

Electrical Engineering and Physics

Department Information

- **Department Location:**
Electrical and Computer Engineering or South Engineering
- **Department Phone:**
7701-231-7019
- **Department Web Site:**
www.ndsu.edu/ece/ or www.ndsu.edu/physics/ (<http://www.ndsu.edu/ece/> or www.ndsu.edu/physics/)
- **Credential Offered:**
B.S.E.E.
- **Official Program Curriculum:**
catalog.ndsu.edu/undergraduate/program-curriculum/electrical-engineering-physics/ (<http://catalog.ndsu.edu/undergraduate/program-curriculum/electrical-engineering-physics/>)

This double major option will appeal to students with broad interests in both fundamental physical sciences and applied engineering methods. Graduates, equipped with analytical problem-solving skills and technical knowledge, will be well prepared to pursue careers in a wide range of fields within industry, government, and higher education. Student will earn a Bachelor of Science in Electrical Engineering (B.S.E.E.) with a second major in physics.

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
PHYS 171		1 ECE 111	3
Gen Ed Wellness		2 ENGL 120 (Will satisfy gen ed category C)	3
COMM 110 (Will satisfy gen ed category C)		3 MATH 129	3
ECE 173		4 MATH 166	4
ENGL 110 (Will satisfy gen ed category C)		3 PHYS 251 (Will satisfy gen ed category S)	4
MATH 165 (Will satisfy gen ed category R)		4 PHYS 251L (Will satisfy gen ed category S)	1
		PHYS 251R	1
		17	19
Sophomore			
Fall	Credits	Spring	Credits
EE 206		4 PHYS 370	3
MATH 265		4 ECE 311	4
ECE 275		4 MATH 266	3
PHYS 252 (Will satisfy gen ed category S)		4 PHYS 350	3
PHYS 252L (Will satisfy gen ed category S)		1 Gen Ed Humanities/Fine Arts	3
PHYS 252R		1	
		18	16

Junior			
Fall	Credits	Spring	Credits
ECE 320		3 ECE 331	4
ECE 321		2 ECE 343	4
PHYS 355		3 ECE 351	4
PHYS 360		3 ECE 376	4
PHYS 462		3 ECE 401	1
ENGL 320, 321, 324, or 459 (Will satisfy gen ed category C)		3	
		17	17
Senior			
Fall	Credits	Spring	Credits
ECE 403		2 ECE 405	3
ENGR 402		1 ECE Elective	3
PHYS 485		3 ECE Elective	3
ECE 341		3 Gen Ed Humanities/Fine Arts	3
PHYS Elective		2 Gen Ed Social & Behavioral Sciences	3
ECE/PHYS Elective		3	
Gen Ed Social & Behavioral Sciences		3	
		17	15
Total Credits: 136			