

PHYSICS – (PHYS_BS_01)
BS DEGREE – 32 COURSE UNITS
MAJOR COURSE REQUIREMENTS

Fulfill via completion of course requirements in three categories

Core Courses (7)	Major Options or Specialization Courses (10 Course Units)	Correlate Courses (2)
PHY 099 – Orientation Seminar (0 cred)	5 Physics option courses*	MAT 127 – Calculus A
PHY 203 – Physics I for Physicists	5 Specialization options**	MAT 128 – Calculus B
PHY 204 – Physics II for Physicists	1 Capstone course***	
PHY 306 – Mathematical Physics		
PHY 321 – Modern Physics		
PHY 401 – Classical Mechanics		
PHY 356 – Thermal Physics		
PHY 421 – Electromagnetic Theory I		
PHY 299 – Research Fundamentals Seminar (0.25 credits, required only for students matriculating Fall 2015 or later)	* All 5 options must be 200+ level PHY courses. 2 courses must include a lab chosen from PHY 311, 345, 411, 451. 1 course may be Independent Research.	
	**3 courses may be any course from the school of science or engineering, 2 courses may be from any pre-set physics specialization list OR any 200+ level school of Sci./Eng.	
	***PHY 493, PHY451, or SED 498 (may double count within Physics options or Specialization options)	
<p><i>Seven-course prescribed major specializations may be chosen from within major option and specialization courses. Prescribed specializations are available in Pre-graduate Physics, Biomedical Physics, Computational Physics, Condensed Matter, Geophysics, Astrophysics, and Physical science-Secondary Education. These are outlined on the department website, http://physics.tcnj.edu/academics/programs/.</i></p>		

LIBERAL LEARNING REQUIREMENTS

Fulfill via completing course requirements in one of four options:

Option 1 – Breadth Distribution from Approved List

Arts & Humanities (2 or 3 courses)	Social Science & History (2 or 3 courses)	Natural Sciences & Quantitative Reasoning (Requirements fulfilled by major course)
Literary, Visual, or Performing Arts course	Behavioral, Social, or Cultural Perspectives course	Natural Science course (with lab)
World Views/Ways of Knowing course	Social Changes in Historical Perspective course	Quantitative Reasoning course
FSP or Literary, Visual, or Performing Arts course or World Views/Ways of Knowing course	FSP or Behavioral, Social, or Cultural Perspectives course or Social Changes in Historical Perspective course	Natural Science course or Quantitative Reasoning course

Option 2 – Designated Interdisciplinary Concentration (see <https://liberallearning.tcnj.edu/courses-information/interdisciplinary-concentrations/>)

Option 3– Self-designed Interdisciplinary Concentration (see <https://liberallearning.tcnj.edu/courses-information/interdisciplinary-concentrations/>)

Option 4 – Second Major

CIVIC RESPONSIBILITIES, PROFICIENCIES & ELECTIVES

Fulfill via completion of course requirements in three categories

Civic Responsibilities	Intellectual & Scholarly Growth	Electives
IDS 103 – Community Engaged Learning (zero-credit requirement)	IDS 102 – Information Literacy online tutorial (zero-credit requirement) (WRI 101 or 102 may be required freshmen year)	Elective course
Concepts – (fulfilled through liberal learning, other courses, or sustained experience)	Writing Intensive Courses	Elective course
Gender	FSP First Seminar course (satisfies one liberal learning requirement)	
Global Perspective	Mid-level course (usually fulfilled by option or specialization course)	
Race & Ethnicity	Capstone course (usually fulfilled by option or specialization course)	
	Second Language (0-3 courses)	

