Computer Engineering 2022-2023 (Class of 2026)

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

ECE 198 | COS 221	Object Oriented Programming | Intro to Computer Science II *(COS 221 may not be regularly offered)*	3
ECE 210	Electrical Networks I	3
ECE 275	Sequential Logic Systems	3
MAT 228	Calculus III	4
Elective	HV & SC (1) Cultural Diversity & International Perspectives	3
		16

Spring Sophomore

ECE 214	Electrical Networks Lab	4
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
		18

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
Elective	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	Embedded Systems	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**

ECE
Math & Science
English
Gen Ed

Computer Engineering with Honors 2022-2023 (Class of 2026)

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		
ECE 198 | COS 221	Object Oriented Programming | Intro to Computer Science II *(COS 221 may not be regularly offered)*	3
ECE 210	Electrical Networks I	3
ECE 275	Sequential Logic Systems	3
HON 211	Civilizations III	4
MAT 228	Calculus III	4
		17

Spring Sophomore		
ECE 214	Electrical Networks Lab	4
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
		19

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
Elective	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	Embedded Systems	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

Electrical Engineering 2022-2023 (Class of 2026)

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	3
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
		17

Spring Sophomore		
ECE 214	Electrical Networks Lab	4
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
		18

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

ECE
Math & Science
English
Gen Ed

Electrical Engineering with Honors 2022-2023 (Class of 2026)

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	3
ECE 275	Sequential Logic Systems	3
HON 211	Civilizations III	4
MAT 228	Calculus III	4
		14

Spring Sophomore		
ECE 214	Electrical Networks Lab	4
ECE 271	Micro Arch & Applications	4
ECE 351	Fields and Waves	3
HON 212	Civilizations IV	4
MAT 258	Diff Eqn. & Linear Algebra	4
		19

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 2022-2023 (Class of 2026)

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		
ECE 198 | COS 221	Object Oriented Programming | Intro to Computer Science II *(COS 221 may not be regularly offered)*	3
ECE 210	Electrical Networks I	3
ECE 275	Sequential Logic Systems	3
MAT 228	Calculus III	4
PHY 122	Physics for Engineers II	4
		17

Spring Sophomore		
ECE 214	Electrical Networks Lab	4
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
		18

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	Embedded Systems	3
		16

Spring Junior		
ECE 343	Electronics II	4
ECE 401/5	Design Project	2
Elective	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**

ECE
Math & Science
English
Gen Ed

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

Double Major with Honors 2022-2023 (Class of 2026)

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 198 | COS 221	Object Oriented Programming | Intro to Computer Science II *(COS 221 may not be regularly offered)*	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	Embedded Systems	3
HON 180	A Cultural Odyssey	1
		14

Spring Junior		
ECE 343	Electronics II	4
ECE 401/5	Design Project	2
Elective	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 (4)	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**

Legend
ECE
Math & Science
Honors
Gen Ed

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