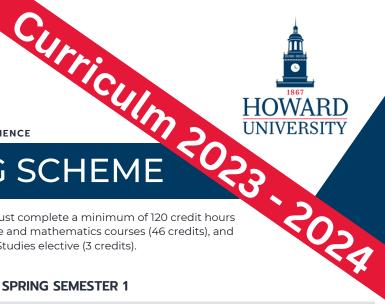
# COMPUTER **ENGINEERING**

**BACHELOR OF SCIENCE** 

DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE



# 4-YEAR ADVISING SCHEME

Students seeking the Bachelor of Science in Computer Engineering must complete a minimum of 120 credit hours comprised of core courses in computer engineering (56 credits), science and mathematics courses (46 credits), and general curriculum courses (18 credits), including an African American Studies elective (3 credits).

#### **FALL SEMESTER 1**

Number	Course Title		Credits
MATH 156	Calculus I		4
EGPP 101	Intro to Engineering		2
CSCI 135	Computer Science I		4
CHEM 003	General Chemistry I Lecture		4
CHEM 005	General Chemistry I Lab		1
		Total Credits	15

#### **SPRING SEMESTER 1**

Number	Course Title	Credits
MATH 157	Calculus II	4
EECE 102	Intro to Electrical & Computer Engineering	1
EECE 260	Engineering Programming and Application	3
PHYS 013	Physics I Lecture (Science and Engineering)	3
PHYS 023	Physics I Lab (Science and Engineering)	1
MATH 181	Discrete Structures	3
	Total Credits	: 15
	Total Cicalis	, 10

#### **FALL SEMESTER 2**

Number	Course Title	Credits
MATH 158	Calculus III	4
PHYS 014	Physics II Lecture (Science and Engineering	) 3
PHYS 024	Physics II Lab (Science and Engineering)	1
EECE 212	Fundamentals of Digital Systems	4
EECE 218	Fundamentals of Digital Systems Lab	1
MATH 159	Differential Equations	4
	Total Credit	s 17

#### **SPRING SEMESTER 2**

Number	Course Title	Credits
EECE 160	Engineering Mathematics	4
EECE 203	Fundamentals of Circuit Theory	4
EECE 209	Fundamentals of Circuit Theory Lab	1
EECE 406	Advanced Digital Systems Design	3
EECE 412	Advanced Digital Systems Design Lab	1
	Total Condita	. 17
	Total Credit	s 13

#### **FALL SEMESTER 3**

Number	Course Title	Credits
EECE 305	Fundamentals of Electromagnetics	4
EECE 306	Fundamentals of Electromagnetics Lab	1
EECE 309	Fun of Electronics and SS Devices	4
EECE 312	Fund of Electronics and SS Devices Lab	1
EECE 331	Probability and Statistics for Eng. Appl	3
ENGW	English First-Year Writing (1)	3
	Takal Consilla	16
	Total Credit	s 16

## **SPRING SEMESTER 3**

Number	Course Title	Credits
EECE 333	Fundamentals of Signals and Systems	4
EECE 416	Microcomputer Design	3
EECE 410	Intro to Computer Networks	3
	African American Studies Elective	3
ENGW	English First-Year Writing (2)	3
	Tatal Cuadita	16
	Total Credits	5 16

### **FALL SEMESTER 4**

Number	Course Title	(	Credits
CSCI 201	Computer Organization I		3
EECE 420	Introduction to VLSI Design		3
EECE 424	Introduction to VLSI Design Lab		1
EECE 401	Senior Design I		3
	Social Science Elective		3
		Total Credits	13

### **SPRING SEMESTER 4**

Number	Course Title	C	Credits
	CpE Elective		3
	Humanities Elective		3
	Math/Science Elective		3
EECE 404	Senior Design II		3
ECON 001	Principles of Economics		3
		Total Credits	15

**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.