

# B.S. in Physics

## Sample Program Outline/Advising Guide

Fall		Spring	
<b>FIRST YEAR</b>			
PHYS 120: Physics First Year Experience	1	PHYS 125: Analytical Physics II	3
PHYS 123: Analytical Physics I (NLEC)	3	PHYS 126: Analytical Physics II Laboratory	1
PHYS 124: Analytical Physics I Lab (NLAB)	1	MATH 222: Calculus II	4
MATH 221: Calculus I (REAS)	4	World Language 102 (LANG)	4
WRTG 105: Writing Seminar: (subtitle)	4	Global Society (CAI)	3
World Language 101 (LANG)	4		
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>15</b>
<b>SECOND YEAR</b>			
PHYS 223: Analytical Physics III	3	PHYS 224: Analytical Physics IV	3
PHYS 226: Optics & Modern Phys Lab	1	PHYS 228: Math Methods in Physics	2
PHYS 261: Programming in Physics	3	MATH 326: Differential Equations	3
MATH 223: Calculus III	4	Global Society (SST)	3
Global Society (CGC)	3	Global Society (WCV)	4
Global Society (DPP)	3		
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>15</b>
<b>THIRD YEAR</b>			
PHYS 311: Classical Mechanics	3	PHYS 341: Seminar in Physics	1
PHYS 352: Quantum Mechanics I	3	PHYS 463 or 472	2
PHYS 362: Intermediate Laboratory	3	PHYS 300-level Elective	3
N/Lab Science I	4	Lab Science II	4
Electives	2	Elective	3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>13</b>
<b>FOURTH YEAR</b>			
PHYS 335: Intermediate Electricity and Magnetism I	3	PHYS 344: Statistical Thermodynamics	3
PHYS 300-level Elective	3	Electives	10
Integrative and Applied Learning	3		
Electives	6		
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>13</b>

Total Credits = **120**  
Gen Ed Subtotal = **36**

### Special Instructions:

Directed Study cannot count for the elective credits in physics.

Students may count only one of the following towards the major: PHYS 463 or 472

### General Education Requirements

#### 1. Communicaiton and Scientific Literacy (CSL)

- INTD 105, Lang, Quant, and Nat Sci with Lab

#### 2. Participation in Global Society (PGS)

- DPP, WCIV, CGC, CAI, and SST

### Rules:

At least 4 unique courses for PGS

No more than one course used twice in PGS

Only one course from your major may be used for PGS

Courses used to satisfy CSL cannot double dip for PGS