EARTH, SOCIETY, & ENVIRONMENTAL SUSTAINABILITY: SCIENCE OF THE EARTH SYSTEM (SES), BSLAS

for the degree of Bachelor Science in Liberal Arts and Sciences Major in Earth, Society, & Environmental Sustainability, Science of the Earth System Concentration

All students wishing to attend graduate school in any field should discuss necessary supplementary course work with their advisor as early as possible.

A Major Plan of Study form must be completed and submitted to the LAS Student Affairs Office before the end of the fifth semester (60-75 hours). Study abroad courses may be substituted for major and minor requirements with approval of advisor.

Departmental distinction: Students who maintain grade point averages of at least 3.3 in all courses within the major and who undertake a faculty-guided individual research project for credit in the major are recommended for graduation with distinction.

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Distinction: A minimum cumulative grade point average of 3.3, and have also completed an approved independent study project, approved senior thesis, or approved capstone.
High Distinction: A minimum cumulative grade point average of 3.5, and have also completed an approved independent study project, approved senior thesis, or approved capstone.
Highest Distinction: A minimum cumulative grade point average of 3.7, and also completed an approved senior thesis or approved research capstone.

ESE Core Requirements:
General education: Students must complete the Campus General Education (https://courses.illinois.edu/gened/DEFAULT/DEFAULT/) **requirements including the campus general education language requirement.**
Minimum required major and supporting course work: Normally equates to 48-58 hours. Twelve hours of 300- and 400-level in the major must be taken on this campus. Substitutions may be made with advisor approval.
Minimum hours required for graduation: 120 hours.

Code	Title	Hours
ESES Introductory Core		**12-14**
Students take one approved introductory or advanced course from at least four of the following five areas.		
Earth's Biosphere and Ecology		
ESE 111, GEOL 143, IB 100, IB 103, IB 105, IB 150, MCB 150, NRES 105, UP 205		
Earth's Physical Systems, Resources, and Hazards		
ATMS 100, ATMS 120, ATMS 201, GEOL 100, GEOL 107, GEOL 117, GEOL 118, GGIS 103, GGIS 222		
Environment and the Human Response		
ACE 210, ACE 251, GGIS 106, HIST 202, REL 270, RST 242, SOC 160		
Sustainability, Policy, and Global Change		
ANTH 278, ATMS 140, CPSC 215, GEOL 208, LA 250, NPRE 101, NPRE 201, PS 224, PS 225, SOC 270		
Visualizing the Earth System		
ATMS 207, GGIS 105		
ESE coursework		**7**
ESE 200	Earth Systems	
GGIS 379	Introduction to Geographic Information Systems	
Advanced Courses		**15-20**
A minimum of five 300- and 400-level courses (from the list below) and in an academically coherent program approved by the advisor, are required. Courses taken to satisfy the "ESE Introductory Core" requirement cannot simultaneously be used to satisfy the Advanced Course requirement. It is strongly recommended that students complete the LAS requirement with 21 hours of 300- or 400-level courses related to the ESE curriculum.		
At least three of these five advanced courses must be listed or cross-listed as an ESE or ENSU course.		
Earth's Biosphere & Ecology		
ESE 439, HORT 430, IB 405, IB 440, IB 444, IB 447, IB 451, IB 452, IB 453, IB 461, IB 485, NRES 348, NRES 419, NRES 420, NRES 431		
Earth's Physical Systems, Resources, & Hazards		
ABE 436, ATMS 420, CEE 330, CHEM 360, ENSU 302, ESE 320, ESE 333, ESE 411, ESE 445, ESE 470, ESE 486, GEOL 380, GEOL 401, GEOL 450, GEOL 451, GEOL 460, GGIS 401, GGIS 406, GGIS 408, MSE 489, NRES 351		
Environment & the Human Response		

	AGCM 330, AGCM 430, CHLH 469, ENG 315, ENGL 476, ENSU 301, ESE 311, ESE 360, ESE 389, GGIS 350, GGIS 384, GGIS 455, GGIS 483, GGIS 495, GGIS 496, LA 314, LA 430, LA 450, NRES 340, NRES 472, SOC 447
Sustainability, Policy, and Global Change	
	ACE 310, ACE 406, ACE 411, ATMS 307, ATMS 447, ATMS 449, CPSC 336, CPSC 415, CPSC 431, ENSU 303, ENSU 310, ENSU 410, ESE 410, ESE 465, ESE 466, ESE 482, ETMA 311, LA 370, NPRE 480, NRES 325, NRES 424, NRES 426, NRES 439, UP 405, UP 446, UP 456, UP 480
Visualizing the Earth System	
	ATMS 305, ESE 421, ESE/GGIS 380, GGIS 371, GGIS 412, GGIS 460, GGIS 468, GGIS 476, GGIS 477, GGIS 479, NRES 427, NRES 454, UP 418

Science of the Earth System Concentration Requirements:

Code	Title	Hours
Cognate Course Work		15-18
CHEM 102	General Chemistry I	
or CHEM 202	Accelerated Chemistry I	
CHEM 103	General Chemistry Lab I	
or CHEM 203	Accelerated Chemistry Lab I	
MATH 220	Calculus	
or MATH 221	Calculus I	
STAT 100	Statistics	
PHYS 101	College Physics: Mech & Heat	
or PHYS 211	University Physics: Mechanics	
Highly recommended: ECON 102		

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Sample Sequence

This sample sequence is intended to be used only as a guide for degree completion. All students should work individually with their academic advisors to decide the actual course selection and sequence that works best for them based on their academic preparation and goals. Enrichment programming such as study abroad, minors, internships, and so on may impact the structure of this four-year plan. Course availability is not guaranteed during the semester indicated in the sample sequence.

Students must fulfill their Language Other Than English requirement by successfully completing a fourth level of a language other than English. This may require up to four semesters of language depending on high school coursework or placement. For more information, see the corresponding section on the Degree General and Education Requirements page *(*http://catalog.illinois.edu/general-information/degree-general-education-requirements/*).*

First Year

First Semester	Hours	Second Semester	Hours
Free elective course	1	ESES Introductory Core course or Composition I	3
ESE 200	3	MATH 220 or 221	5
CHEM 102 or 202	3	Language Other Than English (4th level)	4
CHEM 103 or 203	1	Free elective course	4
Language Other Than English (3rd level)	4		
Composition I or ESES Introductory Core course	4		
	16		**16**

Second Year

First Semester	Hours	Second Semester	Hours
PHYS 211 or 101	4	STAT 100	3
ESES Introductory Core course	3	ESES Introductory Core course	3
ESES Introductory Core course	3	General Education course	3
General Education course	3	General Education course	3
		Free elective course	3
	13		**15**

Third Year

First Semester	Hours	Second Semester	Hours
GGIS 379	4	Advanced ESE or ENSU course	3
Advanced ESE or ENSU course	4	General Education course	3
General Education course	3	General Education course	3
Free elective course	3	Free elective course	3
		Free elective course	3
	14		**15**

Fourth Year

First Semester	Hours	Second Semester	Hours
Advanced ESE or ENSU course	4	Advanced course from list	3
Advanced course from list	3	General Education course	3
General Education course	3	Free elective course	3
Free elective course	3	Free elective course	3
Free elective course	3	Free elective course	3
	16		**15**

Total Hours 120

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department website: https://www.earth.illinois.edu/
department faculty: Earth, Society & Environment Faculty (https://earth.illinois.edu/directory/faculty/)
advising: Earth, Society & Environment advising (https://earth.illinois.edu/academics/earth-society-and-environmental-sustainability-academics/academic-advising/)

overview of college admissions & requirements: Liberal Arts & Sciences (http://catalog.illinois.edu/schools/las/academic-units/)
college website: https://las.illinois.edu/