## **Physics Major Checklist**

Name:				_ Class	Class Year:	
Founda	ational		Prere	quisit <u>e</u>		
	PHYS 141 Mechanics			Math-131 (or concurrent)		
	PHYS 231 Electricity & Magnetism			Math-132 (or concurrent)		
	PHYS 232 Optics and Modern Physics		PHYS	PHYS 141; MATH 132 (or concurrent); concurrent MATH 231 recommended		
Requir	ed cour	ses outside the department				
	MATH 23	31 Calculus III: Multivariable Co	alc MATH	132		
	MATH 234 Differential Equations		MATH	MATH 132		
	CHEM 11	.1L Introductory Chemistry I (or	AP credit)			
Math /	/ Experir	mental Methods				
PHYS 300			Physics PHYS	231 & MATH 231, co	ncurrent MATH 234 recommended	
PHYS 320			-	PHYS 231 & 232 Fulfills Writing II requirement		
Three a	addition	al advanced-level courses, a	t least two of	which must be co	ore courses	
	PHYS 301	Classical Mechanics	PHYS :	231 & either MATH 2	231 or 234	
PHYS 302		2 Electrodynamics	PHYS :	PHYS 231 & MATH 231, concurrent MATH 234 recommended		
	PHYS 313	B Quantum Mechanics	PHYS :	PHYS 232		
ELECTIVE						
PHYS 304		Statistical & Thermal Physic	s PHYS:	PHYS 141 & MATH 132		
PHYS 315 Cor				PHYS 231 & 232		
<del></del>		•		PHYS 231 & 232		
	PHYS 317	Relativity & Fundamental Po	articles PHYS ?	231 & 232		
Senior ——	project PHYS 405	Senior Exercise [½ credit]				
Physics	s courses o	offered every year Fall:	PHYS 141, 232	Spring:	PHYS 231, 300	
Physics	s courses (	offered every other year Fall:	PHYS 304, 313 PHYS 301, 315		PHYS 302, 316 PHYS 317, 320	
•		rksheet Most physics electives will give you the most flexibility in y		ternating years, so ta	aking the foundational courses as earl	
	possible v		rour scriedule.	Spring		
First-Ye		PHYS 141		PHYS 231		
		MATH 131		MATH 132		
Sophor	more	PHYS 232		PHYS 300		
		MATH 231		MATH 234		
Junior						
Senior						

Otner .	Academic Considerations
	Study abroad?:
	Second major?:
Resear	rch
	Faculty research (PHYS 490):
	Summer research on campus:
	Summer REU/other research experience:
Grad S	chool
	Interest in going to grad school?

## **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).