

Physics, B.S.

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This is a sample plan of study with a suggested sequencing of classes for the major. University electives may be applied to earn additional academic majors, minors, or certificates. Students should regularly meet with their academic advisor to plan their specific semester schedule to include UNIFI/General Education program and/or university elective hours required.

Course	Title	Hour
Freshman		
Fall		
MATH 1420	Calculus I (satisfies UNIFI: Quantitative Reasoning)	4
PHYSICS 1100	First-Year Projects in Physics	1
PHYSICS 1701	Physics I for Science and Engineering (satisfies UNIFI: Scientific Reasoning)	4
UNIFI: Written Communication		3
UNIFI: Human Expression		3
Hours		15
Spring		
MATH 1421	Calculus II	4
PHYSICS 1702	Physics II for Science and Engineering	4
UNIFI: Oral Communication		3
UNIFI: Human Condition (Global)		3
Hours		14
Sophomore		
Fall		
MATH 2422	Calculus III	4
PHYSICS 2300	Physics III: Theory and Simulation	3
UNIFI: Human Condition (Domestic)		3
University Elective		6
Hours		16
Spring		
PHYSICS 4100/5100	Modern Physics	4
PHYSICS 4110/5110	Modern Physics Laboratory	2
PHYSICS 2700	Mathematical Methods of Physics & Engineering	3
UNIFI: Responsibility		3
University Elective		3
Hours		15
Junior		
Fall		
PHYSICS 3000	Undergraduate Research in Physics	2
PHYSICS 3700	Physics Seminar	1
PHYSICS 4300/5300	Introduction to Electronics (or PHYSICS 4700/5700 Electrostatics)	4
PHYSICS 4600/5600	Classical Mechanics	4
UNIFI: Connect		3
Hours		14
Spring		
PHYSICS 4900/5900	Thermodynamics and Statistical Mechanics	4
UNIFI: Connect		3

University Electives		10
Hours		17
Senior		
Fall		
PHYSICS 4700/5700	Electrodynamics (or PHYSICS 4300/5300 Introduction to Electronics)	4
UNIFI: Connect		3
University Electives		9
Hours		16
Spring		
PHYSICS 4800/5800	Quantum Mechanics (PHYSICS Elective)	4
PHYSICS 4860/5860	Computational Physics	3
UNIFI: Connect		3
University Electives		3
Hours		13
Total Hours		120

* Note: To graduate with a B.S. degree in Physics, a student must earn an overall grade point average of at least 2.50 in all courses applied toward the major.