

TEACHER LICENSURE IN SECONDARY / MIDDLE LEVEL EDUCATION CO-MAJOR IN SCIENCE (5-8) PLUS PHYSICS (9-12)

UNIVERSITY OF ST. THOMAS, COLLEGE OF ARTS AND SCIENCES

Note: A co-major cannot be a stand-alone major

Education Courses

Block I

EDUC 210	Education's Place in Society
EDUC 211	Field Experience: Introductory (K-12) (0 credit)
EDUC 212	Human Relations and Multicultural Education

Block II

	Praxis I Exam (PPST) required for admission to program
EDUC 330	Psychology for Teaching and Learning
EDUC 331	Field Experience: Introductory (5-8) (0 credit)
EDUC 355	Reading for the 5-12 Teacher

Block III

EDUC 381	Curriculum and Methods for Specific Discipline (5-8) (2 credits)
EDUC 382	Curriculum and Methods for Specific Discipline (5-8) (2 credits)
EDUC 383	Field Experience: Secondary (9-12) (0 credit)

Block IV

	Praxis II Exams (PLT & Content Area) required for licensure
EDUC 456	Inclusive School Communities (2 credits)
EDUC 460	Student Teaching and Seminar (6 credits)
EDUC 461	The Teacher as Educational Advocate

Science and Math Courses

CHEM 111	General Chemistry I
CHEM 112	General Chemistry II
ENGR 350	Introduction to Electronics
GEOL 111	Introductory Physical Geology or one of GEOL 110, 113, 114, 115
MATH 113	Calculus I
MATH 114	Calculus II
MATH 200	Multivariable Calculus
MATH 210	Linear Algebra and Differential Equations

PHYS 104	Astronomy
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 498	Individual Study
CISC 130	Introduction to Programming and Problem Solving in the Sciences

Plus: Four additional credits in PHYS courses other than 101

Plus either:

BIOL 101	General Biology
or the three-course sequence	
BIOL 201	Diversity and Adaptation
BIOL 202	Genetics and Population Biology
BIOL 204	Cellular and Molecular Biology

Plus: Demonstrated competence on all required state standards

To complete a major in Physics (B.A.), two of the following courses are required:

PHYS 105	Musical Acoustics
PHYS 331	Theoretical Mechanics
PHYS 341	Electricity and Magnetism
PHYS 342	Electromagnetic Waves
PHYS 347	Optics
PHYS 410	Statistical Mechanics and Thermal Physics
PHYS 431	Quantum Mechanics
PHYS 494	Research
PHYS 498	Individual Study