

GEP Advising Slides

You are expected to maintain a graduation plan with a proposed list of courses between now and your graduation semester.

These advising slides provide information to help you create and maintain a successful graduation plan.

To use our collective time as effectively as possible, please study these slides in advance of scheduling an office hours appointment.

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GEP Advising Resources

The department provides several resources to be sure your graduation plan meets all of your degree requirements.

- These slides can be found at the GEP website on the "Registration Info for the Upcoming Semester" page.
- A list of frequently asked questions "FAQ" are on the GEP website on the "Advising for GEP" page.
- A preliminary list of upcoming courses is kept on the "Advising for GEP page".
- Let us know if there is information you need that isn't in these resources.

GEP Degree Requirements

The [GEP Degree Programs Page](#) lists the requirements for each of these categories of courses.

- GEP Foundation Courses
- Breadth Courses
- Elective Courses
- Supporting Courses

GEP BA/BS Foundation Courses

- We recommend you take these early
- These do not have to be completed before you take Breadth or Electives courses.
 - (Unless they are listed as prerequisites in the course description.)

GEP BS Natural and Data Science Foundation Courses

- Take two courses from the Biological Science Theme or the Physical Science Theme
- Take an additional course from another theme to reach 10 units

GEP Breadth Courses

- These do not have to be completed before the electives courses.
 - (Unless they are listed as prerequisites in the course description.)

GEP Professional Preparation Courses

- GEP 310
 - The course assignments require you to write about potential career options based on your focus area.
 - Be sure you have decided on your focus area before taking this class.
 - This class is not recommended for first-semester transfers.

GEP BA/BS Electives Courses

- Take 21 units total
- Take 3 courses in your declared focus area
- Take one 400-level class in any area
- Courses counting as breadth do not count for electives

Declaring a Focus

- If you have decided on a focus, use the change of major form to declare
- If you have not decided on a focus, look at jobs and graduate programs that seem interesting. Look at the expertise they require and choose a focus aligned with that.
- Also look for BA and BS requirements for interesting jobs to make your decision.

Change of Major Form

Student First Name: Gertrude E. Student Last Name: Perez
SSU ID: 8675309 Student Email Address: perezge@sonoma.edu

Adding a Major/Minor

Add the following: Major 2nd Major Minor Catalog Year

New Program: Environmental Science, Geography and ... ▼

Concentration: Enter Focus Area Here

Catalog Year*:

*Represents the catalog requirements the student is graduating under. If not stated, catalog year will default to year of student's admittance.

- Select the BA or BS major from the dropdown
- Enter your focus area in the box for Concentration
- In most cases, leave the catalog year blank

Creating a Graduation Plan

We recommend that you choose the semester you want to graduate and start planning all your classes between now and then.

Having this plan will help you adapt your educational pathway to any changes.

Creating a Graduation Plan

Your plan can be as simple as a piece of paper with your classes in columns. (This is just a generic example below.)

Fall 2022	Spring 2023	Fall 2023	Spring 2024
Breadth	Breadth	Capstone	Internship
Foundation	Elective	Elective	Elective
...

Using your Academic Requirements Report and the degree plans, determine what you still need to complete. Using the planned schedule of classes, choose a semester to complete each requirement.

Creating a Graduation Plan

If you prefer paper, you can print the PDF version and mark your courses as planned or completed.

BS Environmental Studies, Geography and Planning (68 units)

GEP FOUNDATION 11 units

Environmental Systems

- GEP 201 Global Environmental Systems (3, GE B1)

Society, Environment and Development (choose one)

- GEP 203 Human Geography (3, GE D)
- GEP 206 Society, Environ. & Sustainable Dvlpmnt (3, GE E)
- GEP 305/6 World Regions in Global Context (3, GE UD D)

Environmental Inquiry and Analysis (take both)

- GEP 211 GEP Forum (1)
- GEP 280 Foundations in Environ. Data & Analysis (4)

NATURAL & DATA SCIENCE FOUND 10 units

NOTE: Choose three courses from at least two each category

Biological Science Theme

- BIOL 130 Intro Cell Biology and Genetics (4, GE B2, B3)
- BIOL 131 Biological Diversity and Ecology (4, GE B2, B3)

Physical Science Theme

- CHEM 110 or CHEM 115A (3-5, GE B1 or B1, B3)
- CHEM 115B (5, GE B1, B3)
- PHYS 114 or 210A (3-4, GE B1 or B3)
- PHYS 214 or 210B (3-4)

Geospatial Data Science Theme

- CS 115 Programming I (4)

BREADTH 15 units

NOTE: Choose one course from each category

Society, Environment and Development

- GEP 324 Climate Change & Society (4)
- GEP 325 Global Food Systems (4)
- GEP 330 Environmental History (4)

Environmental Systems

- GEP 340 Applied Ecology (3)
- GEP 351 Natural Hazards (3, GE UD B)
- GEP 355 Weather and Climate (3, GE UD B)

Sustainable Communities

- GEP 360 Intro to Urban and Regional Planning (4)
- GEP 370 Globalization and the City (4)
- GEP 373 Energy, Technology, & Society (4)

Geospatial Analysis

- GEP 387 Introduction to GIS (4)

PROFESSIONAL PREP & EXPERIENCE 5 units

NOTE: * 310 & 311 required; 311 is repeatable but only 1 unit counts here

- GEP 310 Professional Development (2) *
- GEP 311 Research Colloquium (1) *
- GEP 201b Global Environmental Systems Lab (1, GE B3)
- GEP 312 Professional Conferences (1-2)
- GEP 313 Field Experience (1-2)
- GEP 316 Research Assistant in GEP (1-4)
- GEP 317 Internship (1-3)
- GEP 318 Agroecology in Practice (2)
- GEP 319 Native Plant Propagation in Practice (2)

SUPPORTING (outside GEP) NOTE: Substitutions possible in consultation with an advisor. Classes may have LD prerequisites 6 units

Biological Science Theme

BIOL 314; 322; 323; 324; 327; 329; 330;
332; 333; 334; 335; 337; 338; 341; 351

Physical Science Theme

CHEM 300; 335A; 336A
GEOL 303; 310; 323

Data Science Theme

ANTH 328; BIOL 485
ECON 317; ES 314
CS 210; 215; 355; 370; 386
MATH 161; PHYS 381

GEP ELECTIVES 21 units

NOTE: Take 3 courses in one focus area. Take additional electives within any focus area to reach 21 units. Take a 400-level course during junior/senior year (72+ units). Breadth courses do not count as electives. Special topics (GEP 396; 397) may apply to a focus in consultation with an advisor.

Focus 1: Environmental Management & Policy

- GEP 323 Resource Mgmt. & Devel. Global Pers (4)
- GEP 324 Climate Change & Society (4)
- GEP 325 Global Food Systems (4)
- GEP 330 Environmental History (4)
- GEP 333 Natural Resource Planning (4)
- GEP 335 US Environmental Policy (4)
- GEP 336 US Environmental Law (3)
- GEP 337 Landscape History of the Am. West (4)
- GEP 360 Intro to Urban and Regional Planning (4)
- GEP 362 Environmental Impact Assessment (3-4)
- GEP 367 Transportation Policy and Technology (3-4)
- GEP 368 Urban Design (3-4)
- GEP 422 Globalization and Environments (4)
- GEP 431 Restoration and Society (4)

Focus 2: Environmental Systems

- GEP 340 Applied Ecology (3)
- GEP 343 Biogeography (4)
- GEP 344 Field Methods (2)
- GEP 345 Lab Methods (2)
- GEP 346 Restoration Ecology (4)
- GEP 350 Geomorphology (4)
- GEP 351 Natural Hazards (3, GE UD B)
- GEP 352 Soil Science (3-4)
- GEP 354 Watershed Hydrology and Management 4
- GEP 355 Weather and Climate (3, GE UD B)
- GEP 442 Conservation Biology (4)
- GEP 456 Global Climate Change(4)

Focus 3: Energy Management & Design

- GEP 373 Energy, Technology, & Society (4)
- GEP 374a Strategies for carbon and energy reductions (3)
- GEP 374b Laboratory Methods for Energy (1)
- GEP 375 Renewable & Resilient Energy Sources (4)
- GEP 476 Energy Services and Efficiency (4)

Focus 4: Geospatial Science

- GEP 380 Environmental Remote Sensing (4)
- GEP 385 Cartographic Visualization (3-4)
- GEP 388 Environmental GIS (3-4)
- GEP 486 Environmental Data Analysis (4)
- GEP 489 Advanced GIS (3-4)

Advising Expectations

The university has [student learning outcomes](#) for advising so that you can take ownership of your educational pathway.

Advising Student Learning Outcomes

- Students will know why, where, and how to seek advising.
- Students will actively participate in advising and understand their role in developing their educational pathway.
- Students will know how to register for courses and utilize supporting tools/resources.
- Students will be able to find and utilize their Academic Requirements Report (ARR) to identify the degree requirements that are completed, in-progress, and outstanding.

Advising Student Learning Outcomes

- Students will know where to find enrollment policies, processes, and related forms.
- Students will understand Good Academic Standing, Satisfactory Academic Progress (SAP), Academic Probation, and Disqualification.
- Students will be able to find and utilize the Program Roadmap for their major and General Education (GE) requirements, identify where they have agency in the curriculum, and curate a meaningful educational pathway.

Advising Student Learning Outcomes

- Students will understand how their educational pathway impacts their graduation timeline.
- Students will understand how campus resources, services, and co-curricular opportunities enrich and support their educational pathway.
- Students will understand how their educational pathway connects their values, skills, and abilities to their personal, academic, and professional goals.

Advising Checklist

Before your appointment

- Review these slides
- Review your ARR
- Sketch out your graduation plan
- Prepare specific questions

Advising Checklist

To make an appointment

- Find the hours for your advisor at the [GEP website](#)

Advising Checklist

During your appointment

- Be prompt and cancel your appointment if you can't make it so others can use it
- Focus on specific, individual questions so that you make the most of your appointment

Advising Resources

- [GEP Degree Programs Page](#)
- [SSU Where to Seek Advising](#)
- [Reading Your ARR Video](#)
- [Course Catalog](#)

Special Topics Classes

The department hold classes on special topics that count for degree requirements.

396 Water Research Training (2 units)

Course Description: In the fall, scientists at Sonoma Water pose a question to the class related to the Laguna de Santa Rosa watershed. Students explore the literature to understand the question, perform experiments in the field related to the question, and begin data analysis. Roughly 50% of class time is spent collecting data in the Laguna de Santa Rosa. The class collaboratively presents the results to our collaborators Sonoma Water. In the spring, additional field work is performed as needed and data analysis is completed. The class then creates a poster to present at CSU's annual Water Resources and Policy Initiatives (WRPI) conference and the SSU Student Research Symposium.

Fulfills requirements:

- Electives
- Electives Focus Area - Environmental Systems
- Breadth - Professional Preparation