

**APPLIED PHYSICS BS REQUIREMENTS CHECKLIST
(OPTICS)**

NAME _____
ID # _____

FRESHMAN-FALL			FRESHMAN-SPRING		
___ 29:27	Physics I	4	___ 29:28	Physics II	4
___ 22M:25	Calculus I	4	___ 22M:26	Calculus II	4

SOPHMORE-FALL			SOPHMORE-SPRING		
___ 29:29	Physics III	4	___ 29:30	Physics IV	4
___ 22M:27	Intro to Linear Alg	3	___ 29:115	Intermediate Mechanics	3
			___ 22M:28	Calculus III	3

JUNIOR-FALL			JUNIOR-SPRING		
___ 29:129	Electricity & Magnetism	3	___ 29:128	Electronics	3
___ 29:140	Intro Quant Mech I	3	___ 29:180	Electro Fdtn of Optics	3
			___ 29:130	Electricity & Magnetism	3

SENIOR-FALL			SENIOR-SPRING		
___ 29:118	Statistical Physics	3		Optics Elective*	
___ 29:132	Intermediate Lab	3			
	Optics Elective*				

Coop – Choose any one of the following:

- 1 semester working full time
- 1 summer working full time
- 2 semesters working part time (50%)

Optics Electives:

*Students must take 2 of: 29:174, 29:182, 29:184, 29:193
All requirements of Physics BS required except: 29:141.

GEs Not Satisfied By Physics Major:

___ Rhetoric	10:___ 3-4 sh	___ Humanities	3 sh
	10:___ 4 sh		
___ Foreign Lang		___ Social Science	3 sh
	Last course in sequence		
___ Interp of Lit 8G:1	3 sh	___ Distributed Ed	3 sh**
___ Hist Perspect	3 sh	___ Distributed Ed	3 sh**

**6 hours with a minimum of 3 hours chosen from each of 2 of these: Cultural Diversity, Fine Arts, Foreign Civilization and Culture, Historical Perspectives, Humanities, PE, Social Science

10/2007

Physics Electives

29:119	Intro to Astrophysics I
29:120	Intro to Astrophysics II
29:128	Electronics (may not be repeated)
29:133	Advanced Lab (third semester)
29:171-172	Mathematical Methods
29:174	Intro to Laser Physics
29:180	Electromag Fundamentals of Optics
29:182	Electro-Optics
29:184	Optical Signal Processing
29:186	Radio Astronomy
29:192	Elementary Particles/Nuclear Physics
29:193	Intro to Solid State Physics
29:194	Plasma Physics
29:195	Plasma Physics
29:196	Fluid Mechanics

Mathematics Electives

22M:100	Intro to Ordinary Differential Equations
22M:118	Complex Variables
22M:142	Nonlinear Dynamics and Chaos
22M:144	
22M:170	Numerical Analysis Nonlinear Eqn Approx Theory