Physics Major Checklist

Name:			Anoth	er Major?:		Class Year:	
Found	lational				<u>Prerequisite</u>		
	PHYS 141	Mechanics			Math-1	131 (or co	ncurrent)
	PHYS 231	Electricity & Magne	etism		Math-1	132 (or co	ncurrent)
	PHYS 232	Optics and Modern	Physics		PHYS 141; MAT	H 132 (or	concurrent); concurrent MATH 231 recommended
Requi	red courses	outside the depai	tment				
•	MATH 231	Calculus III: Multivo		alc	MATH 132		
	MATH 234	Differential Equation	ons		MATH 132		
	CHEM 111L	Introductory Chem		AP credit)			
Math	/ Experimen	tal Methods					
	PHYS 300	Mathematical Met	hods of I	Physics	PHYS 231 & MA	TH 231, c	oncurrent MATH 234 recommended
	PHYS 320	Modern Physical M	leasuren	nents	PHYS 231 & 232	2 Fulfill	s Writing II requirement
Three	additional a	dvanced-level co	urses, a	at least tv	vo of which n	nust be d	core courses
Core							
	PHYS 301	Classical Mechanic	s		PHYS 231 & eith	ner MATH	231 or 234
	PHYS 302	Electrodynamics			PHYS 231 & MA	TH 231, c	oncurrent MATH 234 recommended
	PHYS 313	Quantum Mechani	cs		PHYS 232		
ELECTIVE							
	PHYS 304	Statistical & Therm	al Physic	CS .	PHYS 141 & MA	TH 132	
	PHYS 315	Contemporary Opt	ics		PHYS 231 & 232	<u>)</u>	
	PHYS 316	Experimental Laser	Optics -		PHYS 231 & 232	. Fulfills	s Writing II requirement
	PHYS 317	Relativity & Fundar	mental P	articles	PHYS 231 & 232	<u>)</u>	
	PHYS 330	Astronomy & Astro	phys: Th	eory/Obs	PHYS 231 & 232	or perm	ission of instructor)
Senio	r project						
	PHYS 405	Senior Exercise [2	½ credit]				
Physic	s courses offer	ed every year	Fall:	PHYS 141,	232	Spring:	PHYS 231, 300, 301
Physic	s courses offer	ed every other year	Fall:	PHYS 313,	330	Spring:	PHYS 317, 320
1 119310	.5 5541363 01161	ca every outlet year	Fall:	PHYS 302,		Spring:	PHYS 316, new elective coming
Study	Plan Works	heet Most nhysics	elective	s are offere	nd in alternating	vears so	taking the foundational courses as ea
		ive you the most flexi				y cars, 30	taking the foundational courses as ea

	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?
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 of 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 II □ Wellness □ IPE