

[student name]

[date]

CE 5.0

Plan to complete CE degree

Student ID

Last Revision by Dr. Durant

Curriculum Version

Fall, 2023

| | | |
|----------|----------------------|---|
| COM-101 | College Writing | 3 |
| CPE-1900 | Digital Logic | 4 |
| CSC-1110 | Software Development | 4 |
| MTH-1110 | Calculus I | 4 |

Total **15**

Fall, 2024

| | | |
|----------|--------------------------------------|---|
| CPE-2840 | Systems Programming | 4 |
| ELE-2 | Circuits I | 4 |
| MTH-2140 | Diff Eq + Matrix Algebra | 3 |
| OR-2xxx | Career Development | 0 |
| PHY-1120 | Physics II - Electricity, Magnetism, | 4 |

Total **15**

Fall, 2025

| | | |
|----------|----------------------------|---|
| BUS-3 | Building Inclusive Teams | 3 |
| COM-301 | Professional Presentations | 3 |
| CPE-3800 | Embedded Systems | 4 |
| ELE-3 | Electronics | 4 |
| MTH-2 | Probability and stats | 3 |

Total **17**

Fall, 2026

| | | |
|----------|--------------------------------|---|
| CPE-4901 | Senior Design I | 3 |
| CSE-4 | Technical Elective | 3 |
| ELE-3 | DSP | 3 |
| HSC-4 | GenEd HSC Elective per 6c | 3 |
| PHL-4 | Ethics (non-elective GenEd 6c) | 3 |

Total **15**

Spring, 2024

| | | |
|----------|---|---|
| CPE-1920 | Computer Architecture and Assembly Language | 4 |
| CSC-1120 | Graphical Software and Data Structures | 4 |
| MTH-1120 | Calculus II | 4 |
| PHY-1110 | Physics I - Mechanics & Thermodynamics | 4 |

Total **16**

Spring, 2025

| | | |
|----------|---------------------|---|
| COM-201 | Engineering Writing | 3 |
| CPE-2950 | Networking | 4 |
| ELE-2 | Circuits II | 4 |
| MTH-2310 | Discrete Math | 3 |
| EL | Free Elective | 3 |

Total **17**

Spring, 2026

| | | |
|----------|--------------------------------|---|
| BUS-3 | Principles of Entrepreneurship | 3 |
| CPE-3810 | Advanced Embedded Systems | 4 |
| ELE-3 | Signals | 3 |
| HSC-4 | GenEd HSC Elective per 6c | 3 |
| MTH-2340 | Linear algebra | 3 |

Total **16**

Spring, 2027

| | | |
|----------|---|---|
| CPE-4902 | Senior Design II | 3 |
| CSE-4 | Technical Elective | 3 |
| CPE-4920 | Information Security | 4 |
| HSC-4 | GenEd 6d SE HSC/MA/PH/CH | 3 |
| PHY-3700 | Physics of Electronic Materials and Semiconductor Dev | 4 |

Total **17**

31

32

33

32

128

General Education Core Part 1, 21 credits required **22**

ABET Math/Science, 30 required **32**

EECS classes highlighted to help assess balance

Bachelor of Science
 Computer Engineering
 Model Full-Time Track - V4.3 (from 2020-2021 catalog)

| Course Number | Course Name | QF | QW | QS | CE | Quarter System | | | | | Semester Equivalent | | | | Semester Actual | | | | Course # | Course Name | | | |
|---------------|--|--------|----|----|--------|----------------|------------|-----------|------------|-------------------|---------------------|------------|-----------|------------|-----------------|------------|-----------|------------|--------------------------------|---|---------|-----------|---------|
| | | | | | | Count | Lec Hours | Lab Hours | Credits | Has Lab | Area | Count | Lec Hours | Lab Hours | Credits | Count | Lec Hours | Lab Hours | | | Credits | Δ Credits | |
| Total | | | | | | 55 | 168 | 48 | 192 | 24 | 36.7 | 112 | 32 | 128 | 37 | 112 | 34 | 128 | | | | | |
| | | | | | | | | | | | | | | | | | | | 1% | 0% | 6% | 0% | ← ↓ % Δ |
| | | | | | | 3 | 9 | 0 | 9 | Business | 2 | 6.0 | | 6 | 2 | 6 | 0 | 6 | 0% | | | | |
| | | | | | | 9 | 27 | 12 | 33 | 6 Engineering CS | 6 | 18.0 | 8.0 | 22 | 5 | 15 | 8 | 19 | -14% | | | | |
| | | | | | | 17 | 49 | 28 | 63 | 14 Engineering EC | 11.3 | 32.7 | 18.7 | 42 | 13 | 37 | 20 | 47 | 12% | | | | |
| | | | | | | 3 | 7 | 0 | 7 | General | 2 | 4.7 | | 4.7 | 1 | 4 | 0 | 3 | -36% | | | | |
| | | | | | | 9 | 30 | 0 | 30 | HSC | 6 | 20.0 | | 20 | 7 | 21 | 0 | 21 | 5% | | | | |
| | | | | | | 9 | 31 | 0 | 31 | Math | 6 | 20.7 | | 20.7 | 6 | 20 | 0 | 20 | -3% | | | | |
| | | | | | | 5 | 15 | 8 | 19 | 4 Physics | 3.3 | 10.0 | 5.3 | 12.7 | 3 | 9 | 6 | 12 | -5% | | | | |
| | | | | | | | | | | | | | | | | | | | Share | | | | |
| BA-3411 | Leading Project Teams | '3-0-3 | | | | 7 | 3 | 0 | 3 | FALSE | Business | | | | | | 3 | BUS-3 | Organizational Dynamics | | | | |
| BA-3423 | Innovation and Business Markets | | | | '3-0-3 | 9 | 3 | 0 | 3 | FALSE | Business | | | | | | 3 | BUS-3 | Principles of Entrepreneurship | | | | |
| BA-2220 | Foundations of Business Economics | | | | '3-0-3 | 11 | 3 | 0 | 3 | FALSE | Business | | | | | | 3 | | | | | | |
| CS-1011 | Software Development I | '3-2-4 | | | | 1 | 3 | 2 | 4 | TRUE | Engineering CS | | | | 3 | 2 | 4 | CS/SE | CSC-1110 | Software Development | | | |
| CS-1021 | Software Development II | | | | '3-2-4 | 2 | 3 | 2 | 4 | TRUE | Engineering CS | | | | 3 | 2 | 4 | CS/SE | CSC-1120 | Graphical Software and Data Structures | | | |
| CS-2852 | Data Structures | | | | '3-2-4 | 3 | 3 | 2 | 4 | TRUE | Engineering CS | | | | | | | | | | | | |
| SE-2030 | Software Engineering Tools and Practices | | | | '2-2-3 | 6 | 2 | 2 | 3 | TRUE | Engineering CS | | | | | | | | | | | | |
| CS-3841 | Design of Operating Systems | '3-2-4 | | | | 7 | 3 | 2 | 4 | TRUE | Engineering CS | | | | 3 | 2 | 4 | CS/SE | CPE-2840 | Systems Programming | | | |
| CS-3210 | Computer Graphics | | | | 3-2-4 | 9 | 3 | 2 | 4 | TRUE | Engineering CS | | | | | | ?? | | | | | | |
| CE-4961 | Networking II | | | | 4-0-4 | 11 | 4 | 0 | 4 | FALSE | Engineering CS | | | | | | | | | | | | |
| | Elective (Technical) | | | | '3-0-3 | 11 | 3 | 0 | 3 | FALSE | Engineering CS | | | | 3 | 0 | 3 | CSE-4 | Technical Elective | | | | |
| CS-4920 | Information Security | | | | '3-0-3 | 12 | 3 | 0 | 3 | FALSE | Engineering CS | | | | 3 | 2 | 4 | CS/SE | CPE-4920 | Information Security | | | |
| CE-1901 | Digital Logic I | 3-2-4 | | | | 1 | 3 | 2 | 4 | TRUE | Engineering EC | | | | 3 | 2 | 4 | | CPE-1900 | Digital Logic | | | |
| CE-1911 | Digital Logic II | | | | 3-2-4 | 2 | 3 | 2 | 4 | TRUE | Engineering EC | | | | | | | | | | | | |
| CE-1921 | Computer Architecture | | | | '3-2-4 | 3 | 3 | 2 | 4 | TRUE | Engineering EC | | | | 3 | 2 | 4 | | CPE-1920 | Computer Architecture and Assembly Language | | | |
| CE-2801 | Embedded Systems I | 3-2-4 | | | | 4 | 3 | 2 | 4 | TRUE | Engineering EC | | | | 3 | 2 | 4 | EE | CPE-3800 | Embedded 1: C and Subsystems | | | |
| EE-2050 | Linear Circuits - Steady State I | | | | 3-2-4 | 4 | 3 | 2 | 4 | TRUE | Engineering EC | | | | 3 | 2 | 4 | | ELE-2 | Circuits I | | | |
| CE-2812 | Embedded Systems II | | | | 3-2-4 | 5 | 3 | 2 | 4 | TRUE | Engineering EC | | | | 3 | 2 | 4 | | CPE-3810 | Embedded 2: Assembly and VHDL subsystems | | | |
| EE-2060 | Linear Circuits - Steady State II | | | | 3-2-4 | 5 | 3 | 2 | 4 | TRUE | Engineering EC | | | | 4 | | 4 | | ELE-2 | Circuits II | | | |
| CE-2820 | Embedded Systems III | | | | '3-2-4 | 6 | 3 | 2 | 4 | TRUE | Engineering EC | | | | | | | | | | | | |
| EE-2070 | Linear Circuits - Transients | | | | 3-0-3 | 6 | 3 | 0 | 3 | FALSE | Engineering EC | | | | | | | | | | | | |
| EE-3032 | Signals and Systems | 4-0-4 | | | | 7 | 4 | 0 | 4 | FALSE | Engineering EC | | | | 3 | 0 | 3 | EE | ELE-3 | Signals | | | |
| EE-3221 | Digital Signal Processing | | | | '3-2-4 | 8 | 3 | 2 | 4 | TRUE | Engineering EC | | | | | | 3 | EE | ELE-3 | DSP | | | |
| CE-3101 | Digital Electronic Interfacing | | | | 3-2-4 | 9 | 3 | 2 | 4 | TRUE | Engineering EC | | | | 3 | 2 | 4 | | ELE-3 | Electronics 1 | | | |
| CE-4000 | Senior Design Project I | '2-2-3 | | | | 10 | 2 | 2 | 3 | TRUE | Engineering EC | | | | 2 | 2 | 3 | | CPE-4901 | Senior Design I | | | |
| CE-4951 | Networking I | 3-2-4 | | | | 10 | 3 | 2 | 4 | TRUE | Engineering EC | | | | 3 | 2 | 4 | | CPE-2950 | Networking | | | |
| | Elective (Technical) | | | | '3-0-3 | 10 | 3 | 0 | 3 | FALSE | Engineering EC | | | | 3 | 0 | 3 | | CSE-4 | Technical Elective | | | |
| CE-4010 | Senior Design Project II | | | | '2-2-3 | 11 | 2 | 2 | 3 | TRUE | Engineering EC | | | | 2 | 2 | 3 | | CPE-4902 | Senior Design II | | | |
| CE-4020 | Senior Design Project III | | | | '2-2-3 | 12 | 2 | 2 | 3 | TRUE | Engineering EC | | | | | | | | | | | | |
| OR-402 | Professional Guidance | | | | 1-0-1 | 8 | 1 | 0 | 1 | FALSE | General | | | | 1 | 0 | 0 | CS/SE/... | '??-2xxx | Professional Guidance | | | |
| | Elective (Free) | | | | '3-0-3 | 8 | 3 | 0 | 3 | FALSE | General | | | | 3 | 0 | 3 | | | Elective (Free) | | | |
| | Elective (Free) | | | | '3-0-3 | 12 | 3 | 0 | 3 | FALSE | General | | | | | | | | | | | | |
| GS-1001 | Freshman Studies I | 4-0-4 | | | | 1 | 4 | 0 | 4 | FALSE | HSC | | | | 3 | | 3 | | COM-1 | GenEd Core I | | | |
| GS-1002 | Freshman Studies II | | | | 4-0-4 | 2 | 4 | 0 | 4 | FALSE | HSC | | | | 3 | | 3 | | COM-2 | GenEd Core II | | | |
| GS-1003 | Freshman Studies III | | | | 4-0-4 | 3 | 4 | 0 | 4 | FALSE | HSC | | | | 3 | | 3 | | COM-3 | GenEd Core III | | | |
| HU-432 | Ethics for Professional Managers and Engineers | | | | '3-0-3 | 9 | 3 | 0 | 3 | FALSE | HSC | | | | 3 | | 3 | | PHL-4 | Ethics | | | |
| | Elective (HU/SS) | | | | '3-0-3 | 10 | 3 | 0 | 3 | FALSE | HSC | | | | 3 | | 3 | | HSC-4 | Elective per GenEd TBD | | | |
| | Elective (HU/SS) | | | | '3-0-3 | 10 | 3 | 0 | 3 | FALSE | HSC | | | | 3 | | 3 | | HSC-4 | Elective per GenEd TBD | | | |
| | Elective (HU/SS) | | | | '3-0-3 | 11 | 3 | 0 | 3 | FALSE | HSC | | | | 3 | | 3 | | HSC-4 | Elective per GenEd TBD | | | |
| | Elective (HU/SS) | | | | '3-0-3 | 12 | 3 | 0 | 3 | FALSE | HSC | | | | | | | | | | | | |
| | Elective (HU/SS) | | | | '3-0-3 | 12 | 3 | 0 | 3 | FALSE | HSC | | | | | | | | | | | | |
| MA-136 | Calculus for Engineers I | 4-0-4 | | | | 1 | 4 | 0 | 4 | FALSE | Math | | | | 4 | | 4 | | MTH-1110 | Calculus I | | | |
| MA-137 | Calculus for Engineers II | | | | 4-0-4 | 2 | 4 | 0 | 4 | FALSE | Math | | | | 4 | | 4 | | MTH-1120 | Calculus II | | | |
| MA-2314 | Calculus for Engineers III | | | | 4-0-4 | 3 | 4 | 0 | 4 | FALSE | Math | | | | 0 | | | | | (Calculus III not required for CE on semesters) | | | |
| MA-235 | Differential Equations for Engineers | 4-0-4 | | | | 4 | 4 | 0 | 4 | FALSE | Math | | | | 3 | | 3 | | MTH-2140 | Diff Eq + Matrix Algebra | | | |
| MA-2323 | Calculus for Engineers IV | | | | '3-0-3 | 5 | 3 | 0 | 3 | FALSE | Math | | | | 3 | | 3 | | MTH-2 | Probability and stats | | | |
| MA-262 | Probability and Statistics | | | | '3-0-3 | 6 | 3 | 0 | 3 | FALSE | Math | | | | | | | | | | | | |
| MA-2310 | Discrete Mathematics I | '3-0-3 | | | | 7 | 3 | 0 | 3 | FALSE | Math | | | | 3 | | 3 | | MTH-2310 | Discrete Math | | | |
| MA-383 | Linear Algebra | | | | '3-0-3 | 8 | 3 | 0 | 3 | FALSE | Math | | | | 3 | | 3 | | MTH-2340 | Linear algebra | | | |
| | Elective (Math/Science) | | | | '3-0-3 | 9 | 3 | 0 | 3 | FALSE | Math | | | | | | | | | | | | |
| PH-2011 | Physics I - Mechanics | 3-2-4 | | | | 4 | 3 | 2 | 4 | TRUE | Physics | | | | 3 | 2 | 4 | | PHY-1110 | Physics I - Mechanics and Thermodynamics | | | |
| PH-2021 | Physics II - Electromagnetism and Optics | | | | 3-2-4 | 5 | 3 | 2 | 4 | TRUE | Physics | | | | 3 | 2 | 4 | | PHY-1120 | Physics II - Electricity, Magnetism, and Optics | | | |
| PH-2031 | Physics III - Thermodynamics and Quantum Physics | | | | 3-2-4 | 6 | 3 | 2 | 4 | TRUE | Physics | | | | | | | | | | | | |
| | Elective (Science) | | | | '3-0-3 | 7 | 3 | 0 | 3 | FALSE | Physics | | | | | | | | | | | | |
| PH-3600 | Physics of Semiconductor Materials and Devices | | | | 3-2-4 | 8 | 3 | 2 | 4 | TRUE | Physics | | | | 3 | 2 | 4 | | PHY-3700 | Semiconductors | | | |
| | | | | | | | | | | | | | | | | | | | 21 | GenEd Core 21 | | | |
| | | | | | | | | | | | | | | | | | | | 32 | GenEd M/S 3 | | | |
| | | | | | | | | | | | | | | | | | | | 7 | GenEd RealWorld 6 1cr | | | |