

Physics (B.S.)

2023-2024 catalog

Student Name: _____ **ID Number:** _____

Major Requirements

Term Completed/Planned	Grade	Credit	Course #	Title
_____	_____	5	PHY121 and 121L	General Physics I (NSM-L)
_____	_____	5	PHY122 and 122L	General Physics II (NSM-L)
_____	_____	5	PHY245 and 245L	Modern Physics
_____	_____	5	PHY261 and 261L	Electronics
_____	_____	4	PHY351	Classical Mechanics
_____	_____	4	PHY365	Electricity and Magnetism
_____	_____	2	PHY395	Comprehensive Laboratory I
_____	_____	2	PHY396	Comprehensive Laboratory II
_____	_____	2	PHY484	Quantum Mechanics Supplement
_____	_____	4	CHM368	Physical Chemistry: Microscopic Theory
_____	_____	5	CHM115 and 115L	General Chemistry I (NSM-L)
_____	_____	5	CHM116 and 116L	General Chemistry II (NSM_L)
_____	_____	4	MAT145 and 145L	Calculus I (NSM)
_____	_____	4	MAT146 and 146L	Calculus II (NSM)
_____	_____	4	MAT255	Multivariable Calculus

Complete **one (1)** of PHY327 or MAT369

_____	_____	5	PHY327 and 327L	Special Functions of Mathematical Physics
_____	_____	4	MAT369	Modeling and Differential Equations in Biological and Natural Sciences

Complete at least **eight (8)** elective credits, including at least 4 credits in physics, chosen from:

_____	_____	5	PHY317 and 317L	Biophysics
_____	_____	5	BIO473 and 473L	Physiology of Humans and Other Animals
_____	_____	5	BIO475 and 475L	Neurobiology
_____	_____	4	CHM362	Physical Chemistry: Macroscopic Theory
_____	_____	2	CHM430	Advanced Thermodynamic and Separation Lab
_____	_____	2	CHM450	Advanced Spectroscopy and Computational Chemistry Lab
_____	_____	4	CHM481	Instrumental Analysis
_____	_____	4	CHM482	Advanced Inorganic Chemistry
_____	_____	4	CSC371	Computer Organization
_____	_____	4	CSC431	Introduction to AI Robotics
_____	_____	4	DST334	Statistical Modeling
_____	_____	4	MAT369	Modeling and Differential Equations in Biological and Natural Sciences (<i>if not used in place of PHY327 above</i>)
_____	_____	4	MAT455	Numerical Mathematics and Computation

Complete **one (1)** Speaking skill course, chosen from:

_____	_____	4	COM111	Public Speaking (HUM)
_____	_____	4	COM115	Scientific and Technical Public Speaking (HUM)
_____	_____	2	MAT201	Communicating Mathematics
_____	_____	4	HON130	Liberating Letters (HUM)

Abbreviation Key: ML = Modern Language; SC = Signature Curriculum; EM = Engaging Minneapolis; AE = Augsburg Experience; KC = Senior Keystone Course; NSM = Natural Science & Mathematics - no lab; NSM-L = Natural Science & Mathematics-with lab; SBS = Social & Behavioral Science; FA = Fine Arts; HUM = Humanities

Student's Signature Date

Advisor's Printed Name Signature Date

Advisor(s): By signing, you indicate you have verified the accuracy of the information above. Faculty advisors must initial next to each course substitution/waiver and sign this form.