

Physics

The following matrix indicates those courses deemed transferable among institutions listed across the top of the matrix. The numbers on the matrix represent the number of semester hours associated with the course at each institution and which institutions have agreed to transfer the commonly numbered course in each row.

A list of the academic discipline liaisons contacts for each institution are listed at the bottom of this document.

Prefix	Number	GERTA	Course Title	BSC	DCB	DSU	LRSC	MASU	MISU	NDSCS	NDSU	UND	VCSU	WSC	SBC	TMCC	UTTC
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PHYS 100/100L Concepts of Physics

PHYS 162/162L Introductory College Physics II

An introduction to the principles and concepts of physics with the application of minimal mathematics, sufficient to show the logical progression from one topic to the next. General physics for those who do not plan to take advanced courses in science. Topics: Newtonian mechanics and gravitation, work and energy, solids and fluids, vibrations and waves, electricity and magnetism, light, and optics. The laboratory is a corequisite of this course. Prerequisites: PHYS 161.

PHYS 203 Introduction to Physics I

Elementary laws and principles of mechanics and fluids. Prerequisite: MATH 103.

PHYS 204 Introduction to Physics II

Elementary laws of electricity and magnetism, optics, and modern physics. Prerequisite: PHYS 203.

PHYS 211/211L College Physics I

This non-calculus general physics course is recommended for pre-medical or pre-professional students. Topics: Newtonian mechanics and gravitation, work and energy, solids and fluids, heat, and thermodynamics. The laboratory is a corequisite of this course. A student may not receive credit for Physics 211, 211L, Physics 212, 212L and also Physics 161, 161L, and Physics 162, 162L. Prerequisites: College Algebra.

PHYS 212/212L College Physics II

This non-calculus general physics course is recommended for pre-medical or pre-professional students. Topics: vibrations and waves, electricity and magnetism, light and optics, and an introduction to modern physics. The laboratory is a corequisite of this course. A student may not receive credit for Physics 211, 211L, Physics 212, 212L and also Physics 161, 161L, and Physics 162, 162L. Prerequisites: Physics 211.

PHYS 221 General Physics I

Newton's laws; work and energy; impulse and momentum; angular momentum; oscillations; gravity; wave motion; thermodynamics. Corequisite: MATH 166.

PHYS 222 General Physics II

Electricity; Gauss' laws and potential difference; magnetism; Maxwell's equations; optics; introduction to Modern Physics. Prerequisite: PHYS 221. Corequisite: MATH 265.

PHYS 251/251L University Physics I

The calculus-based general physics course sequence for students majoring in chemistry, physics, or engineering. Topics: Newtonian mechanics and gravitation, work and energy, solids and fluids, heat and thermodynamics. The laboratory is a corequisite of this course. A student may not receive credit for Physics 251, 251L, Physics 252, 252L and also Physics 211, 211L, Physics 212, 212L or Physics 161, 161L, Physics 162, 162L. Prerequisites: Calculus I.

PHYS 253/253L University Physics III

Prerequisites: Math 265, Phys 252 and 252L. Corequisite: Phys 253L. Modern physics, a survey covering physics of the 20th and 21st centuries. Topics normally covered include theory of relativity, discov