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 |  |

## 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 Credits |
|  |  | 17 |

## 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 |
|  |  | Total Credits |
|  | 16 |  |

## FALL SEMESTER 4

| Number | Course Title | Credits |
| :--- | :--- | :---: |
| EECE 417 | Computer System Architecture I | 3 |
| EECE 420 | Introduction to VLSI Design | 3 |
| EECE 424 | VLSI Design Lab | 1 |
| EECE 401 | Senior Design I | 3 |
| -- Social Science Elective | 3 |  |
|  |  |  |
|  |  | Total Credits |

## SPRING SEMESTER 1

| Number | Course Title | Credits |
| :--- | :--- | :---: |
| MATH 157 | Calculus II | 4 |
| EECE 102 | Intro to EE and CpE | 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 |

## 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 | 3 |
| EECE 412 | Advanced Digital Systems Lab | 1 |

## 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 |
|  |  |  |
|  |  | Total Credits |
|  | 16 |  |

## SPRING SEMESTER 4

| Number | Course Title | Credits |
| :--- | :--- | :---: |
| -- | EE/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 |

## 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.

