

**Astronomy B.S. Recommended Curriculum General Course Sequence 4-Year Version**  
**11/04/09**

**Freshman Year Fall Semester**

<u>Course</u>	<u>Credit Hours</u>
PHYS 1310 College Physics I	4
MATH 2200 Calculus I (QB)	4
Writing 1 (WA)	3
Foreign Language	4
Physical Activity & Health (P)	<u>1</u>
	16

**Freshman Year Spring Semester**

<u>Course</u>	<u>Credit Hours</u>
PHYS 1320 College Physics II	4
MATH 2205 Calculus II	4
ASTR 2310 General Astronomy	4
Foreign Language	4
Intellectual Community (I) and Information Literacy (L)	<u>1</u>
	17

**Sophomore Year Fall Semester**

<u>Course</u>	<u>Credit Hours</u>
PHYS 2310 College Physics III	4
MATH 2210 Calculus III	4
*COSC 1010 Computer Science I	4
Cultural Context (C, CH, CS, CA), U.S. Diversity (D), Global Awareness (G)	<u>3</u>
	15

**Sophomore Year Spring Semester**

<u>Course</u>	<u>Credit Hour</u>
PHYS 2320 College Physics IV	3
ASTR 2320 General Astronomy	4
PHYS 4210 Classical Mechanics I	3
MATH 2250 Elementary Linear Algebra	3
Oral Communication (C)	<u>3</u>
	16

### Junior Year Fall Semester

<u>Course</u>	<u>Credit Hours</u>
PHYS 4310 Quantum Mechanics	3
PHYS 4410 Electricity and Magnetism I	3
MATH 2310 Applied Differential Equations	3
Writing 2 (WB)	3
U.S. & Wyoming Constitutions (V)	<u>3</u>
	15

### Junior Year Spring Semester

<u>Course</u>	<u>Credit Hours</u>
elective	3
PHYS 4420 Electricity and Magnetism II	3
ASTR 4610 Intro Astrophysics	3
Cultural Context (C, CH, CS, CA), U.S. Diversity (D), Global Awareness (G)	3
Upper Division (3000 level or higher, not in physics dept.)	<u>3</u>
	15

### Senior Year Fall Semester

<u>Course</u>	<u>Credit Hours</u>
PHYS 4510 Thermodynamics and Statistical Mechanics	3
Upper Division (3000 level or higher, not in physics dept.)	3
PHYS 3650 Optics/Electronics Lab	4
Upper Division (3000 level or higher, not in physics dept.)	<u>3</u>
	16

### Senior Year Spring Semester

<u>Course</u>	<u>Credit Hours</u>
PHYS 4970 (Indep. Research) (replaces Optics/Electronics Lab II)	3
ASTR 4860 Independent Research in Astronomy	3
Cultural Context (C, CH, CS, CA), U.S. Diversity (D), Global Awareness (G)	3
Non-Western (NW)	<u>3</u>
	12

### Total Credit Hours

120

\* - Suggested Courses

\*\* - Sequence Is Designed To Allow the General Student To Take the Physics GRE Exam Reasonably Successfully in the First Semester of the Senior Year.