

Physics B.S. Recommended Curriculum General Course Sequence Short 4-Year Version

6/9/05

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
Foreign Language	4
Intellectual Community (I) and Information Literacy (L)	1
CHEM 1020 General Chemistry	<u>4</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 or 1030 Computer Science I	4
Oral Communication (C)	<u>3</u>
	15

Sophomore Year Spring Semester

<u>Course</u>	<u>Credit Hours</u>
PHYS 2320 College Physics IV	3
EE 2210 Electronics Lab. (Replaces PHYS 3650 Optics/Electronics Lab I)	4
PHYS 4210 Classical Mechanics I	3
MATH 2250 Elementary Linear Algebra	<u>3</u>
	13

Junior Year Fall Semester

<u>Course</u>	<u>Credit Hours</u>
PHYS 4310 Quantum Mechanics I	3
PHYS 4410 Electricity and Magnetism I	3
MATH 2310 Applied Differential Equations	3
MATH 4230 Introduction to Complex Analysis (Upper Division)	3
Writing 2 (WB)	<u>3</u>
	15

Junior Year Spring Semester

<u>Course</u>	<u>Credit Hours</u>
*PHYS 4350 Atomic and Molecular Physics (Quantum Mech. II)	3
PHYS 4420 Electricity and Magnetism II	3
MATH 4440 Partial Differential Equations I (Upper Division)	3
Cultural Context (C, CH, CS, CA), U.S. Diversity (D), Global Awareness (G)	3
U.S. & Wyoming Constitutions (V)	<u>3</u>
	15

Senior Year Fall Semester

<u>Course</u>	<u>Credit Hours</u>
PHYS 4510 Thermodynamics and Statistical Mechanics	3
Cultural Context (C, CH, CS, CA), U.S. Diversity (D), Global Awareness (G)	3
Upper Division (3000 level or higher, not in math or physics dept.)	3
Cultural Context (C, CH, CS, CA), U.S. Diversity (D), Global Awareness (G)	<u>3</u>
	12

Senior Year Spring Semester

<u>Course</u>	<u>Credit Hours</u>
upper division elective	3
PHYS 4970 (Indep. Research) (replaces Optics/Electronics Lab II)	3
PHYS 4840 Mathematical and Computational Physics II	3
Non-Western (NW)	<u>3</u>
	12

Total Credit Hours
115

* - 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.