## **CIVIL ENGINEERING**

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING



# 4-YEAR ADVISING SCHEME

Students seeking the Bachelor of Science in Civil Engineering must complete a minimum of 120 credit hours comprised of core courses in engineering (66 credits), science and mathematics courses (35 credits), free electives (3 credits), social science and humanities courses (6 credits), an African American Studies elective (3 credits), and general curriculum courses (7 credits).

## **FALL SEMESTER 1**

Number	Course Title		Credits
EGPP 101	Intro to Engineering		2
MATH 156	Calculus I		4
ENGW	English First-Year Writing (1)		3
CHEM 003	General Chemistry I Lecture		4
CHEM 005	General Chemistry I Lab		1
		Total Credits	14

#### **SPRING SEMESTER 1**

Number	Course Title	Credits
CIEG 104	Civil Engineering Software and Design	3
MATH 157	Calculus II	4
ENGW	English First-Year Writing (2)	3
PHYS 013	Physics I Lecture (Science and Engineering)	3
PHYS 023	Physics I Lab (Science and Engineering)	1
	ROTC/Physical Education	1
	Total Credits	s 15

#### **FALL SEMESTER 2**

Ν	umber	Course Title	Credits
		Basic Science Elective	3
CI	EG 202	Statics	3
М	ATH 158	Calculus III	4
Ы	HYS 014	Physics II Lecture (Science and Engineering	) 3
Ы	HYS 024	Physics II Lab (Science and Engineering)	1
		Total Credits	5 14

#### **SPRING SEMESTER 2**

Number	Course Title	(	Credits
	Humanities		3
CIEG 302	Dynamics		3
CIEG 351	Probability and Statistics		3
MATH 159	Differential Equations		4
MEEG 209	Materials Science		3
		T	16
		Total Credits	16

#### **FALL SEMESTER 3**

Number	Course Title		Credits
CIEG 207	Environmental Engineering I		3
CIEG 301	Mechanics of Materials Lecture		3
CIEG 303	Mechanics of Materials Lab		1
CIEG 311	Fluid Mechanics Lecture		3
CIEG 313	Fluid Mechanics Lab		1
	Social Science Elective		3
	Free Elective		3
		<b>Total Credits</b>	17

## **SPRING SEMESTER 3**

Number	Course Title	C	Credits
CIEG 314	Basic Structural Analysis		3
CIEG 354	Engineering Economics		3
CIEG 352	Water Resources Engineering		3
CIEG 416	Transportation Engineering		3
CIEG 434	Soil Mechanics Lecture		3
CIEG 438	Soil Mechanics Lab		1
		Total Credits	16

## **FALL SEMESTER 4**

Number	Course Title		Credits
CIEG 439	Senior Design I		2
CIEG	CIEG Discipline Elective 1		3
CIEG	CIEG Discipline Elective 2		3
CIEG	CIEG Discipline Elective 3		3
CIEG 464	Engineering Project Manageme	ent	3
			<b>.</b> ,
		Total Credits	5 14

## **SPRING SEMESTER 4**

Number	Course Title	Credits
CIEG 441	Senior Design II	2
CIEG	CIEG Discipline Elective 4	3
	Technical Elective 1	3
	Technical Elective 2	3
	African American Studies Elective	3
	Total Credit	s 14
	Total Credit	5 14

**Total Credits: 120** 

#### | More Information :

The 4-Year Advising Scheme is a guide for students to successfully complete the program in four years of study. It is not a substitution for academic advising. Students are expected to check-in with their academic advisor every semester.

The prerequisite structure for courses and technical elective options are available in the program handbook.

Courses may not be offered in semesters in which they do not appear listed on the scheme.