

B.S. AND B.A. IN PHYSICS

UNIVERSITY OF ST. THOMAS, COLLEGE OF ARTS AND SCIENCES

Required Physics Courses

		B.S.	B.A.
PHYS 111	Introduction to Classical Physics I	■	■
PHYS 112	Introduction to Classical Physics II	■	■
PHYS 215	Foundations of Modern Physics: From the Atom to the Big Bang	■	■
PHYS 225	Applications of Modern Physics: From the Atom to the Diode	■	■
PHYS 323	Methods of Experimental Physics	■	■
PHYS 331	Theoretical Mechanics	■	
PHYS 341	Electricity and Magnetism	■	
PHYS 347	Optics	■	
PHYS 410	Statistical Mechanics & Thermal Physics	■	
PHYS 431	Quantum Mechanics	■	

Physics Electives

For a B.S. in physics you will need to complete 1 additional physics course, selected from PHYS 104 or greater, for a total of 11 physics courses and 7 allied courses.

For a B.A. in physics you will need to complete 3 additional physics courses – 1 course must be selected PHYS 104 or greater and 2 courses must be greater than PHYS 301 – for a total of 8 physics courses and 6 allied courses. See below for a listing of additional physics courses.

PHYS 104	Astronomy
PHYS 105	Musical Acoustics
PHYS 342	Electromagnetic Waves
PHYS 494	Research
PHYS 498	Individual Study

Required Allied Courses

ENGR 350	Introduction to Electronics		
or			
ENGR 230 & 240	Digital Design & Circuit Analysis	■	■
MATH 113	Calculus I	■	■
MATH 114	Calculus II	■	■
MATH 200	Multi-Variable Calculus	■	■
MATH 210	Introduction to Differential Equations and Systems	■	■
MATH 240	Linear Algebra	■	
CICS 130	Introduction to Programming and Problem Solving in the Sciences		
or			
CICS 230	Object-Oriented Design and Programming	■	■