

**PHYSICS and ASTRONOMY**  
**Energy Option - BA (120 hours) Effective 2017**

NAME	PID	Optional 2 <sup>nd</sup> Major or Minor
------	-----	---

**FOUNDATIONS**

English Comp. and Rhetoric	Foreign Language* HSFL(s)	Quant. Reas. (QR)	Lifetime Fitness (LFIT)
	1.	3.	(1 hr.)
	2.	4.	

\* Through Level 3

**APPROACHES**

Phys. and Life Sciences (PL/PX)	Social and Behavioral Sciences **	Humanities/Fine Arts
PHYS 118 (#)	Hist. Analysis (HS):	Vis. & Perf. Arts (VP):
PHYS 119 (#)	Soc. Sci./Hist. Analysis (SS/HS):	Literary Arts (LA):
	Soc. Sci./Hist. Analysis (SS/HS):	Phil. Reasoning (PH):

\*\* From at least two departments

**CONNECTIONS**

Communication Int. (CI)	Quant. Int. (QI) or 2nd Quant. Reas. (QR)	Experiential Ed. (EE)	Global Issues (GL)
	MATH 232		
US Diversity (US)	North Atlantic World (NA)	World before 1750 (WB)	Beyond the NA (BN)

**SUPPLEMENTAL EDUCATION** Cannot be a course from the major department or any course used to satisfy major requirements. May only double with Connections. A second major or minor, once completed, meets Supplemental Ed. **Courses must be 3 hours or more.**

	1. >199	2. >199	3. >199
--	---------	---------	---------

**MAJOR/MINOR/ELECTIVES**

Additional Requirements		PHYSICS ♦ Core Requirements (9 courses)				
MATH 231(#)	CHEM 101 101L(#)	PHYS 118(#)	PHYS 211 (F) or 311			
MATH 232(#)	CHEM 102(#)	PHYS 119(#)	PHYS 331			
MATH 233(#)	CHEM 261(#)	PHYS 131 (#) (S)	PHYS 351 (F)			
MATH 383(#)	CHEM 481	PHYS 131L or 281L(#)	PHYS 581 or 582			
BIOL 101 BIOL 101L (#)		PHYS 201 (S) or 401				
BIOL 202 or 271(#)						

♦ 18 hours ≥ C (not C-) required in Core Requirements. No more than 45 hours of PHYS courses will count toward the degree.

Substitutions for required physics courses require approval of the Director of Undergraduate Studies.

(#) Should ideally be taken prior to the Junior year. Consult the suggested course of study

PHYS 131 and 201 are offered only in the spring; PHYS 211 and 351 are offered only in the fall.

Remaining courses after this term:	Hours to be deducted:	Hours Tally:	Notes:
___ Foundations _____	Repeated courses _____	Hours to date: _____	
___ Approaches _____	HSFL _____	Hours in progress _____	
___ Connections _____	Online courses > 24 _____	Pending Study Abroad* _____	
___ Supplemental _____	Other _____	Subtotal _____	
___ (hrs C _____) _____	Professional School > 30 _____	Hours deducted _____	
___ (hrs C _____) _____	Hours in subject (BA) > 45 _____	Hours after this term _____	
___ (hrs C _____) _____	Total _____	Hours remaining to grad _____	
___ Requirements subtotal _____		Semesters left _____	
___ Total _____			
		*Pending study abroad hours may differ from hours earned.	

**This tally assumes successful completion of presently enrolled courses (not AB or IN), and it does not account for all possible overlaps**