

# B.A. in Physics, Adol. Educ: Physics & Gen Science

Sample Program Outline/Advising Guide

Fall		Spring	
<b>FIRST YEAR</b>			
PHYS 123: Analytical Physics I (NLEC)	3	PHYS 125: Analytical Physics II	3
PHYS 124: Analytical Physics I Lab (NLAB)	1	PHYS 126: Analytical Physics II Laboratory	1
MATH 221: R/Calculus I	4	MATH 222: Calculus II	4
INTD 105: Writing Seminar: (subtitle)	3	Participation in Global Society (CGC/SST)	3
World Language 101 (LANG)	4	World Language 102 (LANG)	4
<b>Total</b>	<b>15</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	PSYC 216: S/Adolescent Development	3
INTD 203: Social Found of Educ in the US (DPP)	3	Lab Science II	4
N/Lab Science I	4	H&PE 350: Health & Safety Issues in Schools	1
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>16</b>
<b>THIRD YEAR</b>			
PHYS 352: Quantum Mechanics I	3	PHYS 341: Seminar in Physics	1
PHYS 362: Intermediate Laboratory	3	PHYS 300-level Elective	3
EDUC 204: Dimensions of Teaching	3	INTD 301: Topics in Sec Educ: Science	3
EDUC 206: Practicum: Dimentions of Teaching	1	INTD 302: Methods and Materials in Sec Ed	3
SPED 205: Teach Sec Learners with Sp Needs	3	Participation in Global Society (WCV)	4
EDUC 215: Found of Literacy in Sec School	3		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>14</b>
<b>FOURTH YEAR</b>			
EDUC 340: Student Teaching - Middle School	7.5	PHYS 344: Statistical Thermodynamics	3
EDUC 350: Student Teaching - High School	7.5	PHYS 300-level Elective	3
(counts for Integrative and Applied Learning)		PHYS 300-level Elective	3
		Participation in Global Society (CAI)	3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>12</b>

Total Semester Hours = **121**

Gen Ed Subtotal = **32**

### Special Instructions:

Students may not receive degree credit for both PHYS 313 (Applied) and PHYS 332 (ECA).

Application to the School of Education at the end of the first year is recommended.

Student Teaching must be in the Fall semester.

### 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