## Physics BS Degree (entered 2016-18) -32 Course Units

## MAJOR COURSE REQUIREMENTS

NAME:					2 <sup>nd</sup> Major*:
Year:	1 <sup>st</sup> Yr	2 <sup>nd</sup> Yr	3 <sup>rd</sup> Yr	4 <sup>th</sup> Yr	1 <sup>st</sup> Minor*:
PHY Specialization:					2 <sup>nd</sup> Minor*:

<sup>\*</sup>One course can double count for major and minor. Three courses may double count for students who are double majors.

Core Courses	Major Options Courses	<b>Correlate Courses</b>	
☐ PHY 099 – Orientation Seminar	5 option units required, 200+ level PHY. 2	☐ MAT 127 – Calculus A	
□ PHY 203 – Physics I	must include a lab from below. 1 unit max	☐ MAT 128 – Calculus B	
□PHY 204 – Physics II	may be from combined 290, 291, 393, 493.	STEM Courses	
□PHY 299 – Research Fund'ls	☐ PHY 220 (Lab) – Advanced Geology	5 units required from	
□ PHY 306* – Math Physics	□ PHY 311 (Lab) – Electronics	Schools of Science or	
□ PHY 321 – Modern Physics	☐ PHY 345 (Lab) – Clouds & Climate	Engineering. 200+ level	
□ PHY 356 – Thermal Physics	☐ PHY 411 (Lab) – EM Waves & Optics	(min of 3). 1 unit max may	
□ PHY 401 – Classical Mechanics	☐ PHY 451 (Lab) – Advanced Lab	be from combined 290, 291, 393, 493. List 5 STEM	
□ PHY 421 – EM Theory I	List remaining options courses below:	courses below:	
*BOTH of the following courses	□РНҮ		
may be taken in place of PHY306:  □MAT 205 – Linear Algebra	□РНҮ		
□ MAT 229 – Calculus C	□PHY		
Graduation Requirements	Capstone Course		
☐ Completion of PHY reqs.	One of the following courses is required.		
☐ 2.0 or better in-major GPA	☐ PHY 451 – Advanced Lab	Further Information	
□ 2.0 or better overall GPA	□PHY 493 – Independent	Upper level PHY courses are not offered every semester. Schedule is	
☐ C or better in PHY203, 204, 321	☐ SED 498 – For Secondary Ed	here: physics.tcnj.edu/physics-	
☐ Complete 32 course units	Students	upper-level-course-timetable/ Specializations: physics.tcnj.edu/	
		academics/programs/	

## LIBERAL LEARNING REQUIREMENTS, CIVIC RESPONSIBILITIES, AND PROFICIENCIES

Liberal Learning	Liberal Learning (Option C)	Civic Responsibilities
Select one of the options below. (Option C most common)	Option C – 8 Required Courses**	Fulfilled through courses, programs or sustained experiences
☐ Option A – Designated Interdisciplinary Concentration OR Second Major*	☐ Literary, Visual, Performing Arts (LVPA) <u>List course</u> :	☐ IDS 103 – Community Engaged Learning
☐ Option B – Self-designed Interdisciplinary Concentration*	☐ World Views/Ways of Knowing (WV) <u>List course</u> :	☐ Gender <u>List course</u> :
☐ Option C – Breadth Distribution List 8 courses required – See next column.	☐ Behavioral, Social, or Cultural Perspectives (BSCP) <u>List course</u> :	☐ Global Perspective <u>List course</u> :
*see: https://liberallearning.tcnj.edu/courses- information/interdisciplinary-concentrations/	☐ Social Change in Historical Perspective (SCHP) <u>List course</u> :	☐ Race & Ethnicity List course:
Language	☐ 2 additional courses from: LVPA,	Proficiencies
☐ Second language proficiency at 1st level (101)	WV/WK, BSCP, or SCHP	□ IDS 102
<u>List course</u> :	<u>List course</u> :	□ WRI 102
☐ Second language proficiency at 2nd level (102)	<u>List course</u> :	☐ FSP First Year Seminar
<u>List course</u> :		Electives
☐ Second language proficiency at 3rd level (103)	□ Natural Science: PHY 203	List three elective courses.
<u>List course</u> :	☐ Quantitative Reasoning: MAT 127	□ Elective 1:
**Note: By testing out of Lang. courses, you satisfy	**Table of approved liberal learning course:	□ Elective 2:
this requirement but do not receive any course units. You must take 3 additional electives in any dept.	https://liberallearning.tcnj.edw/fulfilling- requirements/approved-liberal-learning-courses/	□ Elective 3: