

**Instructions for Minor Revisions:**

- Complete this form when the proposed changes will impact the words, numbers, or symbols as presented in the current catalog copy (often referred to as “changing the footprint of the catalog”).
- Catalog copy is available at <http://www.fgcu.edu/catalog/>. Scroll down to “Academic Programs” on the left navigation bar. Select Minors and choose the Minor to be edited. Select “Print Program Details” in the upper right corner. Copy and paste catalog copy into a Word document. Turn on the tracking function (be sure that both additions and deletions appear in the tracking). Update the catalog year and make edits. Save the document as a Word file.
- When the proposed changes are approved by the College Curriculum Team, the College Administrator will send the following to Lucero Carvajal in Academic and Curriculum Support (ACS) no later than **May 31** for review by the University Undergraduate Curriculum Team (UUCT).
  - An electronic MS Word version of the **tracked** catalog via email.
  - A color hard copy of the Minor Revision Proposal with appropriate signatures via campus mail.
  - An electronic MS Word version of the minor curriculum map via email (please refer to question #13 below for further explanation).
- If changes are for courses only and there is no impact to the catalog copy, this revision form is not necessary. When these “**stand-alone**” courses have been approved by the College Curriculum Team and noted in CMS, the CMS College Administrator should send a list to Lucero Carvajal in ACS. The same May 31 deadline applies.
- All changes to courses are completed via the Curriculum Management System (CMS) <https://midas.fgcu.edu/acadaff/scns/default.asp>
- **Reminder:** The prefix/number for a new course is handled one way in the catalog copy and another in CMS. In the catalog copy, identify a new course with the suggested title, suggested prefix and course level, plus XXX (e.g, ART 4XXX). When final approval for the course prefix/number is received from Statewide Course Numbering System, the catalog copy will be updated. In CMS, a new course is requested by entering the suggested title and suggested prefix/number with no XXX. See instructions in CMS for selecting an appropriate suggested prefix/number.

1. Minor Title:

**Environmental Engineering Minor**

2. Contact person: Simeon Komisar

College: WCE

Department/School: Environmental and Civil Engineering

Telephone: 239-590-1315

3. Briefly describe the proposed revision(s).

To accommodate changes in the Environmental Engineering major curriculum and make it simpler and easier to obtain a minor in Environmental Engineering, the Environmental Engineering Faculty have altered the definition of the minor.

The minor is now 1 common pre-req course and 4 additional courses as shown below. The course *Sustainability in Engineering* is now a required class for both degree programs and thus cannot be counted as part of the additional 4 courses towards the minor.

Required:

**Env 3006C Fundamentals of Environ Engrg** (required common pre-requisite course)  
**EES 4102C Wastewater Microbiology** (required, currently taught for the major, added to the minor)  
**EES 3204C Environ Chem for Engineers** (required)

Choose two from the following list:

**ENV 4341C Solid & Hazardous Waste Mgmt**

(note: this replaces/combines ENV 4351C Solid Waste Mgmt and ENV 4330C Hazardous Waste Remediation in previous templates. These courses are being deleted. It will be a Fall class)

**ENV 3502C Water Treatment Engineering**

**ENV 4101C Atmospheric Pollution**

**ENV 4509C Wastewater Engineering**

4. Effective date: Fall 2021

5. Briefly explain the rationale for the proposed revision to include its educational and occupational goals.

To accommodate changes in the Environmental Engineering major and make it simpler and easier to obtain a minor in Environmental Engineering, faculty have altered the definition of the minor to be 3 required courses and two additional restricted electives within Environmental Engineering.

We have added the existing course EES 4201C Wastewater Microbiology to the list of courses required for the minor. The three required courses, then, provide a comprehensive overview of the key topics and sub-specialties in the environmental field, enabling students without a major in Environmental Engineering to pursue meaningful entry level employment or advanced degrees in the field.

The choice of two additional courses from a list of restricted elective courses in Environmental Engineering will provide enough depth to ensure that student's grasp of the discipline is broad enough to provide a solid underpinning for further study or occupational experience. The list has been altered to reflect the changes being made to the major in Environmental Engineering. We have combined two of the possible restricted elective courses -- ENV 4351C Solid Waste Mgmt and ENV 4330C Hazardous Waste Remediation -- into one course: ENV 4341C Solid & Hazardous Waste Mgmt.

In addition, we have altered the pre-requisites for the Environ Chem for Engineers class (EES 3204C) to eliminate Chem II, which was not justified intellectually but was put in place to control enrolment numbers, and is not required of other engineering majors, particularly Civil Engineering. This change makes that class accessible to Civil Engineering majors who were seeking the Environmental minor who couldn't afford to take an extra chemistry course in their already crowded schedule. We also are changing the minor to reflect that Sustainability in Engineering is now a required course for Civil students, who make up nearly 100% of the students pursuing the minor, and thus is not one of the restricted elective choices.

6. Describe additional library resources needed to support this revision? Explain rationale for response, even if answer is None.

Resources are adequate, courses are all currently taught

7. Describe additional faculty resources needed to support this revision? Explain rationale for response, even if answer is None.

Resources are adequate, courses are all currently taught

8. Describe additional technology, facility, laboratory, or other resources needed to support this revision? Explain rationale for response, even if answer is None.

Resources are adequate, courses are all currently taught

9. What impact will the proposed revision have on other colleges, units, or programs?

Please search current online catalog to determine if other colleges, units, or programs use courses that are part of this proposal and need to be notified of any changes.

No other programs will be negatively impacted.

10. New courses:

No brand new courses are needed.

List prefix/number/title below. Complete a Course Add Form for each from the Curriculum Management System - <https://midas.fgcu.edu/acadaff/scns/>.

11. Change to existing courses:

One pre-requisite change is being enacted. One course in being reactivated.

Existing courses are being changed. List prefix/number/title below. Complete a Course Change Form for each from the Curriculum Management System - <https://midas.fgcu.edu/acadaff/scns/>

EES 3204C Environ Chem for Engineers

ENV 4341C Solid & Hazardous Waste Mgmt

12. Termination of existing courses:

Courses are being terminated. List prefix/number/title below. Complete a Course Terminate Form for each course from the Curriculum Management System - <https://midas.fgcu.edu/acadaff/scns/>.

ENV 4351C Solid Waste Mgmt

ENV 4330C Hazardous Waste Remediation

13. What impact will the proposed revision have on the progression or sequencing of courses in this Minor?

Changes will not impact the course sequencing

14. Catalog copy:

Please see Instructions above.

15. Additional remarks:

---

**APPROVALS** (required prior to submission)

Email accepted in lieu of signatures in proposal due to COVID19

Department/Program Chair/Director \_\_\_\_\_ Date \_\_\_\_\_

College Curriculum Committee Chair \_\_\_\_\_ Date \_\_\_\_\_

College Dean \_\_\_\_\_ Date \_\_\_\_\_

---

Does another department or unit provide related expertise or offer similar courses?  No  Yes *(If yes, have the other department complete the following. Attach a separate sheet if needed.)*

Department/Unit: \_\_\_\_\_

Supports this proposal  Does not support this proposal  Defers Recommendation

Authorizing signature: \_\_\_\_\_ Date \_\_\_\_\_

Comments:

---

---

**20202021-2021-2022 Catalog Year**

***Majors in Environmental Engineering are not eligible for the minor in Environmental Engineering.***

**Admission Requirements**

- Students must meet with a college advisor to declare a minor and review the course requirements.
- A grade of C or higher is required in all courses for the minor.
- A minimum of 12 credit hours of the minor must be completed at FGCU.
- Students desiring certification of a minor and designation on their academic transcript must:
  - Note the minor on the Application for Graduation.
  - Contact a college advisor to certify completion of all course requirements for the declared minor as listed below.

**Requirements**

**Complete the following:**

- EES 3204C Environ Chem for Engineers (3)
- EES 4102C Wastewater Microbiology (3)
- ENV 3006C Fundamentals of Environ Engrg (3)
- ~~EES 3204C Environ Chem for Engineers (3)~~
- ~~ENV 3006C Fundamentals of Environ Engrg (3)~~

**Complete ~~three~~two of the following:**

- ENV 4101C Atmospheric Pollution (3)
- ENV 4341C Solid & Hazardous Waste Mgmt (3)
- ENV 4509C Wastewater Engineering (3)
- ENV 3502C Water Treatment Engineering (3)
- ~~ENV 4101C Atmospheric Pollution (3)~~
- ~~ENV 4330C Hazardous Waste Remediation (3)~~
- ~~ENV 4351C Solid Waste Management (3)~~
- ~~ENV 4509C Wastewater Engineering (3)~~

**TOTAL CREDITS REQUIRED: 15**

**Transfer Notes and Acceptable Substitutes**

Transfer credits will ordinarily be accepted from regionally accredited institutions and evaluated for appropriate credit toward requirements in the student's degree program.