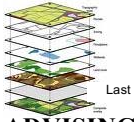


GIS

BACHELOR OF SCIENCE PROGRAM GUIDE – Fall 2017



NAME: _____, _____

BANNER ID: _____ DATE: _____

Last

First

mm/dd/yyyy

ADVISING DATE: _____ ADVISED BY: _____ ANTICIPATED GRADUATION: _____
mm/dd/yyyy

GRADUATION REQUIREMENTS (minimum) MINOR and/or CONCENTRATION: _____

- 2.00 Overall G.P.A.
- **2.5** Major G.P.A.
- GIS BS majors must complete all GIS Courses with a 'C' or better.
- **Seniors should meet with the advisement coordinator before applying for graduation.**

GENERAL EDUCATION REQUIREMENTS (min 43 s.h.) *choose from Approved **Gen Ed Guide** – *Italics indicate prerequisites*

COMMUNICATIONS BANK - minimum 6 s.h.

6 S.H.

Course #	Course Name	Notes	Sem. Planned	Sem. Completed	Grade	Credits
#1	COMP 01111	College Comp I				3 s.h.
#2	COMP 01112	College Comp II <i>*College Comp I</i>				3 s.h.

SCIENCE/MATHEMATICS BANK - minimum 7 s.h.

7 S.H.

Course #	Course Name	Notes	Sem. Planned	Sem. Completed	Grade	Credits
#3		<i>Course from Mathematics Bank</i>				3 s.h.
#4		<i>Lab Science</i>				4 s.h.

SOCIAL & BEHAVIORAL SCIENCES BANK - minimum 9 s.h.

9 S.H.

Course #	Course Name	Notes	Sem. Planned	Sem. Completed	Grade	Credits
#5						3 s.h.
#6						
#7						

HISTORY/HUMANITIES/LANGUAGE BANK - minimum 9 s.h.

9 S.H.

Course #	Course Name	Notes	Sem. Planned	Sem. Completed	Grade	Credits
#8						
#9						
#10						

NON-PROGRAM COURSES - minimum 6 s.h.

6 S.H.

Course #	Course Name	Notes	Sem. Planned	Sem. Completed	Grade	Credits
#11						
#12						

ROWAN EXPERIENCE REQUIREMENTS (at least one course completed with the following approved RE designation)

	Course #	Course Name / Notes	Sem. Planned	Sem. Completed	Grade	Credits
#13	(PS) Public Speaking * <i>Comp I & II</i>	CMS 04205				3 s.h.
#14	(ACE) Artistic/Creative Experience					3 s.h.
#15	(LIT) Broad Based Literature Course					
#16	(WI) Writing Intensive Course					
#17	(M/G) Multicultural/Global Course					
#18	(LAB) Lab Science Course					
#19	(RS) Rowan Seminar– <i>Freshmen Only</i>					
#20						

♦ NOTE: M/G, LIT, ACE, WI and RS courses, if taken within the major program of study, CAN NOT COUNT towards the minimum total of Gen Ed 42 credits.

NOTES:

Bachelor of Science, GIS

MAJOR REQUIREMENTS

TOTAL 61-63 S.H.

Introductory Geography Requirements: Take two of the following three courses.

6 S.H.

	Course #	Course Name	Notes	Sem. Planned	Sem. Completed	Grade	Credits
#21	GEOG 16100	Earth, People and Environment					3 s.h.
#22	GEOG 16110	Cultural Geography					3 s.h.
#23	GEOG 16140	World Regional Geography					3 s.h.

Geography Core Requirements: Take the following four courses.

12 S.H.

	Course #	Course Name	Notes	Sem. Planned	Sem. Completed	Grade	Credits
#24	GEOG 16160	Intro to Mapping and GIS					3 s.h.
#25	GEOG 16290	History & Methods of Geography					3 s.h.
#26	GEOG 16390	Geo Research Clinic or Internship					3 s.h.
#27	GEOG 16490	Senior Seminar in Geography- <i>WI</i>					3 s.h.

Quantitative Courses: Take two of the following courses (6-8 s.h.)

	Course #	Course Name	Notes	Sem. Planned	Sem. Completed	Grade	Credits
#28	CS 01104	Intro to Sci. Programming - Python					
#29							

Suggested Courses:

STAT 02260 Statistics I

STAT 02261 Statistics II -- prerequisite: STAT 02260

CS 04103

MATH 01130

MATH 01131

Computer Science and Programming

Calculus I

Calculus II - -prerequisite : MATH 01130

GIS Core Requirements: Must take the following six courses

19 S.H.

	Course #	Course Name	Notes	Sem. Planned	Sem. Completed	Grade	Credits
#30	GEOG 16260	Fundamentals of GIS					4 s.h.
#31		<i>*GEOG 16160</i>					
#32	GEOG 16360	Applications of GIS					3 s.h.
		<i>*GEOG 16260</i>					
#33	GEOG 16365	Geospatial Measurement and Env. Modeling					3 s.h.
		<i>*GEOG 16160</i>					
#34	GEOG 16261	Cartography					3 s.h.
		<i>*GEOG 16160</i>					
#35	GEOG 16375	Drones, Planes, and Satellites					3 s.h.
		<i>*GEOG 16160</i>					
	GEOG 16350	Quantitative Methods in Geography					3 s.h.

Must complete two additional courses (6 S.H.) from the GIS bank or alternate course offered within the department chosen in consultation with the GIS Program Director.

GIS Core Electives

6 S.H.

	Course #	Course Name	Notes	Sem. Planned	Sem. Completed	Grade	Credits
#36							
#37							

Choose **four** classes in consultation with the GIS Program Director. In order to gain a focuses specialization, it is highly recommended that courses chosen contribute to completing a minor or concentration. Some of the fields which make excellent compliments to a BS in GIS include but are not limited to the following: Computer Science Minor, Economics Minor, Environmental Studies Minor, Geoscience Concentration, Law Justice Minor, Planning Minor, Urban Studies Concentration, MIS Minor.

Program Electives

12 S.H.

Course #	Course Name	Notes	Sem. Planned	Sem. Completed	Grade	Credits
#38						
#39						
#40						
#41						

Major Requirements.....61-63 S.H.
Free Electives.....18 S.H.
General Education and Rowan Experience (see other side).....43 S.H.
Total Credits in Program.....122-124 S.H.

- ◆ This information has been provided by the department listed above as of the date listed in the title and is subject to change.
- ◆ To declare this major go to the University Advising Center in Savitz Hall.

Suggested Course Sequence

Bachelor of Science, GIS

Year I (courses that should normally be taken in the freshman year)

Fall	Spring
College Comp I General Education Course General Education Course (1 of 2 Intro to Geography Courses) Intro to Mapping and GIS	College Comp II General Education Course General Education Course (1 of 2 Intro to Geography Courses) (1 of 2 Quantitative Courses)

Year II (courses that should normally be taken in the sophomore year)

Fall	Spring
Public Speaking General Education Course General Education Course GIS Core Course (1 of 2 Quantitative Courses)	Artistic/Creative Experience General Education Course General Education Course GIS Core Course The History and Methods of Modern Geog.

Year III (courses that should normally be taken in the junior year)

Fall	Spring
General Education Course Free Elective GIS Core Course GIS Core Course GIS Elective Course	General Education Course Free Elective GIS Core Course GIS Core Course GIS Elective Course

Year IV (courses that should normally be taken in the senior year)

Fall	Spring
Free Elective Free Elective Program Elective Program Elective Geography Research Clinic/Studio or Internship	Free Elective Free Elective Program Elective Program Elective Senior Seminar in Geography - WI

* One of the courses required for first semester freshmen must be a Rowan Seminar course.