

# New Undergraduate Program (Majors, Minors, Sequences) Proposal

## Illinois State University - University Curriculum Committee

**Program Department** Geography, Geology, and the Environment

**Initiator** Eric Peterson

**Phone** 438-7649

**Initiator Department** Geography, Geology, and the Environment

**Coauthor(s)** None

**Title of New Program** Traditional Environmental Systems Science and Sustainability

**Submission Date** Thursday, October 26, 2023

**Email** ewpeter@ilstu.edu

**Campus Address** 4400 Geography - Geology

**Version** 2 **ID** 472

**Proposed Starting Catalog Year** 2024-2025

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### 1. Proposed Action

New Major

New Minor

✓ New Sequence

More than 50% of courses in this program are Distance Education

#### Sequence Major

Environmental Systems Science and Sustainability

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### 2. Provide *Undergraduate Catalog* copy for new program.

Major in Environmental Systems and Science and Sustainability (ESSS), Traditional Sequence

Advisor: Jill Freund Thomas

(309) 438-8403

Email: jfthoma@ilstu.edu

Students are encouraged to pursue a minor in Biological Sciences or Chemistry or Physics or Mathematics. ESSS students may not minor in the existing Environmental Studies Minor program.

View Environmental Systems and Science and Sustainability Course Requirements

Major in Environmental Systems and Science and Sustainability (ESSS), Traditional Sequence

Degree offered: B.S.

Major Requirements

Minimum required credit hours: 81

Required courses

- BSC 196
- BSC 197
- BSC 201
- CHE 140
- ECO 101
- GEO 100
- GEO 202
- GEO 205
- GEO 238
- GEO 293
- GEO 303
- GEO 398a02
- MAT 145
- PHI 236
- POL 106

Take 1 of the following

- GEO 135
- GEO 142

Take 1 of the following

- PHY 105
- PHY 108
- PHY 110

Take 2 of the following

- CHE 141
- IT 166
- MAT 146
- PHY 109 or PHY 111

Complete 5 courses (min. 15 credit hours) from one single track below

Track A - Generalist

Take 2 from the following courses

- BSC 202
- BSC 211
- BSC 280
- BSC 311
- BSC 375
- BSC 376
- CHE 215 (CHE 216 lab may also be taken)

- CHE 220
- CHE 360 (CHE 361 lab may also be taken)
- CHE 362 (CHE 363 lab may also be taken)
- GEO 276
- GEO 306
- GEO 314
- GEO 318
- GEO 341
- GEO 344
- GEO 360
- GEO 361
- GEO 380
- GEO 382
- PHY 318 or CHE 318

Take 2 from the following

- ANT 273
- ANT 375
- COM 274
- ECO 236
- ECO 255
- GEO 317
- GEO 334
- PHI 250
- PHI 310
- POL 236
- POL 252
- SOC 241
- SOC 302
- SOC 330

Take 1 from the following

- GEO 304
- GEO 305
- GEO 308
- IT 166

Track B - Water Resources

Take 5 from the following

- BSC 311
- BSC 375
- BSC 376
- GEO 276
- GEO 314
- GEO 317
- GEO 318
- GEO 319
- GEO 360
- GEO 361

Track C - Environmental Systems Analysis

- IT 166

Take 4 from the following

- BSC 311
- CHE 215 (CHE 216 lab may also be taken)
- CHE 360 (CHE 361 lab may also be taken)
- CHE 362 (CHE 363 lab may also be taken)
- GEO 304
- GEO 305
- GEO 306
- GEO 308
- GEO 314
- GEO 319
- PHY 318 or CHE 318

Track D - Nature and Society

Take 1 from the following

- ENG 145a13
- COM 268
- COM 274

Take 4 from the following

- ANT 273
- ANT 375
- ECO 236
- ECO 255
- GEO 317
- GEO 334
- PHI 250
- PHI 310

- PHY 207
- POL 236
- POL 252
- SOC 241
- SOC 302
- SOC 330

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**3. Provide a description for the proposed program.**

This is the existing program - no changes are proposed. An Environmental Systems Science and Sustainability Accelerated master's degree Sequence is being proposed, which requires the development of the traditional sequence,

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**4. Provide a rationale of proposed program.**

This is the existing program. An Accelerated Environmental Systems Science and Sustainability (ESSS) Sequence is being proposed, which requires the development of the traditional sequence,

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**5. Describe the expected effects of the proposed program on existing campus programs (if applicable).**

This program currently exist - there will be no changes.

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**6. Provide a sample four-year plan of study that fulfills the following requirements:** 120 hours, 42 senior college hours (200 and 300 level courses), and 39 General Education Program hours or 36 hours with exemption. If the program is a BS program, show the BS-SMT degree requirement. If the program is from CAS, show Foreign Language Requirement (LAN 111/LAN 112). Confirm General Education requirement exemptions on the General Education page of the current Academic Catalog. *4-year plans are not required for minor program proposals.*

**TRADITIONAL ENVIRONMENTAL SYSTEMS SCIENCE AND SUSTAINABILITY SEQUENCE (BS)**

4-YEAR PLAN OF STUDY

Total number of hours = 111 (general education plus major)

**Courses in bold signify general education classes required for major**

Year 1 (28 hours)

Fall (14 hours)

ENG 101 – Composition as Critical Inquiry (CC) (3)

**MAT 145 – Calculus I (M) (4)**

**BSC 196 – Biological Diversity (NSA) (4)**

**GEO 135 – World Geography or GEO 142 – Human Geography (UST) (3)**

Spring (14 hours)

COM 110 – Communication as Critical Inquiry (CC) (3)

**CHE 140 – General Chemistry (NSA) (4)**

**GEO 100 – Environmental Systems Science (4)**

General Education course (3)

Year 2 (32-33 hours)

Fall (17 hours)

**GEO 202 – Evolution of the Earth (SMT) (3)**

**GEO 205 – Living in the Environment (3)**

**GEO 238 – Statistics I (3)**

**BSC 197 - Molecular And Cellular Basis Of Life (4)**

Foreign Language (4)

Spring (15-16 hours)

**GEO 303 – GIS (4)**

**ECO 101 – Principles of Microeconomics (3)**

**PHY 108 or 110 – College Physics I or Physics for Science and Engineering I (4-5)**

Foreign Language (4)

Year 3 (31-32 hours)

Fall (16-17 hours)

**BSC 201 – Ecology (3)**

**POL 106 – US Government and Civic Practices (ICL) (3)**

Science, Math, IT major elective (4-5)

General Education course (3)

General Education course (3)

Spring (15 hours)

**PHI 236 – Values and the Environment (3)**

General Education course (3)

University-wide elective (3)

IDEAS course or University-wide elective (3)

AMALI course or University-wide elective (3)

Year 4 (33-34 total hours)

Fall (15 total hours)

Major elective course (3)

Major elective course (3)

University-wide elective (3)

University-wide elective (3)

University-wide elective (3)

Spring (14-15 total hours)

**GEO 293 – Career Preparation in Environmental Systems (1)**

Science, Math, IT major elective (4-5)

Major elective course (3)

Major elective course (3)

Major elective course (3)

Summer (4 undergraduate hours)

**GEO 398a02 – Professional Practice: Internship in Environmental Systems (4)**

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7. Describe the expected curricular changes required, including new courses. If proposals for new courses have also been submitted, please reference those related proposals here:

No changes are being made.

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8. Anticipated funding needs and source of funds.

No additional funding is needed. The Financial Implications form has been completed and attached to this proposal.

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9. No Does this program count for teacher education?

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10. No Is this an Interdisciplinary Studies program?

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11. The following questions must be answered.

No Have you confirmed that Milner Library has sufficient resources for the proposed program?

Explain why Milner Library has not been contacted.

This program is currently approved. We have not contacted Milner Library as there are no new items concerning this program.

No Are more than 120 hours required to complete a degree with this major?

No Beyond General Education, does the major require more than 66 semester hours?

Yes Does this sequence (if in a major) require more than 55 semester hours of courses in the major department/school?

Yes Does this program stipulate specific general education courses offered in the major department/school as a part of the major requirements only if such courses serve as prerequisites for other courses required by the major?

Explain why specific general education courses are required.

GEO 202 Evolution of the Earth

GEO 135 World Geography OR GEO 142 Human Geography

These courses are most suitable to provide important content in areas not available in major classes at the lower levels.

No Does this program stipulate specific course requirements (majors/sequences only) that also satisfy general education and/or IAI requirements?

No Is the proposed program intended to be longer than four years (as indicated by the plan of study)?

N.A. Have letter(s) of concurrence from affected departments/schools been obtained?  
*A department/school is affected if it has a program with significant overlap or if it teaches a required or elective course in the program.*

**1. Geography, Geology, and the Environment Department Curriculum Committee Chair**

<u>Matthew Himley (website)</u> Signature	<u>Matthew Himley</u> Print	<u>11/1/2023 2:42:57 PM</u> Date
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**2. Geography, Geology, and the Environment Department Chair/School Director**

<u>Eric Peterson (website)</u> Signature	<u>Eric Peterson</u> Print	<u>11/7/2023 11:35:01 AM</u> Date
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**3. College of Arts & Science College Curriculum Committee Chair**

<u>Todd Stewart (website)</u> Signature	<u>Todd Stewart</u> Print	<u>11/15/2023 1:33:32 PM</u> Date
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**4. College of Arts & Science College Dean**

<u>Rocio Rivadeneyra (website)</u> Signature	<u>Rocio Rivadeneyra</u> Print	<u>11/16/2023 8:54:33 AM</u> Date
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**5. University Curriculum Committee Chair**

<u>Joshua Newport (website)</u> Signature	<u>Joshua Newport</u> Print	<u>2/1/2024 10:49:32 AM</u> Date
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All new programs (majors, minors, sequences) are routed by the U.C.C. to the Academic Senate

**Comments****Comments from Version 1 from Eric Peterson ( Department Curriculum Committee Chair):**

I need to revise the catalog copy.

Include Page Breaks on Print  No Page Breaks  Include User HTML  Exclude User HTML

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**Comments on Proposal. (Required if proposal rejected)****Academic Senate Approver**

Approve

Reject