

## Undergraduate Major Map

**Catalog Year** 2023  
**College / School** Engineering  
**Major** Environmental Engineering - BS  
**Track / Concentration**  
**Career Path** Four Year Freshman

<b>Fall Term 2023</b> Math placement is based on ALEKS scores. The College of Engineering and Computing requires placement into MAC 2311 to be accepted into the Environmental Engineering program. If you do not place into MAC2311, see your advisor to discuss appropriate courses and major requirements.					<b>Term GPA:</b> 2 <b>Term Hours:</b> 15 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
UCC First Year Experience	SLS 1501	First Year Exper	1		
UCC Communication	ENC 1101	Writing and Rhetoric I	3		
UCC Natural Science Group One	CHM 1045	Gen Chemistry I	3	Also satisfies UCC Natural Science Group 1. (1) See Endnotes	
UCC Natural Science Group One	CHM 1045L	Gen Chem Lab I	1	Also satisfies UCC Natural Science Group 1 Lab. (1) See Endnotes	
UCC Mathematics Group One	MAC 2311	Calculus I	4	Also satisfies UCC Mathematics Group 1. (1) See Endnotes	
UCC Social Science Group One			3	(1) See Endnotes	

<b>Spring Term 2024</b>					<b>Term GPA:</b> 2 <b>Term Hours:</b> 16 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Major Physical Sciences	CHM 1046	Gen Chemistry II	3		
Major Physical Sciences	CHM 1046L	Gen Chem Lab II	1		
UCC Communication	ENC 1102	Writing and Rhetoric II	3		
UCC Mathematics Group Two	MAC 2312	Calculus II	4	Also satisfies UCC Mathematics - Group Two course. (1) See Endnotes	
UCC Natural Science Group One	PHY 2048	Physics W/Calculus I	4	Also satisfies UCC Natural Science - Group One requirement. (1) See Endnotes	
UCC Natural Science Group One	PHY 2048L	General Phys Lab I	1	Also satisfies UCC Natural Science - Group One lab requirement. (1) See Endnotes	

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<b>Summer Term 2024</b>				Term GPA: 2
Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See Endnotes				Term Hours: 7
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biological Sciences	BSC 2010	General Biology I	3	Also satisfies UCC Natural Science - Group One requirement. (1) See endnotes
Biological Sciences	BSC 2010L	Gen Biology Lab I	1	Also satisfies UCC Natural Science - Group One lab requirement. (1) See endnotes
UCC Arts			3	(1) See endnotes - SPC2608 recommended

<b>Fall Term 2024</b>				Term GPA: 2
PHY2049 Lab is not required for this program.				Term Hours: 15
EGS1041 may be used to satisfy the Global Learning and UCC Social Science - Group Two requirement. (2) See Endnotes				
Course Group	Course Required	Course Description	Credit Hours	Course Notes
UCC Mathematics Group Two	MAC 2313	Multivariable Calc	4	
UCC Natural Science - Group Two	PHY 2049	Physics W/Calc II	4	
Engineering Drawing	EGN 1110C	Engineering Drawing	3	Course required if not previously taken.
General Core Required	EGS 2030	Ethics/Legal Aspects	1	
UCC Social Science Group Two			3	(1), (2) See endnotes - EGS1041 recommended to also satisfy Global Learning Foundations requirement

<b>Spring Term 2025</b>				Term GPA: 2
ENV 3001 may be used to satisfy the Global Learning requirement. (2) See Endnotes				Term Hours: 14
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
General Core Required	CGN 2420	Computer Tools for Eng	3	
Required Courses	ENV 3001	Intro Enviro Engrng	3	This course may be used to satisfy the Global Learning requirement. (2) See Endnotes
Required Courses	ENV 3001L	Envir Lab I	1	
Major Mathematics	MAP 2302	Differential Equat	3	
General Electives	EGM 3503	Applied Mechanics	4	

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<b>Summer Term 2025</b>				Term GPA: 2
Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See Endnotes				Term Hours: 4
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Earth Sciences			3	Check Catalog and/or PDA for courses that satisfy this requirement. Can be used to satisfy UCC Natural Science Group 2 requirement. (1) See Endnotes
Earth Sciences			1	Check Catalog and/or PDA for courses that satisfy this requirement. Can be used to satisfy UCC Natural Science Group 2 requirement. (1) See Endnotes

<b>Fall Term 2025</b>				Term GPA: 2
				Term Hours: 14
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Engineering Sciences	CWR 3201	Fluid Mechanics	3	
Engineering Sciences	CWR 3201L	Fluid Mechanics Lab	1	
Engineering Sciences	EGN 3343	Thermodynamics I	3	
Major Mathematics	STA 3033	Prob & Stat For Cs	3	
General Electives	ENV 3081	Career Orientation and Pro M	1	
UCC Humanities Group One			3	Recommended: AMH 2020 Satisfies GRW (1) (5) See Endnotes

<b>Spring Term 2026</b>				Term GPA: 2
				Term Hours: 15
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Required Courses	CWR 3540	Water Resources Eng.	3	
Required Courses	ENV 4513	Chem Env Eng	3	
General Core Required	ENC 3213	Prof and Tech Writing	3	
Required Courses	ENV 4351	Solid Haz Waste Mangmt	3	
Required Courses	ENV 4551	Wastewater Trtmt Eng	3	

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<b>Summer Term 2026</b>				Term GPA: 2
Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See Endnotes				Term Hours: 7
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biological Sciences			3	Check Catalog and/or PDA for courses that satisfy this requirement
Biological Sciences			1	Check Catalog and/or PDA for courses that satisfy this requirement
UCC Humanities - Group Two			3	Recommended: ARC 2701 or WOH 2001 Satisfies GRW (1) (5) See Endnotes

<b>Fall Term 2026</b>				Term GPA: 2
				Term Hours: 13
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Required Courses	ENV 4005L	ENV Lab II	1	
Required Courses	ENV 4401	Water Supply Engrg	3	
General Core Required	EGN 3613	Engineering Economy	3	
Suggested Electives			3	Check Catalog and/or PDA for courses that satisfy this requirement
Suggested Electives			3	Check Catalog and/or PDA for courses that satisfy this requirement

<b>Spring Term 2027</b>				Term GPA: 2
				Term Hours: 10
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Required Courses	ENV 4101	Air Pollution Engr	3	
Suggested Electives			3	Check Catalog and/or PDA for courses that satisfy this requirement.
Required Courses	ENV 4891	ENV Senior Design	3	
EnvE Seminar	ENV 4960	Environmental Eng Seminar	1	

<b>Summer Term 2027</b>				Term GPA: 2
Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See Endnotes				Cum GPA: 2

## General Requirements

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\*Critical Indicator is the minimum grade indicated in specific courses to demonstrate proficiency and progress in major. Earning less than the minimum grade is a trigger for a conversation with advisor\*

### GENERAL UNIVERSITY REQUIREMENTS

See your Panther Degree Audit (PDA) for a real-time update on your academic career progress and additional information on University and major requirements at <http://my.fiu.edu>

(1) UCC: Students must meet the University Core Curriculum (UCC) requirements. For a full list of UCC courses, see <http://undergrad.fiu.edu/advising/university-core-curriculum.html> or speak with your advisor. Students requesting to be transient must receive permission from the Dean of Undergraduate Education.

(2) Global Learning: Freshmen entering FIU Summer B 2010 or later must take at least two Global Learning (GL) designated courses at FIU. See <http://goglobal.fiu.edu>. Courses must be:

- 1 GL foundation course, which must be taken from the University Core Curriculum (UCC).
- 1 GL discipline-specific course (3000/4000 level)

(3) Summer Hours Requirement: All students entering FIU or any university within the State University System (SUS) of Florida with fewer than 60 credit hours are required to earn at least nine credit hours prior to graduation by attending one or more summer terms at a university in the SUS.

(4) Gordon Rule: All Gordon Rule courses (i.e., UCC Communication, UCC Mathematics, and Gordon Rule with Writing (GRW) courses) must be completed with a minimum grade of "C". This requirement must be fulfilled within the first 60 credits. Students are required to complete at least two Gordon Rule with Writing (GRW) designated courses.

(5) Foreign Language Requirement for Graduation (FLENT/FLEX): A student who did not complete two years of the same foreign language in high school or at a post-secondary institution must successfully complete 8-10 credit hours of instruction in one foreign language prior to graduation. Exceptions include appropriate CLEP, AP, IB, TOEFL, or transfer credit. Contact your advisor for more information.

(6) UCC Mathematics: Math courses are categorized into either Group One or Group Two. One math course from each group is required unless the first math taken is from Group Two and has an immediate prerequisite in Group One. In this case, students will take two Math courses from Group Two. However, one of the two Math courses must have a MAC, MGF, or MTG prefix.

This document only lists SELECTED requirements. See your Panther Degree Audit for a full list of UCC and major requirements at <http://my.fiu.edu>.

### College of Engineering and Computer Science: Selected Major Requirements

Grades: A minimum grade of 'C' is required in all writing courses, physics, chemistry, biology, and mathematics courses. A minimum grade of 'C' is required of all Environmental Engineering courses and prerequisite courses. This document only lists SELECTED requirements. See your Panther Degree Audit for a full list of College of Engineering and major requirements at <http://my.fiu.edu>.

\* Choose 1 Earth Science Elective with corresponding lab (e.g. GLY 1010 + GLY 1010L; GLY 3039 + GLY 3039L). See Catalog or Panther Degree Audit for a full list of options.

\*\* Choose 1 Biology Elective with corresponding lab (e.g. EVR 3013 + EVR 3013L; MCB 2000, MCB 2000L). See Catalog or Panther Degree Audit for full list of options.

\*\*\* Choose 3 Technical Electives (e.g. CEG4011, CGN 4321). See Catalog or Panther Degree Audit for full list of options.

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