# Computer Engineering 2021-2022 (Class of 2025)

| Fall First Year | | |
|---|---|---|
| CMJ 103 | Fund of Public Communication Human Values/Social Context | 3 |
| ECE 100 | ELE & CEN Eng Seminar | 1 |
| ECE 101 | Intro to ELE & CEN Eng | 3 |
| MAT 126 | Calculus I | 4 |
| PHY 121 | Physics for Engineers 1 | 4 |
| | | 15 |

| Spring First Year | | |
|---|---|---|
| ECE 177 | Intro to Prog for Engineers | 4 |
| ENG 101 | College Composition | 3 |
| MAT 127 | Calculus II | 4 |
| PHY 122 | Physics for Engineers II | 4 |
| | | 15 |

| Fall Sophomore | | |
|---|---|---|
| COS 221 | Intro to Computer Science II | 3 |
| ECE 210 | Electrical Networks I | 4 |
| ECE 275 | Sequential Logic Systems | 3 |
| MAT 228 | Calculus III | 4 |
| Elective | HV & SC (1) Cultural Diversity & International Perspectives | 3 |
| | | 17 |

| Spring Sophomore | | |
|---|---|---|
| ECE 214 | Electrical Networks Lab | 3 |
| ECE 271 | Micro Arch & Applications | 4 |
| Elective | Generic Focus (1) | 3 |
| MAT 258 | Diff Eqn. & Linear Algebra | 4 |
| Elective | HV & SC (2) - Western Cultural Tradition | 3 |
| | | 17 |

| Fall Junior | | |
|---|---|---|
| ECE 316 \| STS 332 | Random Signal Analysis \|Statistics | 3 |
| ECE 342 | Electronics I | 4 |
| ECE 473 | Computer Architecture & Org | 4 |
| ECE 314 | Signals and Systems | 3 |
| | | 14 |

| Spring Junior | | |
|---|---|---|
| ECE 331 \| COS 331 | Introduction to UNIX Systems Administration \| Operating Systems | 3 |
| ECE 405 | Design Project | 2 |
| ECE 477 \| Elective | Hardware Applications in C \| Computer Focus (1) | 3 |
| Elective | Computer Focus (2) | 3 |
| Elective | HV & SC (3) Population and the Environment | 3 |
| Elective | HV & SC (4) Artistic & Creative Expression | 3 |
| | | 17 |

| Fall Senior | | |
|---|---|---|
| ECE 406 | Design Project II | 4 |
| ECE 471 \| Elective | Embedded Systems \| Computer Focus (1) | 3 |
| MAT 481\| COS 250 | Discrete Mathematics \| Discrete Structures | 3 |
| Elective | Computer Focus (3) | 3 |
| Elective | ECE Technical Elective (1) | 3 |
| | | 16 |

| Spring Senior | | |
|---|---|---|
| ECE 403 | Design Project III | 2 |
| ECE 486 | Digital Signal Processing | 4 |
| Elective | Computer Focus (4) | 1 |
| Elective | ECE Technical Elective (2) | 3 |
| Elective | HV & SC (5) Ethics | 3 |
| | | 13 |

| Total Credit Hours | 124 |
|---|---|

| Legend |
|---|
| ECE |
| Math & Science |
| English |
| Gen Ed |

# Computer Engineering with Honors 2021-2022 (Class of 2025)

| Fall First Year | | |
|---|---|---|
| ECE 100 | ELE & CEN Eng Seminar | 1 |
| ECE 101 | Intro to ELE & CEN Eng | 3 |
| HON 111 | Civilizations I | 4 |
| MAT 126 | Calculus I | 4 |
| PHY 121 | Physics for Engineers 1 | 4 |
| | | 16 |

| Spring First Year | | |
|---|---|---|
| ECE 177 | Intro to Prog for Engineers | 4 |
| HON 112 | Civilizations II | 4 |
| MAT 127 | Calculus II | 4 |
| PHY 122 | Physics for Engineers II | 4 |
| | | 16 |

| Fall Sophomore | | |
|---|---|---|
| COS 221 | Intro to Computer Science II | 3 |
| ECE 210 | Electrical Networks I | 4 |
| ECE 275 | Sequential Logic Systems | 3 |
| HON 211 | Civilizations III | 4 |
| MAT 228 | Calculus III | 4 |
| | | 18 |

| Spring Sophomore | | |
|---|---|---|
| ECE 214 | Electrical Networks Lab | 3 |
| ECE 271 | Micro Arch & Applications | 4 |
| Elective | Generic Focus (1) - Math course | 3 |
| HON 212 | Civilizations IV | 4 |
| MAT 258 | Diff Eqn. & Linear Algebra | 4 |
| | | 18 |

| Fall Junior | | |
|---|---|---|
| ECE 316 \| STS 332 | Random Signal Analysis \|Statistics | 3 |
| ECE 342 | Electronics I | 4 |
| ECE 473 | Computer Architecture & Org | 4 |
| HON 180 | A Cultural Odyssey | 1 |
| ECE 314 | Signals and Systems | 3 |
| | | 15 |

| Spring Junior | | |
|---|---|---|
| HON 170 | Currents and Context | 1 |
| ECE 331 \| COS 331 | Introduction to UNIX Systems Administration \| Operating Systems | 3 |
| ECE 405 | Design Project | 2 |
| ECE 477 \| Elective | Hardware Applications in C \| Computer Focus (1) | 3 |
| HON 3XX | Honors Tutorial | 3 |
| Elective | Computer Focus (2) | 3 |
| HON 391 | Intro to Thesis Research | 1 |
| | | 16 |

| Fall Senior | | |
|---|---|---|
| ECE 471 \| Elective | Embedded Systems \| Computer Focus (1) | 3 |
| HON 498 | Honor Directed Study | 3 |
| MAT 481\| COS 250 | Discrete Mathematics \| Discrete Structures | 3 |
| Elective | Computer Focus (3) | 3 |
| Elective | ECE Technical Elective (1) | 3 |
| | | 15 |

| Spring Senior | | |
|---|---|---|
| ECE 486 | Digital Signal Processing | 4 |
| HON 499 | Honors Thesis | 3 |
| Elective | Computer Focus (4) | 1 |
| Elective | ECE Technical Elective (2) | 3 |
| | | 11 |

| Total Credit Hours | 125 |
|---|---|

| |
|---|
| ECE |
| Math & Science |
| Gen Ed |
| Honors |

7/6/2021

# Electrical Engineering 2021-2022 (Class of 2025)

| Fall First Year | | |
|---|---|---|
| CHY 131 | Chemistry for Engineers | 3 |
| CHY 133 | Chemistry for Engineers Lab | 1 |
| CMJ 103 | Fund of Public Communication Human Values/Social Context | 3 |
| ECE 100 | ELE & CEN Eng Seminar | 1 |
| ECE 101 | Intro to ELE & CEN Eng | 3 |
| MAT 126 | Calculus I | 4 |
| | | 15 |

| Spring First Year | | |
|---|---|---|
| ECE 177 | Intro to Prog for Engineers | 4 |
| ENG 101 | College Composition | 3 |
| MAT 127 | Calculus II | 4 |
| PHY 121 | Physics for Engineers I | 4 |
| | | 15 |

| Fall Sophomore | | |
|---|---|---|
| ECE 210 | Electrical Networks I | 4 |
| ECE 275 | Sequential Logic Systems | 3 |
| Elective | HV & SC (1) Cultural Diversity & International Perspectives | 3 |
| MAT 228 | Calculus III | 4 |
| PHY 122 | Physics for Engineers II | 4 |
| | | 18 |

| Spring Sophomore | | |
|---|---|---|
| ECE 214 | Electrical Networks Lab | 3 |
| ECE 271 | Micro Arch & Applications | 4 |
| ECE 351 | Fields and Waves | 3 |
| MAT 258 | Diff Eqn. & Linear Algebra | 4 |
| Elective | HV & SC (2) - Western Cultural Tradition | 3 |
| | | 17 |

| Fall Junior | | |
|---|---|---|
| ECE 316 \| STS 332 | Random Signal Analysis \|Statistics | 3 |
| ECE 342 | Electronics I | 4 |
| ECE 314 | Signals and Systems | 3 |
| Elective | ECE Technical Elective (1) | 3 |
| | | 13 |

| Spring Junior | | |
|---|---|---|
| ECE 343 | Electronics II | 4 |
| ECE 401 | Design Project | 2 |
| ECE 486 | Digital Signal Processing | 4 |
| Elective | Electrical Focus (1) | 3 |
| Elective | ECE Technical Elective (2) | 3 |
| | | 16 |

| Fall Senior | | |
|---|---|---|
| ECE 402 | Design Project II | 4 |
| Elective | Electrical Focus (2) | 3 |
| Elective | Generic Focus (2) | 3 |
| Elective | Generic Focus (1) | 3 |
| Elective | HV & SC (3) Population and the Environment | 3 |
| | | 16 |

| Spring Senior | | |
|---|---|---|
| ECE 403 | Design Project III | 2 |
| ECE 414 | Feedback Control Systems | 3 |
| Elective | Electrical Focus (3) | 3 |
| Elective | HV & SC (4) Artistic & Creative Expression | 3 |
| Elective | HV & SC (5) Ethics | 3 |
| | | 14 |

| Total Credit Hours | 124 |
|---|---|

| Legend |
|---|
| ECE |
| Math & Science |
| English |
| Gen Ed |

# Electrical Engineering with Honors 2021-2022 (Class of 2025)

| Fall First Year | | |
|---|---|---|
| ECE 100 | ELE & CEN Eng Seminar | 1 |
| ECE 101 | Intro to ELE & CEN Eng | 3 |
| HON 111 | Civilizations I | 4 |
| MAT 126 | Calculus I | 4 |
| PHY 121 | Physics for Engineers I | 4 |
| | | 16 |

| Spring First Year | | |
|---|---|---|
| ECE 177 | Intro to Prog for Engineers | 4 |
| HON 112 | Civilizations II | 4 |
| MAT 127 | Calculus II | 4 |
| PHY 122 | Physics for Engineers II | 4 |
| | | 16 |

| Fall Sophomore | | |
|---|---|---|
| ECE 210 | Electrical Networks I | 4 |
| ECE 275 | Sequential Logic Systems | 3 |
| HON 211 | Civilizations III | 4 |
| MAT 228 | Calculus III | 4 |
| | | 15 |

| Spring Sophomore | | |
|---|---|---|
| ECE 214 | Electrical Networks Lab | 3 |
| ECE 271 | Micro Arch & Applications | 4 |
| ECE 351 | Fields and Waves | 3 |
| HON 212 | Civilizations IV | 4 |
| MAT 258 | Diff Eqn. & Linear Algebra | 4 |
| | | 18 |

| Fall Junior | | |
|---|---|---|
| CHY 131 | Chemistry for Engineers | 3 |
| CHY 133 | Chemistry for Engineers Lab | 1 |
| ECE 316 \| STS 332 | Random Signal Analysis \|Statistics | 3 |
| ECE 342 | Electronics I | 4 |
| ECE 314 | Signals and Systems | 3 |
| HON 180 | A Cultural Odyssey | 1 |
| | | 15 |

| Spring Junior | | |
|---|---|---|
| ECE 343 | Electronics II | 4 |
| ECE 401 | Design Project | 2 |
| ECE 486 | Digital Signal Processing | 4 |
| HON 3XX | Honors Tutorial | 3 |
| Elective | Electrical Focus (1) | 3 |
| HON 170 | Currents and Context | 1 |
| HON 391 | Intro to Thesis Research | 1 |
| | | 18 |

| Fall Senior | | |
|---|---|---|
| HON 498 | Honor Directed Study | 3 |
| Elective | Electrical Focus (2) | 3 |
| Elective | ECE Technical Elective (1) | 3 |
| Elective | Generic Focus (2) | 3 |
| Elective | Generic Focus (1) | 3 |
| | | 15 |

| Spring Senior | | |
|---|---|---|
| ECE 414 | Feedback Control Systems | 3 |
| HON 499 | Honors Thesis | 3 |
| Elective | Electrical Focus (3) | 3 |
| Elective | ECE Technical Elective (2) | 3 |
| | | 12 |

| Total Credit Hours | 125 |
|---|---|

| |
|---|
| ECE |
| Math & Science |
| Honors |
| Gen Ed |

# Double Major 2021-2022 (Class of 2025)

| Fall First Year | | |
|---|---|---|
| CHY 131 | Chemistry for Engineers | 3 |
| CHY 133 | Chemistry for Engineers Lab | 1 |
| CMJ 103 | Fund of Public Communication Human Values/Social Context | 3 |
| ECE 100 | ELE & CEN Eng Seminar | 1 |
| ECE 101 | Intro to ELE & CEN Eng | 3 |
| MAT 126 | Calculus I | 4 |
| Elective | HV & SC (1) Cultural Diversity & International Perspectives | 3 |
| | | 18 |

| Spring First Year | | |
|---|---|---|
| ECE 177 | Intro to Prog for Engineers | 4 |
| ENG 101 | College Composition | 3 |
| MAT 127 | Calculus II | 4 |
| PHY 121 | Physics for Engineers I | 4 |
| Elective | HV & SC (2) - Western Cultural Tradition | 3 |
| | | 18 |

| Fall Sophomore | | |
|---|---|---|
| COS 221 | Intro to Computer Science II | 3 |
| ECE 210 | Electrical Networks I | 4 |
| ECE 275 | Sequential Logic Systems | 3 |
| MAT 228 | Calculus III | 4 |
| PHY 122 | Physics for Engineers II | 4 |
| | | 18 |

| Spring Sophomore | | |
|---|---|---|
| ECE 214 | Electrical Networks Lab | 3 |
| ECE 271 | Micro Arch & Applications | 4 |
| ECE 351 | Fields and Waves | 3 |
| MAT 258 | Diff Eqn. & Linear Algebra | 4 |
| Elective | HV & SC (3) Population and the Environment | 3 |
| | | 17 |

| Fall Junior | | |
|---|---|---|
| ECE 316 \| STS 332 | Random Signal Analysis \|Statistics | 3 |
| ECE 342 | Electronics I | 4 |
| ECE 314 | Signals and Systems | 3 |
| Elective | Computer Focus (2) | 3 |
| ECE 471 \| Elective | Embedded Systems \| Computer Focus (1) | 3 |
| | | 16 |

| Spring Junior | | |
|---|---|---|
| ECE 343 | Electronics II | 4 |
| ECE 401/5 | Design Project | 2 |
| ECE 477 \| Elective | Hardware Applications in C \| Computer Focus (1) | 3 |
| ECE 486 | Digital Signal Processing | 4 |
| Elective | Electrical Focus (1) | 3 |
| | | 16 |

| Fall Senior | | |
|---|---|---|
| ECE 402/6 | Design Project II | 4 |
| ECE 473 | Computer Architecture & Org | 4 |
| MAT 481\| COS 250 | Discrete Mathematics \| Discrete Structures | 3 |
| Elective | Electrical Focus (2) | 3 |
| Elective | Computer Focus (3) | 3 |
| Elective | Computer Focus (4) | 1 |
| | | 18 |

| Spring Senior | | |
|---|---|---|
| ECE 331 \| COS 331 | Introduction to UNIX Systems Administration \| Operating Systems | 3 |
| ECE 403 | Design Project III | 2 |
| ECE 414 | Feedback Control Systems | 3 |
| Elective | Electrical Focus (3) | 3 |
| Elective | HV & SC (4) Artistic & Creative Expression | 3 |
| Elective | HV & SC (5) Ethics | 3 |
| | | 17 |

| Total Credit Hours | 138 |
|---|---|

| Legend |
|---|
| ECE |
| Math & Science |
| English |
| Gen Ed |

Either ECE 401/402 or ECE 405/406 are required, but not both for double major.

7/6/2021

# Double Major with Honors 2021-2022 (Class of 2025)

| Fall First Year | | |
|---|---|---|
| ECE 100 | ELE & CEN Eng Seminar | 1 |
| ECE 101 | Intro to ELE & CEN Eng | 3 |
| HON 111 | Civilizations I | 4 |
| MAT 126 | Calculus I | 4 |
| PHY 121 | Physics for Engineers I | 4 |
| | | 16 |

| Spring First Year | | |
|---|---|---|
| ECE 177 | Intro to Prog for Engineers | 4 |
| HON 112 | Civilizations II | 4 |
| MAT 127 | Calculus II | 4 |
| PHY 122 | Physics for Engineers II | 4 |
| | | 16 |

| Fall Sophomore | | |
|---|---|---|
| COS 221 | Intro to Computer Science II | 3 |
| ECE 210 | Electrical Networks I | 4 |
| ECE 275 | Sequential Logic Systems | 3 |
| HON 211 | Civilizations III | 4 |
| MAT 228 | Calculus III | 4 |
| | | 18 |

| Spring Sophomore | | |
|---|---|---|
| ECE 214 | Electrical Networks Lab | 3 |
| ECE 271 | Micro Arch & Applications | 4 |
| ECE 351 | Fields and Waves | 3 |
| HON 212 | Civilizations IV | 4 |
| MAT 258 | Diff Eqn. & Linear Algebra | 4 |
| | | 18 |

| Fall Junior | | |
|---|---|---|
| ECE 316 \| STS 332 | Random Signal Analysis \|Statistics | 3 |
| ECE 342 | Electronics I | 4 |
| ECE 314 | Signals and Systems | 3 |
| ECE 471 \| Elective | Embedded Systems \| Computer Focus (1) | 3 |
| HON 180 | A Cultural Odyssey | 1 |
| | | 14 |

| Spring Junior | | |
|---|---|---|
| ECE 343 | Electronics II | 4 |
| ECE 401/5 | Design Project | 2 |
| ECE 477 \| Elective | Hardware Applications in C \| Computer Focus (1) | 3 |
| ECE 486 | Digital Signal Processing | 4 |
| HON 3XX | Honors Tutorial | 3 |
| HON 391 | Intro to Thesis Research | 1 |
| | | 17 |

| Fall Senior | | |
|---|---|---|
| ECE 473 | Computer Architecture & Org | 4 |
| HON 498 | Honor Directed Study | 3 |
| MAT 481\| COS 250 | Discrete Mathematics \| Discrete Structures | 3 |
| Elective | Computer Focus (2) | 3 |
| Elective | Electrical Focus (1) | 3 |
| | | 16 |

| Spring Senior | | |
|---|---|---|
| ECE 331 \| COS 331 | Introduction to UNIX Systems Administration \| Operating Systems | 3 |
| ECE 414 | Feedback Control Systems | 3 |
| HON 499 | Honors Thesis | 3 |
| Elective | Electrical Focus (3) | 3 |
| Elective | Computer Focus (3) | 1 |
| HON 170 | Currents and Context | 1 |
| | | 14 |

| Fall Super Senior | | |
|---|---|---|
| CHY 131 | Chemistry for Engineers | 3 |
| CHY 133 | Chemistry for Engineers Lab | 1 |
| Elective | Computer Focus (4) | 3 |
| Elective | Electrical Focus (2) | 3 |
| | | 10 |

| Total Credit Hours | **139** |
|---|---|

| |
|---|
| ECE |
| Math & Science |
| Honors |
| Gen Ed |

Either ECE 401 or ECE 405 is required, but not both for double major.