Computer Engineering (BSCOME) - Modeling & Simulation Engineering Major Four-Year Plan

Bachelor of Science in Computer Engineering (BSCOME) - Modeling & Simulation Engineering Major 2022-2023 Four-Year Plan*

Freshman

First Term	Hours	Second Term	Hours
ENGN 110	2	ECE 111	2
CHEM 121N	3	CHEM 123N	3
CHEM 122N or 120**	1	MATH 212	4
MATH 211	4	PHYS 231N	4
ENGL 110C	3	ENGN 150	4
COMM 101R	3		
	16		**17**

Sophomore

First Term	Hours	Second Term	Hours
MATH 307 or 280	3	ECE 202	3
ECE 201	3	ECE 287	2
ECE 241	4	CS 250	4
PHYS 232N	4	CS 252	1
ENGL 231C	3	CS 381	3
		Literature Way of Knowing	3
	17		**16**

Junior

First Term	Hours	Second Term	Hours
ECE 302	3	ECE 346	3
ECE 313	4	ECE 348	3
ECE 341	3	ECE 320	3
ECE 306	3	ECE 406	3
ECE 304	3	Interpreting the Past Way of Knowing	3
	16		**15**

Senior

First Term	Hours	Second Term	Hours
ECE 484W	3	ECE 487	2
ECE 486	2	Technical Elective***	3
Technical Elective***	3	Technical Elective***	3
ENMA 480	3	Human Behavior Way of Knowing	3
Human Creativity Way of Knowing	3	Upper-Division General Education course	3
Upper-Division General Education course	3		
	17		**14**

Total credit hours: 128

*	Does not include the University's General Education language and culture requirement. Additional hours may be required.
**	CHEM 120 is for online program students only.
***	Computer Engineering-Modeling & Simulation Engineering major students need three technical elective courses selected from one of two options: (1) three 400-level ECE technical elective courses; and (2) two 400-level ECE technical elective courses and one 300-level ECE technical elective course or one approved 300- or 400-level CS/MATH/Engineering course.

The General Education requirements in information literacy and research, impact of technology, and philosophy and ethics are met through the major.

Computer Engineering-Modeling & Simulation Engineering majors must earn a grade of C or better in all 200-level ECE courses and all CS courses prior to taking the next course in the sequence.

Any ECE course registration issues are to be resolved with the ECE Academic Coordinator and Program Manager.

The four-year plan is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.