

GEP

Course Offerings Spring 2022

Note for simplicity the following slides list course offerings according to the new BA and BS degree options

Students should refer to the new degree details available on the Dept. website

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GEP Required Foundation courses

By the time you graduate you must have taken one class from each category

Environmental Systems (required)

- GEP 201 (B1) (3) offered Fall and Spring

Society, Environment, and Development (Choice of 3 –select one course)

- GEP 203 (D) (3)(not offered this spring)
- GEP 206 (E) (3)
- GEP 305 (Fall) or GEP 306 Spring (UD D) (3)

Environmental Inquiry and Analysis (both required)

- GEP 211 (was 215) (Fall only)
- GEP 280 (was 202) offered Fall and Spring

Note: we are also offering a new course GEP 110: Communication of Environmental Issues (3)

This does not count towards the major but fulfills area A1

Required Upper Division Breadth in GEP

By the time you graduate you must have taken one class from each category

Society, Environment, and Development (Choice of 3 –select one course)

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

Environmental Systems (Choice of 3 –select one course)

- GEP 340 Applied Ecology (3) (Fall)
- GEP 351 Natural Hazards (3) (B) (Fall)
- **GEP 355 Weather and Climate (3) (B) (Spring)**

Sustainable Communities (Choice of 3 –select one course)

- **GEP 360 Introduction to Urban and Reg. Planning (4) (Spring)**
- GEP 370 Globalization and the City (4) (Fall)
- **GEP 373 Energy, Technology & Society (4) (Fall and Spring)**

Geospatial Analysis and Technology (Required Course)

- **GEP 387 Introduction to GIS (4) (offered Fall and Spring)**

Professional Preparation & Experiences for GEP

By the time you graduate you must have taken 5 units

Juniors and Seniors

GEP 310 Required (Offered Fall & Spring) (2)

GEP 311 Required (Spring only) (1)

GEP 317 Internship (1-4 units)

- 1) This is a contract course, students do NOT sign up for GEP 317 during registration;
- 2) Ideally students should take GEP 310 before GEP 317, logistics of signing up for GEP 317 covered in GEP 310
- 3) Contact Prof. Laney to get on GEP 317 canvas site

GEP 318 (was 443) Agroecology in practice (2)

GEP 319 (was 444) Native Plant Propagation in Practice (2)

GEP Electives

By the time you graduate you must have taken 21 elective units including one 400 level course

GEP 323 Resource Management & Development in Global Perspectives (4)

GEP 324 Climate Change and Society (4) *

GEP 355 Weather and climate (3-UD GE area B) *

GEP 360 Introduction to Planning (4)

GEP 362 Environmental Impact Assessment (4)

GEP 371 Social Geography of the American City (3)-UD GE area D

GEP 373 Energy, Technology & Society (4)*

GEP 396.1 Special topics: Atmospheric Rivers (2)

GEP 396.2 Special topics: Water Research Training (Prereq: Fall 396) (1)

GEP 396.3 Special Topics: Water and Land Use Planning Research (3)

GEP 396.4 Special topics: Waste Management, Recycling, and Policy (4)

* Do not double count for breadth but can be taken as electives if breadth area completed

Also available Capstone classes, next slide.

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GEP 396.1 Special topics: Atmospheric Rivers (2 units)

Prof. Hernandez Ayala

This course introduces students to the oceanic and atmospheric processes behind the formation and evolution of Atmospheric Rivers. Students in this course will learn the science behind atmospheric rivers by reading scientific literature on the topic and working on multiple lab exercises that will cover various aspects of atmospheric rivers. The course will allow students to explore and learn how atmospheric rivers can produce extreme precipitation events, flash floods and mudslides. The course will also explore the hydroclimatological benefits of atmospheric rivers in the Western U.S., especially in California. Students will work on group research projects that will focus on certain areas of atmospheric river science.

Applied to ES focus.

Prerequisite: GEP 201

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GEP 396.2 Special topics: Water Research Training (1 unit)

Prof. Guilford

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.

Applied to ES foci or Practical Experiences

Prerequisite: Fall GEP396

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GEP 396.3 Water and Land Use Planning Research (3 units)

Prof. Fang

California and the western US are in the grips of an ever-worsening drought. There are many factors that affect how problematic the drought is, including our land use and development patterns. For example, the sprawling nature of California suburbs leads to as much residential water consumption outside homes as inside homes. In this research-focused class, we'll explore scholarship on water issues and discuss what that research can tell us about how to deal with water challenges. Along the way we will explore methods used in policy and planning research, in preparation for original research to be conducted by the class.

Applied to SED/Urban Studies and Planning or Env. Management and Policy foci.

Prerequisite: Class open to Sophomores, Juniors, Seniors, and Graduate Students only.

Concurrent or completed enrollment in any of the following: GEP 323, GEP 360, GEP 379, or consent of instructor.

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GEP 396.4 Waste Management, Recycling, & Policy (4 units)

Prof Wagner

This course examines the management of waste through a sustainability lens. We will identify and analyze innovative policy approaches to foster reduction and recycling in addition and traditional approaches related to composting and disposal. We will examine planning issues involving capacity requirements, siting locations, and transportation. We will also explore waste-related global problems, environmental justice, food waste, and single-use plastics. Students will conduct research on a local solid waste planning or management issue/project to identify cost-effective approaches to reducing land-disposal.

Applied to SED/Urban Studies and Planning or Env. Management and Policy foci.

Prerequisite: Class open to Juniors, Seniors, and Graduate Students only.

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400-level courses offered spring 2022

- 431 (was 331) Restoration and Society (Friesen, seniors initially)
- 446 (was 346) Restoration Ecology (St. John, GEP 340 or BIOL 131)
- 476 Energy Services and Efficiency (Soto, pre-req 374a/b)
- 486 (was 390) Environmental Data Analysis (Hernandez-Ayala, pre-req GEP 201, 280 and 387)
- 491 Global Issues Capstone, pt. 2 (Nardine, pre-req GEP 490)

Notes

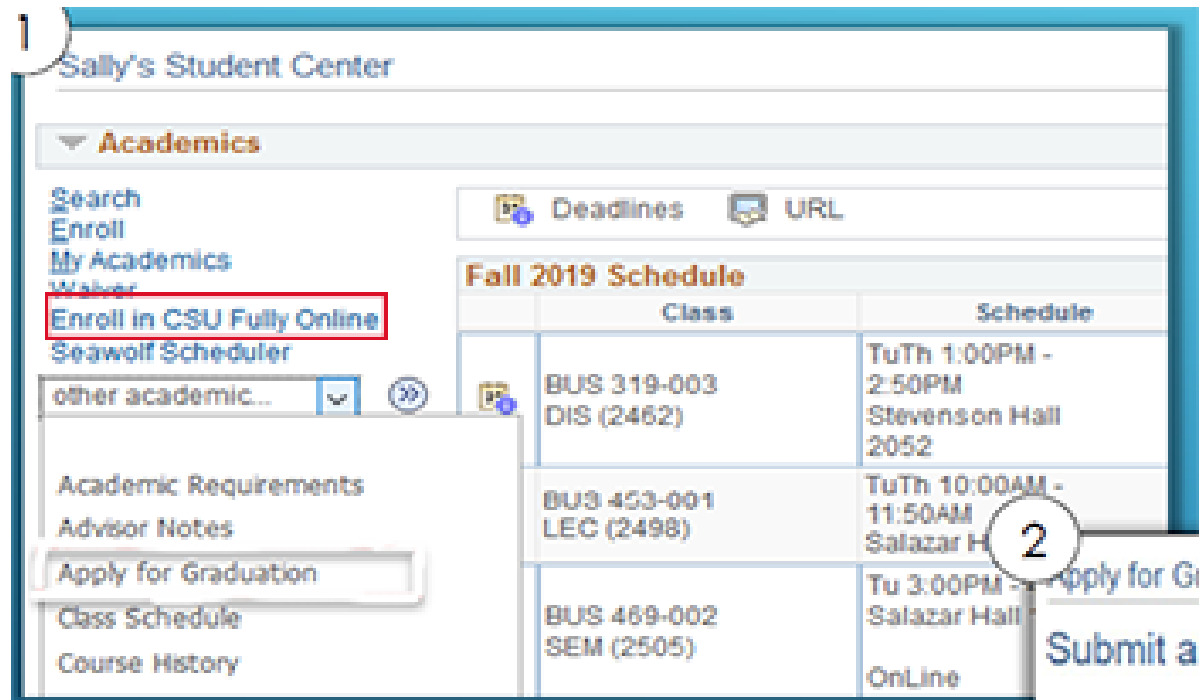
- All students must complete a minimum of one 400 level course by time of graduation
- Courses with same/similar title taught previously as a 300-level courses **will not count** toward the 400-level requirement
 - Please take a different 400-level course
- The 400-level course must be taken in your junior/senior year to meet the Capstone requirement

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CSU Fully Online Courses

You are eligible to take one course per semester at no extra cost through CSU Fully Online. Look for more information about that here: <https://www.csfullyonline.com/>

Note the direct access to enroll is located in your SSU Student Center.



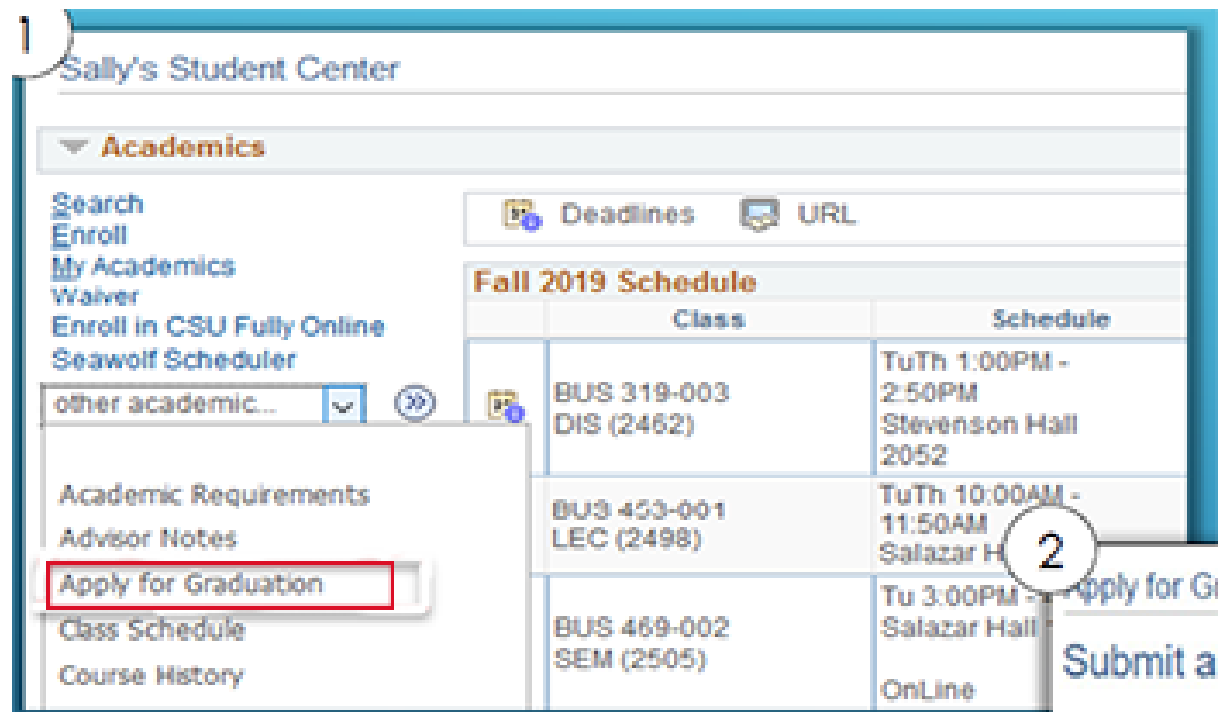
The screenshot shows a student center interface for 'Sally's Student Center'. Under the 'Academics' section, there is a list of navigation options: Search, Enroll, My Academics, Waiver, **Enroll in CSU Fully Online** (highlighted with a red box), and Seawolf Scheduler. Below this is a search bar with the text 'other academic...' and a dropdown arrow. A secondary menu is open, listing: Academic Requirements, Advisor Notes, **Apply for Graduation** (highlighted with a white box), Class Schedule, and Course History. To the right, there is a 'Fall 2019 Schedule' table with columns for 'Class' and 'Schedule'. The table contains three rows of course information. A 'Deadlines' icon and a 'URL' icon are visible above the table. A 'Submit a' button is partially visible at the bottom right. A blue circle with the number '2' is overlaid on the table area.

| Class | Schedule |
|---------------------------|---|
| BUS 319-003 DIS (2462) | TuTh 1:00PM - 2:50PM Stevenson Hall 2052 |
| BUS 453-001 LEC (2498) | TuTh 10:00AM - 11:50AM Salazar H |
| BUS 469-002 SEM (2505) | Tu 3:00PM - Salazar Hall OnLine |

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Graduating Seniors - Application for Graduation

- Apply through your SSU Student Center.



The screenshot shows the 'Sally's Student Center' interface. On the left, under the 'Academics' section, there is a list of links: Search, Enroll, My Academics, Waiver, Enroll in CSU Fully Online, Seawolf Scheduler, other academic..., Academic Requirements, Advisor Notes, **Apply for Graduation** (highlighted with a red box), Class Schedule, and Course History. On the right, there is a 'Fall 2019 Schedule' table with columns for 'Class' and 'Schedule'. The table lists three classes: BUS 319-003 DIS (2462), BUS 453-001 LEC (2498), and BUS 469-002 SEM (2505). A circular callout with the number '2' points to the 'Apply for Graduation' link. Below the table, there is a 'Submit a' button.

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Important Links

- Spring 2022 GEP Schedule: <http://gep.sonoma.edu/courses/class-schedule>
- GEP Degree Programs: <http://gep.sonoma.edu/geography-environment-and-planning-gep-degree-programs>
 - [Bachelor of Arts in Environmental Studies, Geography, and Planning](#)
 - [Bachelor of Science in Environmental Science, Geography and Management](#)
 - [Geography and Environment \(Minor\)](#)

Connecting with GEP advisors: <http://gep.sonoma.edu/advising>