

Physics *Plus* B.S. Program Course Check List Requirements – 10/27/09

** Indicates courses offered in alternating years (S) - Spring Only (F) - Fall Only

<u>Physics Courses</u>	<u>Credits</u>	<u>Prerequisites</u>	
PHYS 1310 College Physics I	4	(Conc. MATH 2200)	_____
PHYS 1320 College Physics II	4	1310	_____
PHYS 2310 College Physics III (F)	4	1320	_____
PHYS 2320 College Physics IV (S)	3	1320	_____
PHYS 3650 Physics/Electronics Lab (F**)	4	2320	_____
PHYS 4210 Classical Mechanics I (S)	3	2310	_____
PHYS 4310 Quantum Mechanics I (F)	3	4210	_____
PHYS 4410 Electricity and Magnetism I (F)	3	4210	_____
PHYS 4510 Thermo/Statistical Phys. (Sor F only)	3	4310	_____
PHYS 4830 Mathematical Physics I (F)	3	4210	_____
(can be replaced by <u>BOTH</u> MATH 4230 <u>and</u> 4440)			
PHYS 4840 Computational Methods (S**)	3	COSC1010	_____
PHYS 4970 Capstone Research (S)	<u>3</u>	4420	_____
	40		

Elected Technical Area (for example, meteorology)

_____	4		_____
_____	4		_____
_____	4		_____
_____	3		_____
_____	3		_____
(upper division 3000+ level)	3		_____
(upper division 3000+ level)	3		_____
(upper division 3000+ level)	<u>3</u>		_____
	27		

<u>Mathematics Courses</u>	<u>Credits</u>	<u>Prerequisites</u>	
MATH 2200 Calculus I (QB)	4		_____
MATH 2205 Calculus II	4	2200	_____
MATH 2210 Calculus III	4	2205	_____
MATH 2250 Elementary Linear Algebra	3	2200	_____
MATH 2310 Applied Differential Eqns	<u>3</u>	2205	_____
	18		

<u>Misc. Technical Courses</u>	<u>Credits</u>	<u>Prerequisites</u>	
COSC 1010 Intro Computer Science	4		_____
CHEM 1020 General Chemistry I (S,SB)	4		_____

<u>University Studies Courses</u>	<u>Credits</u>	<u>Prerequisites</u>
Physical Activity & Health (P)	1	_____
Intellectual Community (I) and Information Literacy (L)	1	_____
Foreign Language	4	_____
Foreign Language	4	_____
Writing 1 (WA)	3	_____
Writing 2 (WB)	3	_____
Writing 3 (WC - usually ENGL 4010)	3	_____
Oral Communication (O)	3	_____
U.S. & Wyoming Constitutions (V)	3	_____
Non-Western (NW)	3	_____
Cultural Context (C or CH) May also satisfy D (Diversity) or G (Global)	3	_____
Cultural Context (C or CA) May also satisfy D (Diversity) or G (Global)	3	_____
Cultural Context (C or CS) May also satisfy D (Diversity) or G (Global) (assumes that 9 credits of upper division are taken as part of Physiscs+ in elected area)	3	_____

	37	
Total	130	

Minimum 120 credits total for degree Minimum 48 hours from 3000+ level classes

Also highly recommended for grad-school track students are

<i>MATH 4230 Complex Analysis (Upper Division) (S)</i>	3	<i>MATH2210</i>
<i>MATH 4440 Partial Diff. Equations (Upper Division) (S)</i>	3	<i>MATH2210</i>
<i>PHYS 4350 Atomic & Molecular Physics (S**)</i>	3	<i>MATH4310</i>
<i>PHYS 4830 Mathematical Methods I (F)</i>	3	