

Electrical Engineering and Physics

Department Information

- **Department Location:**
Electrical and Computer Engineering or South Engineering
- **Department Phone:**
701-231-7019
- **Department Web Site:**
www.ndsu.edu/ece/ or www.ndsu.edu/physics/
- **Degrees Offered:**
B.S.E.E. and B.S.
- **Official Program Curriculum:**
bulletin.ndsu.edu/undergraduate/program-curriculum/electrical-engineering-physics/

Major program of study curriculum (<http://bulletin.ndsu.edu/past-bulletin-archive/2018-19/undergraduate/program-curriculum/electrical-engineering-physics>)

This dual program 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.

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)	4	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
	18		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: 137