

## Undergraduate Major Map

**Catalog Year** 2016  
**College / School** Undergraduate Education  
**Major** Exp-Physical Sci/Engineer  
**Track / Concentration**  
**Career Path** Exploratory

### Fall Term 2016

**Term Hours:** 14

Math placement is based on ALEKS scores and classes are to be selected in consultation with an advisor.

Students with math scores below old SAT (440), new SAT (24), or ACT (19) are required to take the PERT in lieu of ALEKS.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC First Year Experience	SLS 1501	First Year Exper	1		
UCC Natural Science Group One - CHM1045, 1045L	CHM 1045	Gen Chemistry I	3	C	Placement in CHM 1045 is based on ALEKS scores. Cannot be taken if student places in to MAT 1033 (Consult with Advisor for Clarification). Take Lecture with corresponding Lab (1) See Endnotes
UCC Communication	ENC 1101	Writing and Rhetoric I	3		
General Electives	SLS 1402	Discover Your Major	1		
General Electives			2		EGS 1060 or ENG 1100 for Engineering
UCC Natural Science Group One - CHM1045, 1045L	CHM 1045L	Gen Chem Lab I	1	C	Placement in CHM 1045L is based on ALEKS scores (Consult with Advisor for clarification). Take Lab with corresponding Lecture. (1) See Endnotes
UCC Mathematics Group One			3	B	(1) See Endnotes. MAT 1033 (Does not satisfy UCC), MAC 1105, MAC 1140, MAC 1114, MAC 1147, or MAC 2311

### Spring Term 2017

**Term Hours:** 13

EGN 1033 may be used to satisfy the Global Learning requirement. (2) See Endnotes

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Communication	ENC 1102	Writing and Rhetoric II	3	C	
Additional Courses	CHM 1046L	Gen Chem Lab II	1		
UCC Mathematics Group Two			3	B	MAC 1105, MAC 1140 (Does not satisfy UCC), MAC 1114, MAC 1147, or MAC 2311. (1) See Endnotes
UCC Social Science Group One			3		Consult with Advisor
Additional Courses	CHM 1046	Gen Chemistry II	3		Consult with Advisor. Not required for all Engineering Majors

## Undergraduate Major Map

<b>Summer Term 2017</b>					<b>Term Hours: 6</b>
Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Mathematics Group One			3		Consult with Advisor. (1) See Endnotes
UCC Arts	SPC 2608	Public Speaking	3		SPC 2608 is required for most engineering majors. Satisfies UCC Art Requirement

<b>Fall Term 2017</b>					<b>Term Hours: 12</b>
Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Mathematics Group Two			3	B	Consult with Advisor. (1) See Endnotes
UCC Natural Science Group One - BSC 1010, 1010L	BSC 1010	General Biology I	3		If pursuing Chemistry BA, Physics, Environmental, or Biomedical Engineering. Take Lecture with corresponding Lab
UCC Natural Science Group One - BSC 1010, 1010L	BSC 1010L	Gen Biology Lab I	1		If pursuing Chemistry BA, Physics, Environmental, or Biomedical Engineering. Take Lab with corresponding Lecture
UCC Natural Science Group One - PHY2048, 2048L	PHY 2048	Physics W/Calculus I	4	C	Prerequisite: MAC 2311
UCC Natural Science Group One - PHY2048, 2048L	PHY 2048L	General Phys Lab I	1	C	

### General Requirements

Freshmen Students must choose a major by the time they reach 45 credits. Transfer students must choose a major by the end of their first semester at FIU.

\*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:

## Undergraduate Major Map

---

- 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.