BACHELOR OF SCIENCE (BS) DEGREE WITH A MAJOR IN EARTH, ENVIRONMENTAL AND PLANETARY SCIENCES

Program Learning Outcomes for the BS Degree with a Major in Earth, Environmental and Planetary Sciences

Upon completing the BS degree with a major in Earth, Environmental and Planetary Sciences, students will be able to:

- Demonstrate comprehensive knowledge of how the Earth system operates over geologic and modern timescales.
- Demonstrate the ability to make and record observations in the field, and to analyze and interpret these data in the context of the geologic history.
- 3. Demonstrate effective oral and written communication skills.
- Demonstrate the ability to apply critical thinking and problem-solving skills to evaluate published research in the Earth, Environmental and Planetary sciences.
- Demonstrate an understanding of the scientific method and its application to the study of Earth, Environmental and Planetary sciences

Requirements for the BS Degree with a Major in Earth, Environmental and Planetary Sciences

For general university requirements, see <u>Graduation Requirements</u> (https://ga.rice.edu/undergraduate-students/academic-policies-procedures/graduation-requirements/). Students pursuing the BS degree with a major in Earth, Environmental and Planetary Sciences must complete:

- A minimum of 22-24 courses (68-71 credit hours), depending on course selection, to satisfy major requirements.
- A minimum of 120 credit hours to satisfy degree requirements.
- A minimum of 10-12 courses (30-36 credit hours), depending on course selection, taken at the 300-level or above.
- The requirements for one area of specialization (see below for areas of specialization). The BS degree with a major in Earth, Environmental and Planetary Sciences offers three areas of specialization:
 - · Environmental Earth Science (p. 2), or
 - · Geoscience (p. 2), or
 - Planetary Science (p. 3).

The courses listed below satisfy the requirements for this major. In certain instances, courses not on this official list may be substituted upon approval of the major's academic advisor or, where applicable, the department's Director of Undergraduate Studies. (Course substitutions must be formally applied and entered into Degree Works by the major's Official Certifier (https://registrar.rice.edu/facstaff/degreeworks/officialcertifier/).) Students and their academic advisors should identify and clearly document the courses to be taken.

Summary

Code	Title	Credit
		Hours
	rs Required for the Major in Earth, and Planetary Sciences	68-71
	rs Required for the BS Degree with a Major in ental and Planetary Sciences	120

Degree Requirements

Code	Title	Credit Hours
Core Requirement	ts	
MATH 101	SINGLE VARIABLE CALCULUS I	3
or MATH 105	AP/OTH CREDIT IN CALCULUS I	
MATH 102	SINGLE VARIABLE CALCULUS II	3
or MATH 106	AP/OTH CREDIT IN CALCULUS II	
MATH 211	ORDINARY DIFFERENTIAL EQUATIONS AND LINEAR ALGEBRA	3
CHEM 121	GENERAL CHEMISTRY I	3
or CHEM 111	AP/OTH CREDIT IN GENERAL CHEMISTRY I	
CHEM 123	GENERAL CHEMISTRY LABORATORY I	1
or CHEM 113	AP/OTH CREDIT IN GENERAL CHEMISTRY LAB I	
CHEM 122	GENERAL CHEMISTRY II	3
or CHEM 112	AP/OTH CREDIT IN GENERAL CHEMISTRY II	
CHEM 124	GENERAL CHEMISTRY LABORATORY II	1
or CHEM 114	AP/OTH CREDIT IN GENERAL CHEMISTRY LAB I	I
Select 1 from the fe	ollowing:	4
PHYS 101	MECHANICS (WITH LAB)	
& PHYS 103	and MECHANICS DISCUSSION	
PHYS 111	HONORS MECHANICS (WITH LAB)	
PHYS 141	CONCEPTS IN PHYSICS I	
Select 1 from the fe	ollowing:	4
PHYS 102 & PHYS 104	ELECTRICITY & MAGNETISM (WITH LAB) and ELECTRICITY AND MAGNETISM DISCUSSION	
PHYS 112	HONORS ELECTRICITY & MAGNETISM (WITH LAB)	
PHYS 142	CONCEPTS IN PHYSICS II	
Select 1 course fro	m the following:	3-4
EEPS 101	THE EARTH	
EEPS 106	INVESTIGATING EARTH'S SURFACE	
EEPS 107 / ENST 201	CLIMATE CHANGE AND EXTREME WEATHER	
EEPS 108	NATURAL DISASTERS	
EEPS 109	OCEANOGRAPHY	
EEPS 110	THE EARTH SYSTEM, ENVIRONMENT, AND SOCIETY	
EEPS 111	INHABITING PLANET EARTH	
EEPS 115	THE PLANETS	
EEPS 116	THE EARTH AND THE SOLAR SYSTEM	
Select 1 course fro	m the following:	3
EEPS 220	INTRODUCTION TO COMPUTATION IN THE EARTH, ENVIRONMENT AND PLANETARY SCIENCES	

or CMOP 2	2(INTRODUCTION TO ENGINEERING COMPUTAT	ION
Select 4 courses	from the following:	16
EEPS 321	EARTH AND PLANETARY SURFACE ENVIRONMENTS	
EEPS 322	EARTH AND PLANETARY CHEMISTRY AND MATERIALS	
EEPS 323	EARTH AND PLANETARY STRUCTURE AND DYNAMICS	
EEPS 324	EARTH'S INTERIOR	
EEPS 325	OCEANS, ATMOSPHERES AND CLIMATE	
EEPS 334	THE EARTH LABORATORY	3
Areas of Special	ization	
Select 1 from the	following Areas of Specialization (see Areas of	21-23
Specialization be	low):	
Environmenta	ll Earth Science	
Geoscience		
Planetary Scient	ence	
Total Credit Hou	rs Required for the Major in Earth,	71-74
Environmental a	nd Planetary Sciences	
Additional Credit	: Hours to Complete Degree Requirements *	18-21
University Gradu	ation Requirements (https://ga.rice.edu/	31
_	tudents/academic-policies-procedures/	
graduation-requi	rements/) "	
Total Credit Hou	rs	120

Footnotes and Additional Information

* Note: University Graduation Requirements include 31 credit hours, comprised of Distribution Requirements (Groups I, II, and III), FWIS, and LPAP coursework. In some instances, courses satisfying FWIS or distribution requirements may additionally meet other requirements, such as the Analyzing Diversity (AD) requirement, or some of the student's declared major, minor, or certificate requirements. Additional Credit Hours to Complete Degree Requirements include general electives, coursework completed as upper-level, residency (hours taken at Rice), and/or any other additional academic program requirements.

Areas of Specialization

To fulfill the remaining Earth, Environmental and Planetary Sciences major requirements, students must complete one of the following areas of specialization. Students are encouraged to discuss course selection with their academic advisor. Course lists to satisfy requirements are listed below the areas of specialization.

Area of Specialization: Environmental Earth Science

To fulfill the remaining Earth, Environmental and Planetary Sciences major requirements, students pursuing the Environmental Earth Science area of specialization must complete a minimum of 7 courses (21-23 credit hours, depending on course selection) as listed below.

C	Code	Title	Credit Hours
A	rea of Specializ	ation: Environmental Earth Science	
	Select at least 1 c Sourse lists below	ourse from each of the following 5 fields (see	15
	Breadth in Env	vironmental Science	
	Climate, Atmo	sphere, and Water	
	Environmental	l Geochemistry and Geophysics	

Modeling and Data Analysis Surface Processes Elective Requirements Select a minimum of 2 courses from the following: 6-6-
Elective Requirements
·
Select a minimum of 2 courses from the following:
Select a minimum of 2 courses from the following.
Any course from Earth, Environmental and Planetary Sciences departmental (EEPS) course offerings between course numbers EEPS 407:480, EEPS 482:490, EEPS 492:499
BIOS 201 INTRODUCTORY BIOLOGY I
BIOS 202 INTRODUCTORY BIOLOGY II
CHEM 211 ORGANIC CHEMISTRY I & CHEM 213 and ORGANIC CHEMISTRY DISCUSSION I
EEPS 390 GEOLOGY FIELD CAMP
or EEPS 391 PRACTICAL EXPERIENCE IN EARTH, ENVIRONMENTAL AND PLANETARY SCIENCE
MATH 212 MULTIVARIABLE CALCULUS
or MATH 232HONORS MULTIVARIABLE CALCULUS
PHYS 201 WAVES, LIGHT, AND HEAT
STAT 280 ELEMENTARY APPLIED STATISTICS
or STAT 180 AP/OTH CREDIT IN STATISTICS
Any course at the 300-level (or above) from the following subject codes: BIOS, CEVE, CHEM, CMOR, ENVS, MATH, MECH, PHYS, or STAT

Area of Specialization: Geoscience

Title

Total Credit Hours

& CHEM 213

EEPS 390

Code

To fulfill the remaining Earth, Environmental and Planetary Sciences major requirements, students pursuing the Geoscience area of specialization must complete a minimum of 7 courses (21-23 credit hours, depending on course selection) as listed below.

21-23

Cradit

Code	Title	Hours
Area of Speci	alization: Geoscience	
Select at least course lists be	t 1 course from each of the following 5 fields (see elow):	15
Deformation	on and Dynamics	
Geophysic	s	
Modeling a	and Data Analysis	
Petrology,	Geochemistry, and Materials Characterization	
Surface Pr	ocesses	
Elective Requ	irements	
Select a minin	num of 2 courses from the following:	6-8
Sciences d	e from Earth, Environmental and Planetary departmental (EEPS) course offerings between mbers EEPS 407:480, EEPS 482:490, EEPS	
BIOS 201	INTRODUCTORY BIOLOGY I	
BIOS 202	INTRODUCTORY BIOLOGY II	
BIOS 211	INTERMEDIATE EXPERIMENTAL CELLULAR AND MOLECULAR BIOSCIENCES	
CHEM 211	ORGANIC CHEMISTRY I	

and ORGANIC CHEMISTRY DISCUSSION I

GEOLOGY FIELD CAMP

or EEPS 39	91 PRACTICAL EXPERIENCE IN EARTH, ENVIRONMENTAL AND PLANETARY SCIENCE		CEVE 434	FATE AND TRANSPORT OF CONTAMINANTS IN THE ENVIRONMENT	3
MATH 212	MULTIVARIABLE CALCULUS		CEVE 444	ENVIRONMENTAL MICROBIOLOGY AND	3
or MATH 2	232HONORS MULTIVARIABLE CALCULUS			MICROBIAL ECOLOGY	
PHYS 201	WAVES, LIGHT, AND HEAT		CEVE 518	ENVIRONMENTAL HYDROGEOLOGY	3
STAT 280	ELEMENTARY APPLIED STATISTICS		EEPS 307 /	ENERGY AND THE ENVIRONMENT	3
or STAT 18	30 AP/OTH CREDIT IN STATISTICS		CEVE 307 / ENST 307		
	t the 300-level (or above) from the following s: BIOS, CEVE, CHEM, CMOR, ENVS, MATH, , or STAT		EEPS 437	EARTH'S NATURAL RESOURCES FOR THE ENERGY TRANSITION	3
Total Credit Hou		21-23	Code	Title	Credit Hours
	lization: Planetary Science		Breadth in Plan	etary Sciences	
	aining Earth, Environmental and Planetary requirements, students pursuing the Planetary Sc	ience	ASTR 230	ASTRONOMY LAB	3
area of specializ	eation must complete a minimum of 7 courses (21 pending on course selection) as listed below.		ASTR 243	LIVING WITH A STAR: THE PHYSICS OF THE SUN-EARTH CONNECTION	3
0.1		o !:·	EEPS 425	PLANETARY SURFACE PROCESSES	3
Code	Title	Credit Hours	EEPS 445	EARTH AND PLANETARY INTERIORS	3
Area of Specialis	zation: Planetary Science	Hours	EEPS 473	FORMATION AND EVOLUTION OF	3
	course from each of the following 5 fields (see	15		PLANETARY SYSTEMS	
course lists below	•	70	Code	Title	Credit
	and Dynamics		Climata Atmaa	nhara and Water	Hours
	d Data Analysis		CEVE 411	phere, and Water ATMOSPHERIC CHEMISTRY AND CLIMATE	3
_	ochemistry, and Materials Characterization		CEVE 411	HYDROLOGY AND WATER RESOURCES	3
Surface Proce			OLVL 412	ENGINEERING	3
Elective Require			EEPS 325	OCEANS, ATMOSPHERES AND CLIMATE	4
	n of 2 courses from the following:	6-8	EEPS 432	FLUID FLOW IN FRACTURED ROCKS	3
	om Earth, Environmental and Planetary		EEPS 433	CLIMATE DYNAMICS	3
	partmental (EEPS) course offerings between		EEPS 434	CLIMATE OF THE COMMON ERA	3
course numb 492:499	ers EEPS 407:480, EEPS 482:490, EEPS		EEPS 543	EARTH'S ATMOSPHERE	3
EEPS 390	GEOLOGY FIELD CAMP		Code	Title	Credit
or EEPS 39	91 PRACTICAL EXPERIENCE IN EARTH, ENVIRONMENTAL AND PLANETARY SCIENCE		Deformation an	d Dynamics	Hours
MATH 212	MULTIVARIABLE CALCULUS		EEPS 323	EARTH AND PLANETARY STRUCTURE AND	4
or MATH 2	232HONORS MULTIVARIABLE CALCULUS			DYNAMICS	
PHYS 201	WAVES, LIGHT, AND HEAT		EEPS 460	GLOBAL TECTONICS	3
PHYS 231	ELEMENTARY PHYSICS LAB		EEPS 461	STRUCTURE AND EVOLUTION OF	3
STAT 280	ELEMENTARY APPLIED STATISTICS			TECTONIC SYSTEMS	
or STAT 18	30 AP/OTH CREDIT IN STATISTICS		EEPS 462	TECTONOPHYSICS	3
•	t the 300-level (or above) from the following s: ASTR, CHEM, CMOR, MATH, MECH, PHYS,		EEPS 463	THE PHYSICS OF FAULTING AND EARTHQUAKES	3
or STAT			EEPS 464	HEAT AND MASS TRANSPORT ON EARTH AND PLANETS	3
Total Credit Hou	irs	21-23	EEPS 465	ROCK DEFORMATION AND RHEOLOGY	3
Course Lists	to Satisfy Requirements		EEPS 467	GEOMECHANICS	3
Code	Title	Credit	EEPS 468	VOLCANOES	3
		Hours			
Breadth in Envir	onmental Science		Code	Title	Credit
CEVE 310	PRINCIPLES OF ENVIRONMENTAL ENGINEERING	3	Environmental	Geochemistry and Geophysics	Hours
CEVE 414	COASTAL HAZARDS IN A CHANGING	3	EEPS 418	TRACE ELEMENT AND ISOTOPE GEOCHEMISTRY	3

CLIMATE

EEPS 420		
LLI 3 420	ORGANIC GEOCHEMISTRY	3
EEPS 437	EARTH'S NATURAL RESOURCES FOR THE ENERGY TRANSITION	3
EEPS 438	THE SCIENCE OF NATURE-BASED CARBON SEQUESTRATION	3
EEPS 458	ENVIRONMENTAL & APPLIED ROCK PHYSICS	3
Code	Title	Credit Hours
Geophysics		
EEPS 324	EARTH'S INTERIOR	4
EEPS 445	EARTH AND PLANETARY INTERIORS	3
EEPS 446	SEISMOLOGY I	3
EEPS 448	EXPLORATION GEOPHYSICS	4
EEPS 450	GEOPHYSICAL DATA ANALYSIS: DIGITAL SIGNAL PROCESSING	3
EEPS 454	INTRODUCTION TO SEISMIC INTERPRETATION: STRUCTURAL STYLES AND SEISMIC STRATIGRAPHY	3
EEPS 458	ENVIRONMENTAL & APPLIED ROCK PHYSICS	3
EEPS 459	WELL LOGGING AND PETROPHYSICS	3
Code	Title	Credit Hours
Modeling and Da	ata Analysis	
ASTR 408	STATISTICAL METHODS IN PHYSICS AND	2
A0111 400	ASTRONOMY	3
EEPS 433		3
	ASTRONOMY	
EEPS 433	ASTRONOMY CLIMATE DYNAMICS GEOPHYSICAL DATA ANALYSIS: INVERSE	3
EEPS 433 EEPS 451	ASTRONOMY CLIMATE DYNAMICS GEOPHYSICAL DATA ANALYSIS: INVERSE METHODS EARTH SYSTEMS MODELING I:	3
EEPS 433 EEPS 451 EEPS 471	ASTRONOMY CLIMATE DYNAMICS GEOPHYSICAL DATA ANALYSIS: INVERSE METHODS EARTH SYSTEMS MODELING I: PHILOSOPHY AND FUNDAMENTALS EARTH SYSTEMS MODELING: NUMERICAL	3 3
EEPS 433 EEPS 451 EEPS 471 EEPS 472 Code	ASTRONOMY CLIMATE DYNAMICS GEOPHYSICAL DATA ANALYSIS: INVERSE METHODS EARTH SYSTEMS MODELING I: PHILOSOPHY AND FUNDAMENTALS EARTH SYSTEMS MODELING: NUMERICAL TECHNIQUES AND APPLICATIONS	3 3 3 Credit
EEPS 433 EEPS 451 EEPS 471 EEPS 472 Code	ASTRONOMY CLIMATE DYNAMICS GEOPHYSICAL DATA ANALYSIS: INVERSE METHODS EARTH SYSTEMS MODELING I: PHILOSOPHY AND FUNDAMENTALS EARTH SYSTEMS MODELING: NUMERICAL TECHNIQUES AND APPLICATIONS Title	3 3 3 Credit
EEPS 433 EEPS 451 EEPS 471 EEPS 472 Code Petrology, Geocl	ASTRONOMY CLIMATE DYNAMICS GEOPHYSICAL DATA ANALYSIS: INVERSE METHODS EARTH SYSTEMS MODELING I: PHILOSOPHY AND FUNDAMENTALS EARTH SYSTEMS MODELING: NUMERICAL TECHNIQUES AND APPLICATIONS Title hemistry, and Materials Characterization EARTH AND PLANETARY CHEMISTRY AND	3 3 3 Credit Hours
EEPS 433 EEPS 451 EEPS 471 EEPS 472 Code Petrology, Geocl	ASTRONOMY CLIMATE DYNAMICS GEOPHYSICAL DATA ANALYSIS: INVERSE METHODS EARTH SYSTEMS MODELING I: PHILOSOPHY AND FUNDAMENTALS EARTH SYSTEMS MODELING: NUMERICAL TECHNIQUES AND APPLICATIONS Title hemistry, and Materials Characterization EARTH AND PLANETARY CHEMISTRY AND MATERIALS OPTICAL MINERALOGY AND	3 3 3 Credit Hours
EEPS 433 EEPS 451 EEPS 471 EEPS 472 Code Petrology, Geocl EEPS 322 EEPS 410	ASTRONOMY CLIMATE DYNAMICS GEOPHYSICAL DATA ANALYSIS: INVERSE METHODS EARTH SYSTEMS MODELING I: PHILOSOPHY AND FUNDAMENTALS EARTH SYSTEMS MODELING: NUMERICAL TECHNIQUES AND APPLICATIONS Title Title THE THE THE THE THE THE THE TH	3 3 Credit Hours 4
EEPS 433 EEPS 451 EEPS 471 EEPS 472 Code Petrology, Geock EEPS 322 EEPS 410 EEPS 411	ASTRONOMY CLIMATE DYNAMICS GEOPHYSICAL DATA ANALYSIS: INVERSE METHODS EARTH SYSTEMS MODELING I: PHILOSOPHY AND FUNDAMENTALS EARTH SYSTEMS MODELING: NUMERICAL TECHNIQUES AND APPLICATIONS Title hemistry, and Materials Characterization EARTH AND PLANETARY CHEMISTRY AND MATERIALS OPTICAL MINERALOGY AND PETROGRAPHY CHARACTERIZATION OF EARTH, ENVIRONMENTAL, AND PLANETARY MATERIALS	3 3 3 Credit Hours 4 3
EEPS 433 EEPS 451 EEPS 471 EEPS 472 Code Petrology, Geocl EEPS 322 EEPS 410 EEPS 411	ASTRONOMY CLIMATE DYNAMICS GEOPHYSICAL DATA ANALYSIS: INVERSE METHODS EARTH SYSTEMS MODELING I: PHILOSOPHY AND FUNDAMENTALS EARTH SYSTEMS MODELING: NUMERICAL TECHNIQUES AND APPLICATIONS Title Themistry, and Materials Characterization EARTH AND PLANETARY CHEMISTRY AND MATERIALS OPTICAL MINERALOGY AND PETROGRAPHY CHARACTERIZATION OF EARTH, ENVIRONMENTAL, AND PLANETARY MATERIALS ADVANCED PETROLOGY	3 3 3 Credit Hours 4 3
EEPS 433 EEPS 451 EEPS 471 EEPS 472 Code Petrology, Geocl EEPS 322 EEPS 410 EEPS 411 EEPS 412 EEPS 413	ASTRONOMY CLIMATE DYNAMICS GEOPHYSICAL DATA ANALYSIS: INVERSE METHODS EARTH SYSTEMS MODELING I: PHILOSOPHY AND FUNDAMENTALS EARTH SYSTEMS MODELING: NUMERICAL TECHNIQUES AND APPLICATIONS Title CHARACTERIZATION OF EARTH, ENVIRONMENTAL, AND PLANETARY MATERIALS ADVANCED PETROLOGY II TRACE ELEMENT AND ISOTOPE	3 3 3 Credit Hours 4 3

Code	Title	Credit Hours
Surface Process	ses	
EEPS 321	EARTH AND PLANETARY SURFACE ENVIRONMENTS	4
EEPS 415	GEOCHEMISTRY OF EARTH'S SURFACE	3
EEPS 425	PLANETARY SURFACE PROCESSES	3
EEPS 430	APPLIED STRATIGRAPHIC METHODS	3
EEPS 435	REMOTE SENSING	3
EEPS 436	GIS FOR SCIENTISTS AND ENGINEERS	3
EEPS 439	GEOMICROBIOLOGY	3
EEPS 530	SILICICLASTIC SEDIMENTS: DEPOSITIONAL SYSTEMS AND PROCESSES	3

Policies for the BS Degree with a Major in Earth, Environmental and Planetary Sciences

Program Restrictions and Exclusions

Students pursuing the BS Degree with a Major in Earth, Environmental and Planetary Sciences should be aware of the following program restrictions:

- As noted in Majors, Minors, and Certificates (https://ga.rice.edu/undergraduate-students/academic-opportunities/majors-minors-certificates/), under Declaring Majors, Minors and Certificates, students may not obtain both a BA and a BS in the same major. Students pursuing the BS Degree with a Major in Earth, Environmental and Planetary Sciences may not additionally pursue the BA Degree with a Major in Earth, Environmental and Planetary Sciences.
- As noted in <u>Majors, Minors, and Certificates</u> (https://ga.rice.edu/undergraduate-students/academic-opportunities/majors-minors-certificates/), students may not major and minor in the same subject.

Transfer Credit

For Rice University's policy regarding transfer credit, see Transfer Credit (https://ga.rice.edu/undergraduate-students/academic-policies-procedures/transfer-credit/). Some departments and programs have additional restrictions on transfer credit. The Office of Academic Advising maintains the university's official list of transfer credit advisors (https://oaa.rice.edu/advising-network/transfer-credit-advisors/) on their website: https://oaa.rice.edu. Students are encouraged to meet with their academic program's transfer credit advisor when considering transfer credit possibilities.

Departmental Transfer Credit Guidelines

Students pursuing the major in Earth, Environmental and Planetary Sciences should be aware of the following departmental transfer credit guidelines:

 Requests for transfer credit will be considered by the program director (and/or the program's official transfer credit advisor) on an individual case-by-case basis.

Additional Information

For additional information, please see the Earth Environmental and Planetary Sciences major page, on the Department of Earth,

Environmental and Planetary Sciences website: https://eeps.rice.edu/ undergraduate/.

Opportunities for the BS Degree with a Major in Earth, Environmental and Planetary Sciences

Academic Honors

The university recognizes academic excellence achieved over an undergraduate's academic history at Rice. For information on university honors, please see Latin Honors (https://ga.rice.edu/undergraduate-students/honors-distinctions/university/) (sum laude, and cum laude) and Distinction in Research and Creative Work (https://ga.rice.edu/undergraduate-students/honors-distinctions/university/). Some departments have department-specific Honors awards or designations.

Undergraduate Independent Research

The department encourages, but does not require, Earth, Environmental and Planetary Sciences (EEPS) undergraduate majors to pursue independent supervised research in EEPS 481. This can also be carried out as part of the Earth, Environmental and Planetary Sciences Honors Thesis Program (described below), or independently with a faculty mentor. Undergraduates enrolled in the Honors Research program automatically will be eligible for consideration for the university honor, the Distinction in Research and Creative Work (https://ga.rice.edu/undergraduate-students/honors-distinctions/university/). Other students who wish to be considered for this honor within the EEPS majors should discuss with an EEPS major advisor at the beginning of their senior year.

Honors Research

Undergraduates are encouraged to embark on an undergraduate honors thesis. The purpose of the honors thesis is for students to develop and demonstrate their creative and independent research potential. Students are recommended to begin in the fall of their junior year to provide ample time for research projects to be developed, executed, and written. However, honors theses must commence during the fall semester of senior year. Students are expected to enroll in at least two semesters of the course EEPS 481, spanning their senior year. Juniors who have identified a research project and mentor can also enroll in EEPS 481. Students should sign up for EEPS 481 for 3 credit hours.

Requirements and Recommendations for Completing an Undergraduate Honors Thesis Fall Semester of Senior Year

At the beginning of the fall semester, seniors interested in the honors thesis program must identify a thesis advisor, a thesis topic, and enroll in the required courses. During the semester, students will participate in meetings with other honors thesis candidates to discuss basic research protocols and philosophies, and meet independently with their chosen scientific advisor, and generate data, experiments or models. At the end of the semester, students must submit final versions of their proposals, describing motivation, hypothesis, methodology, and preliminary results. The honors thesis committee will evaluate the proposals, and if approved, students can continue in the honors thesis program. Required courses:

Code	Title	Credit
		Hours
EEPS 401	SEMINAR: UNDERGRADUATE HONORS	1
	THESIS	

EEPS 481	UNDERGRADUATE RESEARCH IN EARTH,	1-6
	ENVIRONMENTAL AND PLANETARY	
	SCIENCES	

Spring Semester of Senior Year

A mid-semester progress report must be submitted to the thesis committee for feedback. At the end of the spring semester, students submit their final theses, and give public oral exit talks. To complete the honors thesis program, student theses must be approved by the honors thesis committee. Required courses:

Code	Title	Credit Hours
EEPS 401	SEMINAR: UNDERGRADUATE HONORS THESIS	1
EEPS 481	UNDERGRADUATE RESEARCH IN EARTH, ENVIRONMENTAL AND PLANETARY SCIENCES	1-6

Further details about the program, and expectations and criteria for the thesis proposal and final thesis can be found on the Department of Earth, Environmental and Planetary Sciences website (https://eeps.rice.edu/eeps-honor-thesis/).

Other Points of Consideration

Students who are accepted into the Rice Undergraduate Scholars Program (RUSP) can substitute EEPS 481 courses for semesters 2 and 3 with HONS 470 and HONS 471. However, the students will have to meet all other requirements of the honors thesis set by the department.

Additional Information

For additional information, please see the Earth, Environmental and Planetary Sciences major page, on the Department of Earth, Environmental and Planetary Sciences website: https://eeps.rice.edu/undergraduate/.