

LOOKING FOR A SCIENCE CLASS?



The Science Department at Lansing Community College offers a wide range of science courses that are designed to meet many needs including the requirements of most transfer and LCC degree and certificate programs. For further information, see the course catalog or call the Science Department at (517) 483-1092.



ASTR 201 Introductory Astronomy

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH 107 concurrently)

A survey course of astronomy. Topics include the celestial sphere, spectroscopy and astronomical instrumentation; the Earth, the Moon, the Sun and the solar system



BIOL 265 Zoology

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

Topics include principles of taxonomy; early animal development; the diversity of animal body plans; and protozoan biology.

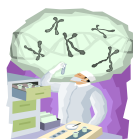


BIOL 120 Environmental Science

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6

Students will develop an ecological knowledge base to allow them to understand how human actions impact the environment.



BIOL 270 Human Genetics

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

Presents general principles of genetics with specific human application.



BIOL 121 Biological Foundations for Physiology

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

Topics include atomic structure, chemical bonding, organic molecules, biological molecules, enzymes, metabolism, cell structure and function



BIOL 275/276 Molecular Biology I and II

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

Study of DNA, RNA and Protein expression, genetic engineering and biotechnology.



BIOL 127 Cell Biology

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

Lecture topics include chemistry of carbohydrates, lipids and proteins; structure and function of prokaryotic and eukaryotic cells. Lab stresses techniques of cell and molecular biology as well as genetics



BIOL 285 Biology in the Tropics

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

This course combines a classroom lecture series with a 10-day field study in a tropical location.



BIOL 128 Organismal Biology

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

This course examines adaptations of organisms to changing environments. Lab topics include a survey of the kingdoms, behavior experiments, and field studies



BIOL 287 Tropical Aquatic Systems

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

This course combines a classroom lecture series with a 10-day field study in a tropical location.



BIOL 145 Introductory Anatomy and Physiology

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6

An introductory course in human anatomy and physiology which combines lecture and laboratory experiences to provide a basic understanding of the structure and function of body systems.



CHEM 120 General Organic and Biological Chemistry

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 4

Introduces topics in general, organic, and biological chemistry that are used in health-related occupations.



BIOL 210 Natural Resource Conservation

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

This course examines the renewable natural resources and the policies which govern their use in Michigan.



CHEM 125 Basic Chemistry

Prerequisite: Reading Level 5 and Writing Level 4 and (Math Level 5 or MATH 107 concurrently)

Intended for students who have not had high school chemistry or who require a refresher course.



BIOL 229 Nature Study for Educators

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

A general biology course for educators and education majors on integrated understanding of the natural world.



CHEM 130 Biochemistry

Prerequisite: Reading Level 5 and Writing Level 6

This course is designed to provide an understanding of the chemistry of life processes.



BIOL 260 Botany

Prerequisite: Reading Level 5 and Writing Level 6

An introduction to the study of plants that includes structure and function, development, and ecology.



CHEM 135 Chemistry in Society

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

A general education course which presents chemistry to non-science majors who must function and make decisions in a society shaped by science and technology.



CHEM 145 Introduction to Forensic Chemistry

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 4 and (Math Level 5 or MATH 107 concurrently)

This course will introduce chemistry from the perspective of forensic laboratory practice. Students will explore a variety of physical and chemical methods of analysis.



CHEM 151 General Chemistry Lecture I
★Meets LCC Science CORE Requirement (with CHEM 161)

Prerequisite: Reading Level 5 and Writing Level 6 and (Math Level 6 or MATH 112 concurrently)

The first of two semester courses designed to provide an in-depth introduction to general chemistry for students who plan careers in the health professions, physical sciences, biological sciences, or engineering.



CHEM 161 General Chemistry Lab I
★Meets LCC Science CORE Requirement (with CHEM 151)

Prerequisite: Minimum 2.0 in CHEM 151 or concurrently and Reading Level 5 and Writing Level 6 and Math Level 5

Laboratory course designed to complement CHEM151. Stresses basic laboratory techniques, writing lab reports, and critical thinking exercises.



CHEM 182 Introductory Organic Chemistry

Prerequisite: Reading Level 5 and Writing Level 6

A survey of the principles of organic chemistry. Introduces the student to structure, nomenclature, chemical and physical properties, preparations and reactions of the most common classes of organic compounds.



CHEM 192 Introductory Organic Chemistry Lab

Prerequisite: Minimum 2.0 in CHEM 182 or concurrently and Reading Level 5 and Writing Level 6

Designed for students in majors such as chemical processing, packaging, agriculture, and forestry who require only one credit of organic lab.



ENVR 121 Environmental Rules and Regulations

Prerequisite: Reading Level 5 and Writing Level 6

Overview of federal and state environmental regulations and agency rules that regulate discharges to air, water, and land.



ENVR 122 Environmental Sampling and Instrumentation

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 5

An introduction to sampling, monitoring procedures and instrumentation. Students will learn to take samples from ground water, surface water, air, and soil.



ENVR 131 Industrial Process Safety

Prerequisite: Reading Level 5 and Writing Level 6

Introduction to general manufacturing processes with emphasis on waste reduction and pollution prevention strategies.



GEOL 221 Physical Geology

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 4

This course investigates the dynamic physical earth using a cause-effect theme, and emphasizes relationships of geologic cycles to modifications of earth's crust



GEOL 222 Historical Geology

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 4

Plate tectonics is used to integrate crustal and organic evolution in the dynamic global system. Includes methods of geologic inquiry and critical evaluation of evidence.



GEOL 230 Environmental Geology

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

Concepts of physical geology are applied to human interaction with the environment. Geologic resources and hazards are explored.



ISCI 121 Integrated Science for Education I

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

The first of two general science courses focusing on the fundamental behavior of matter and energy using a historical and environmental context.



ISCI 131 Integrated Science

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

A general education course designed to provide students with a basic understanding of the methods and applications of science.



ISCI 275 The Advanced Technology Workplace

Prerequisite: Reading Level 5 and Writing Level 6 and (Math Level 6 or MATH 112 Concurrently)

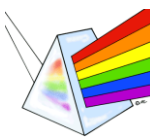
This course will introduce students to vital concepts encountered by employees working in advanced technology regulated environments within the emerging global economy.



NANO 130 Introduction to Nanotechnology

Prerequisite: Reading Level 5 and Writing Level 6 and (Math Level 6 or MATH 112 concurrently)

This course introduces the science of nanotechnology and its potential impact on manufacturing processes and customer products.



PHYS 120 The Art of Physics

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH 107 Concurrently)

This course reveals the wonders of the physical universe by giving students a basic understanding of motion, forces, acoustics and optics.

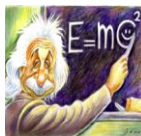


PHYS 200 Introductory Physics with Applications

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

The basic principles of force, work, rate, resistance, energy waves and power are applied to four systems: mechanical, fluid, electrical and thermal systems.



PHYS 221 Introductory Physics I

★Meets LCC Science CORE Requirement

Prerequisite: Reading Level 5 and Writing Level 6 and (Minimum 2.0 in MATH 141 or Math Level 9)

First semester of algebra-based physics with laboratory, presents the fundamental principles of physics, with applications.



PHYS 251 Physics I: Mechanics

★Meets LCC Science CORE Requirement

Prerequisite: (Minimum 2.0 in MATH 152 or MATH 162 or concurrently) and Reading Level 5 and Writing Level 6

First in a two-semester sequence of calculus-based physics with laboratory for science and engineering students.

Looking for a Future?

The Science Department offers degrees in several exciting high-tech fields:

Chemical Technology
Chemical Process Technology
Environmental Technology
Histologic Technology
Molecular Biotechnology
Veterinary Technology



Stop by our office in Arts & Sciences 255 to find out what we're all about!