B.S. in Physics

Click on the course number to view course title and description.

Code	Title	Semester Hours
B.S. in Physics (120 hours)		
Core Requirements (47 hours)		
First Year Seminar		3
FYE 1301	First Year Seminar	
Freshmen Composition I		3
EN 1311	Rhetoric and Composition	
or EN 1313	Rhetoric and Composition for International Students	
Literature		3
Any EN 23XX literature course		
History		3
Any 1000, 2000, or 3000-level HS course		
Social Science		6
Select two from the following: BA 1310, CJ 1301, CPH 1301, EC 2301, EC 2303, ED 2330, HU 3300, HU 3303, PO 1311, PO 1312, PO 1314, PS 1301, PS 2310, PS 2353, PS 2355, PS 2363, PS 2337, SC 1311, SC 2321, SC 2371, 3 hrs. of Communication Studies (CM 1341, CM 2321, CM 2333, CM 2334)		
Mathematics		4
MT 2412	Calculus I	
Natural or Physical Sciences		4
CH 1401	General Chemistry I	
Fine Arts		3
Select any 3 hrs. of the following: Art (AR), Drama (DM), Music (MU) or MU 1300		
Foreign Language and International Engagement		6
This requirement is satisfied through one of four ways: (1) One 3-hour course in any language at the 3000 level or above, with a grade of B or better; (2) Two courses (1311 and 1312) in a language not previously studied; (3) Two courses (2311 and 2312) in a language previously studied at the high school or college level; (4) Qualifying scores on an AP or CLEP exam, or both the ACTFL OPI and WPT exams		
Philosophy - Self		3
PL 1301	Introduction to Philosophy	
Philosophy - Ethics		3
PL 2301	Foundations of Ethics	
Theology - God		3
TH 1301	Introduction to Theology	
Intermediate Theology		3
Any TH 33xx course		
Physics Major Courses (39 hours)		
CH 1402	General Chemistry II	4
PY 1404	University Physics I	4
PY 2404	University Physics II	4
PY 3101	Modern Physics Lab	1
PY 3110	Computational Physics Lab	1
PY 3120	Robotics Lab	1
PY 3301	Modern Physics	3
PY 3303	Mathematical Methods in Physics	3
PY 3304	Thermodynamics	3
PY 3307	Mechanics	3
PY 3308	Quantum Mechanics	3
PY 4308	Advanced Quantum Mechanics	3
PY 4309	Electromagnetic Theory	3

PY 4310	Advanced Electromagnetic Theory	3
Math Courses (14 hours)		
MT 2317	Differential Equations	3
MT 2413	Calculus II	4
MT 2414	Calculus III	4
MT 3324	Linear Algebra	3
Electives (20 hours)		
Science electives (Any science course with the approval of the academic adviser)		9
Free electives (Electives courses from any discipline)		11
Total Semester Hours		**120**

Click on the course number to view course title and description.

First Year

Fall	Semester Hours	Spring	Semester Hours
FYE 1301	3	History	3
EN 1311	3	Literature	3
MT 2412	4	PY 2404	4
PY 1404	4	MT 2413	4
	14		**14**

Second Year

Fall	Semester Hours	Spring	Semester Hours
CH 1401	4	CH 1402	4
MT 2317	3	MT 2414	4
PY 3301	3	PY 3304	3
PY 3101	1	TH 1301	3
PY 3303	3	Foreign Language	3
Foreign Language	3		
	17		**17**

Third Year

Fall	Semester Hours	Spring	Semester Hours
MT 3324	3	PY 3120	1
PY 3110	1	PY 4308	3
PY 3307	3	Social Science	3
PY 3308	3	Advanced Theology	3
Science Elective	3	Science Elective	3
Free Elective	3	Free Elective	3
	16		**16**

Fourth Year

Fall	Semester Hours	Spring	Semester Hours
PY 4309	3	PY 4310	3
PL 1301	3	PL 2301	3
Fine Arts	3	Social Science	3
Free Elective	3	Science Elective	3
		Free Elective	2
	12		**14**

Total Semester Hours 120

This is a recommended degree plan subject to changes. Please meet with your adviser on a regular basis.