Computer Engineering 2024-2025
Digital VLSI Circuits Track

**PREREQUISITE:**

MAC 1140 & MAC 1114 - C or better grades

**COREQUISITE:**

MAC 2311**
Calculus I (4)

MAC 2312**
Calculus II (4)

MAC 2313**
Calculus III (4)

MAP 2302**
Differential Equations (3)

STA 3032
Probability / Statistics (3)

**PHY 2048 & PHY 2048L
Physics for Eng 1 & Lab (4)

**PHY 2049 & PHY 2049L
Physics for Eng 2 & Lab (4)

EEL 3004C**
Linear Circuits I (3)

EEL 3123C**
Linear Circuits II (3)

EEE 3307C
Electronics I (4)

EEE 3342C**
Digital Systems (3)

EEE 3801C**
Computer Organization (4)

EEL 4768
Computer Architecture (3)

EEL 4781
Comp Comm Networks (3)

EEL 4914
Senior Design I (3)

EEL 4915L
Senior Design II (3)

**PHY 2048 & PHY 2048L
Physics for Eng 1 & Lab (4)

**PHY 2049 & PHY 2049L
Physics for Eng 2 & Lab (4)

EGN 3420**
Engineering Analysis (3)

EGN 3211**
Engineering Analysis and Computation (3)

EEE 3342C**
Digital Systems (3)

EEL 3004C**
Linear Circuits I (3)

EEL 3123C**
Linear Circuits II (3)

EEE 3307C
Electronics I (4)

EEL 4768
Computer Architecture (3)

EEL 4781
Comp Comm Networks (3)

EEL 4914
Senior Design I (3)

EEL 4915L
Senior Design II (3)

High School Chemistry or Chemistry Placement

CHS 1440**
Principles of Chemistry (4)

EGN 3211**
Engineering Analysis and Computation (3)

EGN 3420**
Engineering Analysis (3)

EEE 3307C
Electronics I (4)

EEL 4914
Senior Design I (3)

EEL 4915L
Senior Design II (3)

Select 2 Senior Electives

All courses with “***” require a grade of C (2.0) or better.
Computer Engineering 2024-2025
Digital VLSI Circuits Track

Semester 1
- MAC 1140 & MAC 1114 - C or better grades
  - MAC 2311** Calculus I (4)
  - MAC 2312** Calculus II (4)
  - EGN 3211** Engineering Analysis and Computation (3)
  - CHS 1440** Principles of Chemistry (4)
  - EGS 1006C Intro to Engineering (1)

Semester 2
- **PHY 2048 & **PHY 2048L Physics for Eng 1 & Lab (4)
  - MAC 2313** Calculus III (4)
  - EGE 3042** Engineering Analysis (3)
  - EGE 3342C Digital Systems (3)

Semester 3
- MAC 2302** Differential Equations (3)
  - EGE 3342C Digital Systems (3)
  - COP 3330** Object Oriented Prog (3)

Semester 4
- MAC 2313** Calculus III (4)
  - COP 3502C Computer Science I (3)
  - COP 3503C Computer Science II (3)

Semester 5
- STA 3032 Probability / Statistics (3)
  - EGE 3342C Digital Systems (3)

Semester 6
- **PHY 2048 & **PHY 2048L Physics for Eng 2 & Lab (4)

Semester 7
- EGE 3042** Engineering Analysis (3)
  - EGE 3801C Computer Organization (4)

Semester 8
- EGE 3304C Linear Circuits I (3)
  - MAC 2313** Calculus III (4)
  - COP 4600 or COP 3503C
  - EGE 4346C (3)

Select 2 Senior Electives
- EEL 4783 (3) PR: EEE 3342C
- EEL 4798 (3) PR: EEL 3801C
- EEE 4334 (3) PR: COP 3503C & EEE 3342C
- EEE 4346C (3) PR: EEL 3801C
- EEE 4775 (3) PR: COP 4600 or EEL 4768 or EEL 4742C
- EEL 5722C (3) PR: EEE 3342C

FTIC requirement
- EGS 1006C Intro to Engineering (1)
  - EGE 3342C Digital Systems (3)
  - COP 3330** Object Oriented Prog (3)
  - COP 3502C Computer Science I (3)
  - Tech Electives See Advisor (12)

Transfer requirement
- Tech Electives See Advisor (14)

All courses with "**" require a grade of C (2.0) or better.