

# Electrical Engineering and Physics

## Department Information

- **Department Location:**  
101 Electrical and Computer Engineering Bldg. or 218 South Engineering
- **Department Phone:**  
701-231-7019 or 8974
- **Department Web Site:**  
[www.ndsu.edu/ece/](http://www.ndsu.edu/ece/) or [www.ndsu.edu/physics/](http://www.ndsu.edu/physics/) (<http://www.ndsu.edu/ece/> or [www.ndsu.edu/physics/](http://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/) (<http://catalog.ndsu.edu/undergraduate/program-curriculum/electrical-engineering-physics/>)

This dual 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

IMPORTANT DISCLAIMER: A Sample Program Guide provides an unofficial guide of program requirements and should be used by prospective students who are considering attending NDSU in the future. It is NOT an official curriculum and should NOT be used by current NDSU students for official degree planning purposes. Note that the official curriculum used by current NDSU students can vary from the Sample Program Guide due to a variety of factors such as, but not limited to, start year, education goals, transfer credit, and course availability.

To ensure proper program completion, enrolled students should utilize Degree Map (<https://www.ndsu.edu/registrar/degreemap/>) and Schedule Planner (<https://www.ndsu.edu/onestop/degree-map-and-planning/>) in Campus Connection and consult regularly with their academic advisor to ensure requirements are being met.

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
		<b>17</b>	<b>19</b>

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		
		<b>18</b>		<b>16</b>
<b>Junior</b>				
<b>Fall</b>	<b>Credits</b>		<b>Spring</b>	<b>Credits</b>
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		
		<b>17</b>		<b>17</b>
<b>Senior</b>				
<b>Fall</b>	<b>Credits</b>		<b>Spring</b>	<b>Credits</b>
ECE 341		3	ECE 405	3
ECE 403		2	ECE Elective	3
ENGR 327 (FULFILLS GEN ED CATEGORY (A))		3	ECE Elective	3
PHYS 485		3	GEN ED Social & Behavioral Sciences "B"	3
PHYS Elective		2	GEN ED Social & Behavioral Sciences "B"	3
ECE/PHYS Elective		3		
		<b>16</b>		<b>15</b>
<b>Total Credits: 135</b>				