

Computer Engineering

Department Information

- **Department Location:**
Electrical and Computer Engineering
- **Department Phone:**
701-231-7019
- **Department Web Site:**
www.ndsu.edu/ece/ (<http://www.ndsu.edu/ece/>)
- **Credential Offered:**
B.S.Cpr.E.
- **Official Program Curriculum:**
bulletin.ndsu.edu/undergraduate/program-curriculum/computer-engineering/ (<http://bulletin.ndsu.edu/undergraduate/program-curriculum/computer-engineering/>)

Sample Program Guide

Please note this is a sample program guide and not an official curriculum. Actual student schedules for each semester will vary depending on start year, education goals, applicable transfer credit, and course availability. Once admitted, students are encouraged to work with their assigned academic advisor on a regular basis to review degree progress.

Freshman			
Fall	Credits	Spring	Credits
CHEM 121		3 ECE 111 ¹	3
Wellness Gen Ed		2 ENGL 120	3
ECE 173		4 MATH 129	3
ENGL 110		3 MATH 166	4
MATH 165		4 PHYS 251	4
		16	17
Sophomore			
Fall	Credits	Spring	Credits
EE 206		4 COMM 110	3
MATH 265		4 ECE 320	3
CSCI 222		3 MATH 266	3
ECE 275		4 ECE 374	4
Science Lab Gen Ed		1 CSCI 161	4
		16	17
Junior			
Fall	Credits	Spring	Credits
CSCI 413		3 ECE 341	3
ECE 343		4 ECE 401	1
CSCI 459		3 ECE 376	4
ENGR 402		1 CSCI 474	3
ECE 474		3 ECE 375	3
		14	14
Senior			
Fall	Credits	Spring	Credits
ECE 403		2 ECE 405	3

ENGL/Upper Level Writing ²	3 ECE Elective or CSCI 467: Alg. Analysis	3
ECE Elective	3 Humanities/Fine Arts Gen Ed Elective	3
Tech Elective	3 Social/Behavioral Sci. Gen Ed Elective ⁴	3
Humanities/Fine Arts Gen Ed Elective ³	3 Tech Elective	3
Social/Behavioral Sci. Gen Ed Elective ⁴	3	
	17	15

Total Credits: 126

- ¹ Students must take ECE 111 prior to enrolling in ECE courses listed above in the Junior or Senior years; otherwise, students must take an additional ECE Elective in lieu of ECE 111.
- ² Select from ENGL 320, 321, 324 or 459 to satisfy the Upper Level Writing for General Education.
- ³ Suggested to take ENGR 311.
- ⁴ Suggested to take ENGR 312, ECON 105, ECON 201 or ECON 202..

PROGRAM NOTES:

ECE Elective: any didactic ECE 4xx course (not x93, 494, 496).

Tech Elective: any didactic 4xx course from ECE or CSCI, or any 33x, 35x, or 4xx level didactic ME course, or any of the following: CSCI 213, 336, CSCI 366, CSCI 372, ECE 311, ECE 321, ECE 351, ECE x93, ECE 494, ECE 496 (max 3 credits), ENGR 310, PHYS 252, IME 440, IME 456, IME 460, IME 470, BIOL 151/151L, BIOL 370 and BIOL 460.

Students must earn a "C" or better in ECE 173, ECE 275, EE 206 and all required MATH courses, before enrolling in ECE courses listed above in the Junior or Senior years.