## **B.S. Applied Physics**

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

Code	Title	Semester Hours		
B.S. in Applied 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	S course			
Social Science		6		
_	1310, CJ 1301, CPH 1301, EC 2301, EC 2303, ED 2330, HU 3300, HU 3303, PO 1311, PO 1312, 2353, PS 2355, PS 2363, PS 2337, SC 1311, SC 2321, SC 2371, 3 hrs. of Communication Studies			
Mathematics		4		
MT 2412	Calculus I			
Natural or Physical Sciences		4		
PY 1404	University Physics 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		
or better; (2) Two courses (1311	ugh one of four ways: (1) One 3-hour course in any language at the 3000 level or above, with a grade of B and 1312) in a language not previously studied; (3) Two courses (2311 and 2312) in a language previously ege level; (4) Qualifying scores on an AP or CLEP exam, or both the ACTFL OPI and WPT exams			
Philosophy - Self		3		
PL 1301	Intro 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				
Applied Physics Major Courses (3	38 hours)			
MT 2413	Calculus II	4		
MT 2317	Differential Equations	3		
MT 2323	Discrete Math Structures	3		
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 4310 Adva	nced Electromagnetic Theory	3
Concentration (Computer Science, Engir	neering or Environmental Science)	2
Computer Science Concentration:		
	CS 2313, CS 2315, plus six hours of advanced Computer Science courses CS33XX/43XX	
Engineering Concentration:		
24 hours of engineering courses within the	ne choice of specialty (Electrical Engineering or Mechanical Engineering)	
Environmental Science Concentration		
24 hours from the ennvironmental science	ce requirements with approval of environmental science co-adviser	
Electives (11 hours)		1
Free electives (Electives courses from any	discipline)	
Total Semester Hours		12
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First Year		
Fall	Semester Spring	Semeste
	Hours	Hour
FYE 1301	3 PY 2404	
EN 1311	3 MT 2413	
MT 2412	4 PL 1301	;
PY 1404	4 Literature	;
	History	;
	14	17
Second Year		
Fall	Semester Spring	Semeste
	Hours	Hours
MT 2317	3 PY 3304	;
PY 3301	3 PY 3120	
PY 3101	1 MT 2323	;
PY 3303	3 TH 1301	;
Concentration Course	3 Concentration Course	;
	Elective	;
	13	10
Third Year		
Fall	Semester Spring	Semeste
DV 0440	Hours	Hours
PY 3110	1 PY 4308	;
PY 3307	3 Concentration Course	;
PY 3308	3 Social Science	;
Concentration Course	3 Elective	:
Concentration Course	3 Foreign Language	;
Foreign Language	3 16	14
Fourth Year		
Fall	Semester Spring	Semeste
	Hours	Hours
PY 4309	3 PL 2301	;
Concentration Course	3 Concentration Course	;
Concentration Course	3 Social Science	;
Fine Arts	3 Advanced Theology	;
Elective	3 Elective	;

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