

The following courses are for the major requirements and are offered in no particular order. Please consult with your advisor for scheduling sequence.

<u>COURSE</u>	<u>USP</u>	<u>CREDITS</u>	<u>PREREQUISITES</u>
<input type="checkbox"/> PHYS 1210 Engineering Physics I	SP	4.0	C in MATH 2200 & MATH 2205 concur
<input type="checkbox"/> PHYS 1220 Engineering Physics II	SP	4.0	C in PHYS 1210, MATH 2200,2205&2210concur
<input type="checkbox"/> PHYS 2310 Physics III: Waves and Optics (F)		4.0	1320
<input type="checkbox"/> PHYS 2320 Physics IV: Modern Physics (S)		3.0	1320
<input type="checkbox"/> PHYS 3640 Modern Electronics & Experimental Techniques (F)		4.0	2320
<input type="checkbox"/> PHYS 3650 Adv Lab in Modern Phys & Elect (S)		4.0	2320
<input type="checkbox"/> PHYS 4210 Classical Mechanics (S)		3.0	2310
<input type="checkbox"/> PHYS 4310 Quantum Mechanics (F)		3.0	4210
<input type="checkbox"/> PHYS 4410 Electricity and Magnetism I (F)		3.0	4210
<input type="checkbox"/> PHYS 4420 Electricity and Magnetism II (S)		3.0	4410
<input type="checkbox"/> PHYS 4510 Thermodynamics & Stat Mechanics		3.0	4310
<input type="checkbox"/> PHYS 4840 Mathematical & Comp Physics II (S**)		3.0	
<input type="checkbox"/> ASTR 2310 General Astronomy I (S**)		4.0	PHYS1210, MATH2200
<input type="checkbox"/> ASTR 2320 General Astronomy II (S**)		4.0	PHYS1210, MATH2200
<input type="checkbox"/> ASTR 4610 Introduction to Astrophysics (S)		3.0	ASTR2310, PHYS4410
<input type="checkbox"/> MATH 2200 Calculus I	QB	4.0	C in MATH 1405 or 1450 or level 5 Math Placement or Math ACT 27 or SAT 600
<input type="checkbox"/> MATH 2205 Calculus II		4.0	C in 2200
<input type="checkbox"/> MATH 2210 Calculus III		4.0	C in 2205
<input type="checkbox"/> MATH 2250 Elementary Linear Algebra		3.0	C in 2200 or 2350
<input type="checkbox"/> MATH 2310 Applied Differential Equations I		3.0	C in 2205
<input type="checkbox"/> COSC 1010 Intro to Computer Science I		4.0	C in MATH 1400 or level 4 Math Placement within 1 yr prior
Misc. Upper Division – 8 hours			
<input type="checkbox"/> Course: _____	_____	_____	_____
<input type="checkbox"/> Course: _____	_____	_____	_____
<input type="checkbox"/> Course: _____	_____	_____	_____
Select from:			
ENGL 4010 Technical writing (pre: WA, WB)			
CHEM 4505 Physical Chemistry (pre: CHEM 1030)			
GEOL 3500 Global Change (pre: none)			
GEOL 4200 Planetary Geology (pre: none)			
PHIL 3140 Philosophy of Science (pre: 6 hrs of science)			
PHIL 3500 History of Science (pre: 3hrs of PHIL, 3 hrs of science)			
COSC 4530 Image Processing (pre: MATH 2205, 2250, COSC 1030)			
STAT 4220 Engineering Statistics (pre: MATH 2204)			
MATH 4230 Complex Analysis (pre: MATH 2210)			
MATH 4340 Numerical Analysis (MATH 2310, 2250, COSC1030)			
MATH 4440 Partial Diff Eqns (pre: MATH 2210)			
PHYS 4350 Atomic & Molecular Physics (pre: PHYS 4210, 4310, 4420, MATH 4440)			
PHYS 4510 (Statistical Mechanics (pre: PHYS 4310)			
PHYS 4830/40 Math Physics I, II (pre: PHYS 2310 or 2320; MATH 2210)			
ASTR 4610 Astrophysics (pre: ASTR 2310)			
ASTR 5420/30 Stellar Atmospheres			
ASTR 5440 Milky Way			
ASTR 5460 Cosmology			
ASTR 5465 Galaxies			
ASTR 5470 Interstellar Matter			
ASTR 5150 Astrophysical Techniques			