Physics Major Checklist

Name:	ame: Anoth		er Major?:		Class Year:		
Foundational			<u>Prerequisite</u>				
PHYS 141 Mechanics			Math-	-131 (or co	ncurrent)		
PHYS 231 Electricity & Magi	netism		Math-132 (or concurrent)				
PHYS 232 Optics and Moder	n Physics		PHYS 141; MATH 132 (or concurrent); concurrent MATH 23 recommended				
Required courses outside the depa	rtment						
MATH 231 Calculus III: Multi	Calculus III: Multivariable Calc			MATH 132			
MATH 234 Differential Equat	rential Equations			MATH 132			
CHEM 111L Introductory Cher	nistry I (oi	r AP credit)					
Math / Experimental Methods							
PHYS 300 Mathematical Me	thods of I	Physics	PHYS 231 & MATH 231, concurrent MATH 234 recommended				
PHYS 320 Modern Physical I	Modern Physical Measurements		PHYS 231 & 232 Fulfills Writing II requirement				
Three additional advanced-level co	ourses, a	at least tv	wo of which r	nust be	core courses		
Core							
PHYS 301 Analytical Mecha	Analytical Mechanics		PHYS 231 & either MATH 231 or 234				
PHYS 302 Electrodynamics	Electrodynamics		PHYS 231 & MATH 231, concurrent MATH 234 recommended				
PHYS 313 Quantum Mechar	Quantum Mechanics		PHYS 232				
Elective							
	Statistical & Thermal Physics		PHYS 141 & MATH 132				
PHYS 316 Experimental Lase	Experimental Laser Optics		PHYS 231 & 232 Fulfills Writing II requirement				
PHYS 317 Relativity & Fundo	damental Particles		PHYS 231 & 23	IYS 231 & 232			
PHYS 330 Astronomy & Astr	ophysics		PHYS 231 & 232 (or permission of instructor)				
Senior project							
PHYS 405 Senior Exercise	[½ credit]						
Physics courses offered every year	Fall:	PHYS 141,	232	Spring:	PHYS 231, 300, 301		
Physics courses offered every other year	Fall:	PHYS 313,	330	Spring:	PHYS 317, 320		
,	Fall:	PHYS 302,		Spring:			

Study Plan Worksheet Most physics electives are offered in alternating years, so taking the foundational courses as early as early as possible will give you the most flexibility in your schedule.

	Fall	Spring
First-Year	PHYS 141	PHYS 231
	MATH 131	MATH 132
Sophomore	PHYS 232	PHYS 300
	MATH 231	PHYS-301
		MATH 234
Junior		
Senior		

Other Academic Considerations

_____ Study abroad?:

_____ Second major?:

Other courses you should consider

Applied math Scientific computing Engineering

Research

_____ Faculty research (PHYS 490):

____ Summer research on campus:

____ Summer REU/other research experience:

Grad School

Interest	in	going	to	grad	school	?
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Honors

Sigma Pi Sigma: Sigma Pi Sigma is the national physics honor society. To be eligible for membership, a student must have an overall GPA of at least 3.5, have completed at least four courses at Trinity towards the physics major, and have an A- average in physics courses. In addition, they must have done one of the following: participated in activities of the SPS, been a physics TA or grader, done research for credit in a physics faculty lab, or completed an additional physics course at Trinity or at another institution.

Honors in Physics at graduation: To be eligible for honors in physics at graduation a student must complete at least one additional physics course beyond the minimum required for the major, and have an average of at least a B+ in all physics courses. The additional course may be a semester of independent research (PHYS 399) or research (PHYS 490).

General education requirements

- □ Arts
- □ Humanities
- □ Social Sciences
- Writing I
 Writing II
 and I
- □ 2nd language

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