonstate.edu)

**Veterans / Military Services**

541-737-8748

[studentlife.oregonstate.edu/veterans](http://studentlife.oregonstate.edu/veterans)

### Connections

**Buddy Up**

A free social networking app, sponsored by OSU, that lets you browse and connect with your classmates, chat informally, and find people with whom you'd like to study.

<http://www.buddyup.org/>

**ensc-distance Listserv**

Stay informed about important deadlines, program information, and available opportunities. You will automatically be subscribed following your program orientation.

**eNews - Ecampus**

Short, timely articles and tips to keep you connected and help you succeed as a distance student. View online or subscribe.

[ecampus.oregonstate.edu/enews/](http://ecampus.oregonstate.edu/enews/)

**eNews – OSU Today**

Stay current with the latest OSU news, research, events and more.

<http://oregonstate.edu/osutoday/>

**Facebook - Ecampus**

[facebook.com/osuecampus](https://facebook.com/osuecampus)

**Facebook - ENSC**

[facebook.com/environmental.sciences.osu](https://facebook.com/environmental.sciences.osu)