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Departments  
and Programs  
in the College of Earth,  
Ocean, and Atmospheric  
Sciences

Environmental Sciences

Earth Sciences

Geology Option

Geography Option

Earth Systems Option

Geographic Information  
Science Certificate

# College of Earth, Ocean, and Atmospheric Sciences

## New Undergraduate STUDENT HANDBOOK 2012-2013



### Administration

Mark Abbott, Dean  
Jack Barth, Associate Dean  
Anita Grunder, Associate Dean  
Cori Hall, Head Advisor

Earth Sciences  
College of Earth, Ocean, and  
Atmospheric Sciences  
Oregon State University  
102 Wilkinson Hall  
Corvallis, Oregon 97331-5506  
phone: 541-737-2404  
fax: 541-737-1200

E-Mail: [geo-info@geo.oregonstate.edu](mailto:geo-info@geo.oregonstate.edu)  
Web: <http://ceoas.oregonstate.edu>

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

Major: \_\_\_\_\_

Advisor: \_\_\_\_\_

Office location: \_\_\_\_\_

**OSU**  
Oregon State  
UNIVERSITY

# CEOAS Undergraduate Programs of Study

(CEOAS College Code = 24)

**\*\*Please read this important message if you are a new student majoring in Earth Sciences or Environmental Sciences\*\***

The new College of Earth Ocean and Atmospheric Sciences (CEOAS) has been formed, and was approved this past fall. CEOAS houses undergraduate majors in Earth Sciences & Environmental Sciences.

For general questions and for Geosciences (GEO) course override requests, go to the:

**CEOAS Student Services Office**

**104 Wilkinson Hall**

**541-737-1201**

For students declaring majors, minors, options, or certificates & having forms requiring a head advisor signature in these majors, college level advising functions have moved and are now located in the:

**CEOAS Undergraduate Advising Office**

**102 Wilkinson Hall**

**541-737-2404**

Academic Advisors:

Dawn Marie Gaid	Environmental Sciences (Distance)	dawn.gaid@oregonstate.edu
Cori Hall	Environmental Sciences (Corvallis)	cori.hall@oregonstate.edu
Erin Lieuallen	Earth Sciences (Corvallis) & Environmental Sciences (Distance)	erin.lieuallen@oregonstate.edu
Stacy Moore	Environmental Sciences (Distance)	stacy.more@oregonstate.edu
Dave Dickson	Environmental Sciences (Corvallis), Internship Coordinator	

As of Winter Term 2012, the following programs of study are now housed in the College of Earth, Ocean, and Atmospheric Sciences (College Code = 24)

## MAJORS (in bold type) and OPTIONS

	<i>Major/option code</i>		<i>Major/option code</i>
<b>Environmental Sciences (BS)</b>	<b>657</b>	<b>Earth Science (BS)</b>	<b>834</b>
<i>(*All students required to declare a specialization, which may be either an option, minor, or certificate.)</i>			
<b>Options:</b>		<b>Options (Required):</b>	
Applied Ecology and Resource Management (E-Campus only)	169	Earth Systems	264
Aquatic Biology	501	Geography	263
Environmental Chemistry for Environmental Sciences	490	Geology	262
Environmental Conservation & Sustainability	577	<b>Minors</b>	
Environmental Policy	527	Environmental Geosciences	556
Land-Air Interaction	486	Environmental Sciences	758
Pre-Education for Environmental Sciences	507	Geography	545
Terrestrial Ecosystems	529	Geology	550
Water Science & Resources	353	Oceanography	660
		<b>Certificate</b>	
		Geographic Information Science	C540

# Questions Frequently Asked About Majors and Minors

## What are my options within a major?

For some majors an option is required. For example, you must choose an option if you are an Earth Sciences major. The Earth Sciences options are Geology, Geography, or Earth Systems.

All Environmental Sciences students must choose an area of specialization. These specializations can be an option (see the preceding page for a list of Environmental Sciences options), or an approved minor or certificate. For a list of approved minors and certificates refer to the Environmental Sciences website ([http://envsci.science.oregonstate.edu/undergrad/on\\_campus/current/specialization](http://envsci.science.oregonstate.edu/undergrad/on_campus/current/specialization)).

For a list of available options and codes, see the preceding page.

## How do I prepare to be a teacher?

Oregon State offers a fifth year Master's level Professional Teacher Education Program and a double degree (second bachelors degree) with teacher licensure through the College of Education. Students interested in teaching science or mathematics should select an academic major in the area they wish to teach. Students interested in teaching geosciences may consider teaching at the middle-school level (grades 6–8). Earth Sciences content is taught at the middle school level in K–12 schools across Oregon

Admission to Teacher Education Programs is competitive. Admission requirements include verified, successful experience working with children or youth; passing scores on certain standardized exams; subject area competence; and a 3.0 grade point average.

## Can I major in Atmospheric Sciences or Oceanography?

Atmospheric Sciences and Oceanography are graduate programs. However, undergraduates may take an oceanography minor. Undergraduate courses in atmospheric sciences are available to students in the physical and environmental sciences.

To prepare for graduate school in atmospheric sciences or oceanography, a Bachelors Degree in any basic science (physics, biology, chemistry, mathematics, or Earth Sciences) or engineering is required.

## Are minors required?

A minor is at least 27 credits of designated courses outside of the major, at least 12 credits of which are upper division courses. Minors are not required for most CEOAS students. If you want to have a minor, check with the department offering the minor to get specific requirements and declare the minor in the appropriate college. Also inform your regular advisor of your intent.

## How do I change majors?

Confer with the advisor for the newly selected major then complete the "Change of Undergraduate Academic Program" form. This is available online ([http://oregonstate.edu/registrar/sites/default/files/forms/ChangeofMajorUndergraduates\\_0.pdf](http://oregonstate.edu/registrar/sites/default/files/forms/ChangeofMajorUndergraduates_0.pdf)), in the CEOAS undergraduate advising office (WLKN 102), or in the College office for the major to which you are changing. The completed form must be turned in to the Head Advising Office for processing before being forwarded to the Registrar (located in Kerr Administration Building).

## How many credits are needed for two majors?

### *Double Degree*

Two separate degrees require a minimum of 212 credit hours, e.g., B.S. in Earth Sciences and B.S. in Chemistry.

### *Dual Major*

A single degree that includes two majors can be obtained with a minimum of 180 credits, e.g., a B.S. in Earth Sciences and Chemistry.

## Is foreign language required?

Foreign language is not required in CEOAS unless you are doing a B.A. or the International Degree. However, if you graduated from high school in 1997 or later, OSU requires two years of high school foreign language for admission. If you did not meet this requirement upon admission, you will be required to have two (2) college terms of the same foreign language to graduate (or earn a satisfactory score on a proficiency exam). Two terms of sign language can count as a foreign language for this purpose.

## How can I obtain the International Degree?

This degree can be obtained only in conjunction with another undergraduate degree. For admission, you must have completed 32 credits with at least a 2.75 GPA and foreign language proficiency equivalent to that attained at the end of the 2nd year. Advanced foreign language proficiency, 32 additional credits in Bacc Core courses, at least ten weeks abroad, and a senior project are required for completion. For more information or to apply, contact the International Defree and Education Abroad (IDEA) Office, Heckart Lodge, 541-737-3006.

# Advising Tips

## Math Placement

All new students without college level equivalent transfer coursework in mathematics are placed in the mathematics course indicated by the Math Placement Test administered during START. See the Registration Information Handbook for more information on math placement .

## Chemistry Placement

There are three first-year general chemistry sequences:

**CH 121, 122, 123** for students who have not had high school chemistry or who feel that their background is weak (co-requisite for CH 121 is MTH 95 or 103 or higher); **CH 130** is an introduction to organic and biochemistry for pre-nursing and other students who do not intend to go on in Chemistry and replaces CH 123.

**CH 231/261, 232/262, 233/263** for students who have taken high school chemistry (co-requisite for CH 221/261 is MTH 111 or higher).

**CH 201, 202** for engineering students.

## Alpha Sectioning—WR 121 and COMM 111, 114, & 218

To control enrollment, WR 121 and COMM 111, 114 & 218 are alpha sectioned. This means that your last name determines in what term you may register for this class.

Course	Fall Term	Winter Term	Spring Term
WR121	A-G	H-N	O-Z
COMM	H-N	O-Z	A-G

## Can I test out of HHS 231?

Yes. See: <http://health.oregonstate.edu/hhs-231>

## Address Changes

Remember to keep the Registrar informed of your current mailing address so that you will receive important notices. This can be done via the web.

## Registration

The *Schedule of Classes* is published on-line at: <http://catalog.oregonstate.edu>. Late registration fees start on the first day of classes. See *Registration Information Handbook* for last day to add/drop, withdraw or change to/from S/U grading.

## Adding and Dropping\*

Schedule adjustments can be made by web until the term begins. During the first two weeks of classes, you can drop by web. First week adds are by web but second week adds require instructor approval and must be done at the departmental office.

## Withdraw\*

Starting on the eleventh day of class until the end of the seventh week, a student may withdraw from a class using the web registration system. A grade of "W" will appear on the transcript, but does not affect GPA.

\*After making a schedule change (Add/Drop/Withdraw), **be sure to print a copy** of your schedule to make sure the change was processed.

## No show drop (NSHD)

NSHD is a designation given to classes in great demand that allows a department to drop students who are registered but do not attend during the first five days of class. **However, do not assume you have been dropped if you don't attend; follow normal drop procedure.**

## Repeating Courses (AR 20)

If you repeat a course, both grades received in that course will appear on your transcript; however, only the second grade will be computed into your GPA. Credit hours will be counted only once unless the course is a recognized repeatable course such as activity courses, research, seminars, and selected topics. A course may not be repeated on a S/U basis if it was taken previously on a normal grade basis.

## Credit Restrictions

1. Physical Activity Courses (PAC): Maximum of 11 credits.
2. S/U grades: Maximum of 36 credits.
3. Music Performance (MUP): Maximum of 12 credits (except music majors).
4. ALS courses: Maximum of 15 credits.

## CLASS STANDING

0-44 credits..... Freshman  
 45-89 credits..... Sophomore  
 90-134 credits..... Junior  
 2.0 GPA on 135 credits..... Senior  
 Working on a second baccalaureate degree ..... Postbaccalaureate

## GRADING

(For complete explanation, see sections 17, 18, 19 of *Academic Procedures & Regulations in the Registration Information Handbook*.)

1. Most courses are graded A, A-, B+, B, B-, C+, C, C-, D+, D, D-, and F, with F denoting failure.
2. "P/N" Grades - some courses are graded only P (pass) or N (no pass); these earn credit but do not affect your GPA.
3. "S/U" Grades - Satisfactory/Unsatisfactory. Not accepted in the courses for your major or minor.
4. "W" Grade - Withdraw. Withdrawals must be done via the web registration system before the deadline.
5. "I/alternate" Grade - Incomplete. Arranged with instructor. Will convert to alternate grade if not completed in one year or upon graduation.

## ACADEMIC DEFICIENCIES

**Academic Warning** - students with a term GPA below 2.0 will be placed on Academic Warning

**Academic Probation** - students who have completed two or more terms at OSU with an OSU cumulative GPA below 2.0 will be placed on Academic Probation.

**Suspension** - students who are on Academic Probation and have a subsequent term GPA below 2.0 will be placed on Academic Suspension. (See pg. 38 of "*Academic Regulations*" in *Registration Information Handbook*.)

# Graduation Checklist

To earn a Bachelor of Science degree (B.S.) you must complete the following requirements:

**Baccalaureate Core (48 Credits)** - one course in each of the categories listed below.

**SKILLS** (WR 121, Speech, and Math Skills must be completed satisfactorily within the first 45 hours of OSU coursework. Writing II must be completed satisfactorily within the first 90 hours of OSU coursework. Transfer students must complete Writing II and Speech within the first 45 hours of OSU credits.)

- Writing I (3 Credits) = WR 121 with C- or better
- Writing II (3 Credits)
- Speech (3 Credits)
- Mathematics (3 Credits)
- Fitness (3 Credits) = HHS 231 + lab (HHS 241-248) or PAC

**PERSPECTIVES** (No more than 2 from the same department)

- Physical Science with lab (4 Credits)
- Biological Science with lab (4 Credits)
- Choice of physical or biological science (4 Credits)
- Western Culture (3 Credits)
- Cultural Diversity (3 Credits)
- Literature and the Arts (3 Credits)
- Social Processes and Institutions (3 Credits)
- Difference, Power and Discrimination (3 Credits)

**SYNTHESIS** (Must be from different departments)

- Science, Technology and Society (3 Credits)
- Contemporary Global Issues (3 Credits)

## WIC

- Writing Intensive Course (WIC) (3 Credits)

**Major Requirements**—determined by the department

- 36 Credits minimum. At least 24 credits must be upper division. These are minimum credits. Most majors require more.

**Credits**—180 minimum

- 60 upper division (not counting Physical Activity Courses)

**Grade Point Average**

- 2.00 (minimum) on OSU cumulative GPA
- 2.00 minimum GPA in your major and minor.

**Residency**

- A minimum of 45 of the last 75 credits must be completed as OSU courses. At least 15 credits must be upper division in your major. Credits taken by special examination do not count. Approved off-campus degree programs are considered in residence. (See section 25f Academic Regulations and Procedures in the *Registration Information Handbook*.)

Approved Baccalaureate Core courses are listed in General Catalog, the Schedule of Classes and on the web:  
<http://catalog.oregonstate.edu/BCC.aspx>

## Rules governing the Core:

1. No more than two courses from any one department may be used to satisfy the Perspectives category of the core.
2. No single course may be used to satisfy more than one subject area of the core.
3. Both Synthesis courses may not be from the same department.
4. Double degrees or dual majors must take a WIC class in each major.

**NOTE TO TRANSFER STUDENTS: An AAOT degree from an Oregon community college which meets the OUS community college block transfer agreement will satisfy the Skills and Perspectives requirements of the Baccalaureate Core as will the DTA from the state of Washington or the IGETC from California. Up to 124 credits from a 2-year college may be used towards an OSU degree.**

## Application for degree

- Apply online when senior standing is reached (135 credits, 2.00 GPA) or three terms in advance of graduation. Deadline is the end of the second week of the term in which you wish to graduate.

# Advisor / Advisee Responsibilities

The advising effort is one of mutual respect and collaboration between you and your advisor. If the process is to be effective, both you and your advisor must meet certain obligations. With that in mind, here are some key responsibilities for your relationship.

## As an advisee, you should:

- **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 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 sessions.

## Advisors should:

- **Develop a purposeful relationship with and be an advocate for their advisees.**
- Inform student of the nature of the advisor/advisee relationship.
- Assist student in deciding and developing expressed educational, career, and life plans.
- 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 or personal experience.

Developed by the Council of Head Advisors - Winter 2006

## When to See Your Advisor

Prior to registration, you should confer with your academic advisor to assure that you select the appropriate courses. This is **required** prior to registration for Fall Term. It is recommended that you make an appointment well in advance of the date you plan to register. Your priority registration date is posted to your student online services account. If you don't know who your advisor is, call the CEOAS Undergraduate Advising Office at 541-737-2404.

## Advising Tips:

1. Obtain a checklist of required courses from your advisor or department.
2. Keep your checklist, transcripts, and other pertinent documents in a personal "advising file."
3. Using the checklist as a guide, write down the courses you are considering for the next term and in the future. Be sure to check the Schedule of Classes to find out which terms your required classes are offered. Also write down any questions you may have and bring them with you to your meeting with your advisor.
4. If your advisor can't answer your questions or you are not comfortable with the answer, check with the head advisor or the CEOAS Undergraduate advising office.

## PIN Numbers

All new students must meet with an advisor to get a registration PIN. Registration PINs for CEOAS students change during the Spring Term for Fall Term registration. You must see your advisor during Spring term to get your Fall Registration PIN.

## ONID E-mail account:

Your ONID account is your official Oregon State e-mail address. Some advisors will contact students only through their ONID account. Remember to check your ONID account often!



## Assistance with Academics

# Need Help ??

**ACADEMIC SUCCESS CENTER: 102 Waldo, 541-737-2272** <http://success.oregonstate.edu>

Coordinates tutoring, offers academic success classes, advises undecided students.

**COLLABORATIVE LEARNING CENTER: Valley Library** <http://osulibrary.oregonstate.edu/clc>

Assistance in biology, chemistry, physics, math and writing.

**COMPUTER LABS:** Check individual facility for hours (<http://scf.oregonstate.edu>). Open to registered OSU students. Equipment includes Macs, PCs, laser printers, network access; color scanners; CD-Recorder; Zip drives and a wide variety of software.

- **Information Commons** - Valley Library, 541-737-3331
- **Main Computer Student Facility** - Milne Computer Center, basement, 541-737-3384
- **College of Business** - 120 Bexell, 541-737-3327

**COUNSELING AND PSYCHOLOGICAL SERVICES: Snell Hall, 5th Floor, 541-737-2131**

Advice to students who are undecided about a major or career and personal counseling.

**DISABILITY ACCESS SERVICES: KAd 200, 541-737-4098**

Facilitates access to University programs and services through accommodations, education, consultation, and advocacy.

**EDUCATIONAL OPPORTUNITIES (EOP): 336 Waldo, 541-737-3628**

Assistance for students who have been educationally disadvantaged.

**MATH LEARNING CENTER: 108 Kidder, 541-737-4946**

Help with lower-division math courses on a drop-in basis. Call for hours.

**ORIENTATION AND CAREER COURSES:**

ALS 199 (2 credits) U Engage New Student Orientation

ALS 114 (2 credits) Career Decision Making

ALS 116 (2 credits) Academic Success

**WRITING CENTER: 123 Waldo, 541-737-5640**

Individual assistance to improve writing skills.

## Miscellaneous Services

**CAMPUS ALERT SYSTEM:** <http://oregonstate.edu/main/alerts> to sign up for campus alert.

**CAREER SERVICES:** 008 Kerr Administrative Services, 541-737-4085

Assistance with job search, cooperative internships, workshops on writing resumes, interviewing.

**CHILD CARE CENTER:** 11th and Adams, 541-737-4641

Full and part-day developmental child care for infants to age six. Some financial subsidy available.

**LOST and FOUND:** Aramark, Servicemaster, 621 SW 17th, 541-737-2157

**OSU EXTENDED CAMPUS (Includes Summer School):** 4943 Valley Library, 541-737-2676 or 1-800-235-6559

Offers MTH 065, 095 and other courses and workshops. (<http://ecampus.oregonstate.edu>)

**PARKING SERVICES:** Facilities Services, 101 Adams Hall - 606 SW 15th St., 541-737-2583

Parking permits and information on parking and traffic regulations.

**STUDENT HEALTH SERVICES:** Plageman Bldg, 541-737-9355 (737-WELL)

Outpatient services in general medicine, travel medicine, gynecology, allergy, physical therapy, laboratory, X-ray, pharmacy, health education and nutrition services.

**UNIVERSITY HOUSING AND DINING SERVICES:** 102 Buxton, 541-737-4771

Residence halls, cooperative houses, dining services.

# Directory

## CEOAS

<b>Important Telephone Numbers</b>	<b>Location</b>	<b>Telephone</b> (Area Code 541)
Dean's Office & Administration.....	104 CEOAS Admin Bldg.....	737-3504
Student Services (GEO, ATS, OC course overrides & Restrictions) .....	104 Wilkinson.....	737-1201
Undergraduate Advising for Earth Sciences and for Environmental Sciences .....	102 Wilkinson.....	737-2404

### **Departments and Programs outside of CEOAS** *(for registration restrictions & overrides in to courses)*

Biology .....	3029 Cordley.....	737-2993
Chemistry.....	153 Gilbert .....	737-2081
Mathematics .....	368 Kidder.....	737-4686
Physics.....	301 Weniger .....	737-4631

## Other Campus Resources

Dean of Students Office .....	200 Kerr Admin. ....	737-8748
Financial Aid.....	218 Kerr Admin. ....	737-2241
Intercultural Student Services.....	150 Kerr Admin. ....	737-9034
Asian & Pacific Islander American Student Services .....	150 Kerr Admin. ....	737-9033
CASA Latina/o de OSU .....	150 Kerr Admin. ....	737-9031
LGBT Outreach and Services.....	149 Snell Hall. ....	737-6342
Native American Initiatives .....	150 Kerr Admin. ....	737-4383
Ujima Education Office.....	150 Kerr Admin. ....	737-9032
Women's Center .....	Women's Center. ....	737-1330
International Degree and Education Abroad .....	Heckart Lodge .....	737-3006
Registrar .....	102 Kerr Admin. ....	737-4331
Student Leadership & Involvement.....	MU 103 .....	737-2101
Valley Library .....	General Information .....	737-3331

**EMERGENCY - Fire, Police, Ambulance.....9-911 (on campus)..... 911 (off campus)**

**OSU Police (not emergency).....541-737-3010**

**Campus Operator and Directory Assistance .....**7-1000 (on campus).....**541-737-0123 (off campus)**

## Useful Web Addresses for CEOAS

CEOAS Home:.....	<a href="http://ceoas.oregonstate.edu">http://ceoas.oregonstate.edu</a>
Catalog and Schedule of Classes: .....	<a href="http://catalog.oregonstate.edu">http://catalog.oregonstate.edu</a>
Degree Partnership (Dual Enrollment) .....	<a href="http://oregonstate.edu/partnerships/students">http://oregonstate.edu/partnerships/students</a>
HHS 231 Waiver Exam:.....	<a href="http://health.oregonstate.edu/hhs-231">http://health.oregonstate.edu/hhs-231</a>
Priority Registration Dates: .....	<a href="http://oregonstate.edu/registrar">http://oregonstate.edu/registrar</a>
Registration:.....	<a href="http://oregonstate.edu/main/online-services">http://oregonstate.edu/main/online-services</a>
Library: .....	<a href="http://osulibrary.oregonstate.edu">http://osulibrary.oregonstate.edu</a>
New Student Resources:.....	<a href="http://oregonstate.edu/newstudents">http://oregonstate.edu/newstudents</a>
Advanced Credit:.....	<a href="http://oregonstate.edu/admissions/advanced-credit-opportunities">http://oregonstate.edu/admissions/advanced-credit-opportunities</a>
Transfer Credit: .....	<a href="http://oregonstate.edu/admissions/transfer-credit">http://oregonstate.edu/admissions/transfer-credit</a>