

CATALOG DESCRIPTION

Study of human body structures including organ, tissue and cellular interrelationships in health and disease. Involves extensive use of models, specimens, histological material, and dissection. Cadaver materials and demonstrations are used.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
AREA B2

IGETC
AREA 5B

OTHER
NONE

PATTERNS
»»»

WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/analytical reasoning
- Can apply knowledge/skills in appropriate settings

Although this course is listed as a GE, this course is NOT recommended for non-allied health majors! This course is an in depth study of human cells, tissues and organ systems, focusing on clinical applications for students pursuing a degree in healthcare. This is a very rigorous course designed with allied health students in mind.

Holly Nash-Rule

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ASTRO 160

INTRODUCTION TO MODERN ASTRONOMY

CATALOG DESCRIPTION

Introductory survey course in astronomy. Emphasis on current studies of the solar system, the study of extrasolar planetary systems, the birth and death of stars, and cosmology.

CSU
GE

GE

PATTERNS



MJC-GE
Area A

CSU-GE
Area B1, B3*

IGETC
Area 5C

OTHER
CC: ASTRO 40

WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/problem solving,
- an evaluate, analyze, and synthesize information from many sources

This course applies the scientific method to critically examine the differences between scientific and pseudoscientific assertions. Astronomy is a historical science that intersects with classic literature, mythologies of ancient cultures, and the development of mathematics. Students will also learn about current scientific research that can be beneficial for all science and technology majors.

Daniel Chase

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x6974

CONTACT

CATALOG DESCRIPTION

Introduction to principles of life, including reproduction, heredity, development, evolution, historical development of biology, molecular biology, and ecology.

This course is offered online.



**CSU
GE**

GE

MJC-GE
Area A

CSU-GE
Area B2, B3*

IGETC
Area 5B, 5C*

OTHER

***There is an
associated lab**

WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/analytical reasoning
- Ability to work collaboratively in teams

This course will teach students how to utilize the scientific method while exploring the principles of life. Working collaboratively in the laboratory, students pose scientific questions, perform experiments, analyze data, and form conclusions. Students study how scientific discoveries and theories affect human activities.

Catherine Tripp

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x6783

CATALOG DESCRIPTION

An introduction to the principles of biology with an emphasis on humans. Topics covered include scientific method, cell structure and function, biochemistry, metabolism, heredity, biotechnology, evolution, anatomy and physiology of the human body, development of aging, disease, and ecology.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
AREA B2, B3*

IGETC
AREA 5B, 5C*

OTHER
NONE

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/analytical reasoning
- Ability to work collaboratively in teams

Evaluate the validity of “research”, “data”, and “facts”. Develop skills to analyze data from multiple sources. Gain general knowledge about the, normal and diseased, structures and functions of the human body. Examine the environmental impact of humans. Study the basic principles genetics (and therefore understand heredity, DNA analysis, and genetic testing)

Holly Nash-Rule

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CATALOG DESCRIPTION

Introduction to the natural history of plant and animals living in temperate and tropical marine habitats, including rocky shore, mudflat, sandy beach, salt marsh, coral reef, mangal forest, open ocean, deep ocean, and bay/estuary. Polar and subpolar marine ecosystems will also be introduced.

This course is offered online.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
Area B2, B3*

IGETC
Area 5B, 5C*

OTHER

*There is an
associated lab

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/analytical reasoning
- Ability to work collaboratively in teams

Students will learn how to utilize the scientific method to investigate the general physical nature, biological characteristics of marine ecosystems. Students will identify the dominant organisms of major marine communities and describe their general characteristics. Working independently and collaborative, students will assess the impact of human activities on the marine environment.

Catherine Tripp

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x6783

CATALOG DESCRIPTION

Introduction to the natural history of common organisms of the freshwater environment along with basic ecological principles, which includes: energy flow, nutrient cycling, population dynamics, and community structure.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
Area B2, B3*

IGETC
Area 5B, 5C*

OTHER
NONE

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/analytical reasoning
- Ability to work collaboratively in teams

Students will learn how to utilize the scientific method to study the general physical nature, biological characteristics and composition of freshwater ecosystems. Students will learn to identify the dominant freshwater organisms and describe their general characteristics. Working independently and collaboratively, students will assess the impact of human activities on the freshwater environment.

Catherine Tripp

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x6783

CATALOG DESCRIPTION

Intended to prepare students for General Chemistry with an emphasis on problem solving using unit analysis. Included are topics on measurement, classification of matter, nomenclature, gas laws, chemical reactions, atomic and molecular structure, stoichiometry, aqueous solutions and fundamentals of acids and bases.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
Area B1

IGETC
Area 5A

OTHER
NONE

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/analytical reasoning
- Critical thinking/problem solving

This course introduces students to chemistry and understanding the behavior and changes of our environment by studying it the atomic and molecular level. Students will strengthen their problem-solving skills and get a different perspective on how scientific theories dictate human behavior. The course is lecture-based only thus allowing the student to focus on the fundamental concepts of chemistry.

Gagandeep Dhaliwal

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CATALOG DESCRIPTION

Designed to meet the requirements for allied-health majors and general education. Principles of general, inorganic chemistry with a strong emphasis on problem solving using dimensional analysis. Included are topics on measurement, classification of matter, nomenclature, gas laws, chemical reactions, atomic and molecular structure, stoichiometry, aqueous solutions and fundamentals of acids and bases.

This course is offered online.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
Area B1, B3*

IGETC
Area 5A, 5C*

OTHER

*There is an
associated lab

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/problem solving
- Professionalism/organization, work independently, prioritize & manage time

The course presents students with the important concepts of chemistry by understanding the behavior of our surroundings by studying them at the atomic and molecular level. This course will strengthen students problem-solving skills in lecture and allow them to apply them in a laboratory setting where experiments will be done.

Gagandeep Dhaliwal

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CATALOG DESCRIPTION

Chemical perspective of environmental topics including acid rain and global warming. Basic chemical principles are developed in order to understand such items as conventional, nuclear, and alternative energy sources, air and water pollution, fertilizers, pesticides, food preservatives, genetic engineering, and medicines and drugs.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
Area B1

IGETC
Area 5A

OTHER
NONE

WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/analytical reasoning
- Critical thinking/problem solving

This course presents an understanding of our environment through the lens of chemistry. Real world situations are presented and analyzed at the atomic and molecular level therefore explaining the behavior of these situations. This lecture-based course will allow students to critically think about issues that are currently affecting our society from a science perspective.

Gagandeep Dhaliwal

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CSCI 204

DISCRETE STRUCTURES FOR COMPUTER SCIENCE

CATALOG DESCRIPTION

Introduction to computational topics essential for work in Computer Science. Topics include: number bases, induction, sets, relations, functions, congruence, recursion, combinations and permutations, probability, graphs, trees, logic, Boolean algebra, and proof techniques. Computing related problems and examples are integrated throughout the course.

This course is offered online.

CSU
GE

GE

MJC-GE
Area D2

CSU-GE
Area B4

IGETC
Area 2A

OTHER
C-ID COMP 152

PATTERNS
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WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/analytical reasoning
- Critical thinking/problem solving

Modern computer science is built almost entirely on discrete structures. In this course, students learn the foundational structures and concepts needed to address non-trivial issues in counting, graph theory, reasoning, and problem solving through an understanding of sets, functions, relations, induction, recursion, and proof techniques to show that solutions work as outlined.

John Zamora zamoraj@mjc.edu

x6685

CONTACT

CATALOG DESCRIPTION

The template for each School has been updated with the recommended Math course(s), and co-requisites.



**CSU
GE**

GE

MJC-GE
Area D2

CSU-GE
Area B4

IGETC
Area 2A

OTHER

Most Math
Courses have C-ID
approval

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/problem solving

Quantitative reasoning is a universal requirement for transfer and non-transfer associates degrees. As such MJC does not include them as a GELO, but these courses will teach students the critical thinking and problem solving skills to work with data, numbers and statistics.

Ross McKenzie

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x6190

CATALOG DESCRIPTION

Includes the study of microorganisms, microbial metabolism, genetics, and varieties; immunity, infections, and antimicrobials.

**CSU
GE**

GE

**MJC-GE
Area A**

**CSU-GE
Area B2**

**IGETC
AREA 5B**

**OTHER
NONE**

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Effective written communication
- Critical thinking/problem solving

The course description includes, "Intended mainly for student entering the health professions." Although this course is listed as a GE, this course is NOT recommended for non-allied health majors! This course is clinical approach to microbes, focusing on clinical applications for students pursuing a degree in healthcare. This is a very rigorous course designed with allied health students in mind.

Holly Nash-Rule

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CATALOG DESCRIPTION

A survey course of selected topics in physics and chemistry to include the scientific method and measurement; kinematics and dynamics of linear motion; work and energy; structure, classification and properties of matter; chemical change; thermal energy; wave theory; light and optics; electricity and magnetism. Physical theory is explained on a conceptual level with emphasis placed on applying physical principles to everyday phenomena. To include a weekly laboratory/activity session designed to provide students with practical experience in applying physical concepts. Designed for elementary education majors, but open to all students.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
Area B1, B3*

IGETC
Area 5A, 5C*

OTHER

CC: CHEM 30 or
PHYCS 30,
C-ID: CHEM 140
PHYS 140

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/problem solving
- Ability to work with data, numbers and statistics

This course applies the scientific method in order to explain, analyze and solve problems related to physical phenomena.

Students will explore physical concepts in a collaborative laboratory setting. This course is designed for elementary education majors, but is valuable for all students wanting to pursue a scientific or educational degree.

Daniel Chase

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x6974

PHYS 180

CONCEPTUAL PHYSICS: A HANDS-ON APPROACH

CATALOG DESCRIPTION

A survey course of selected topics in physical inquiry to include motion, waves, heat, energy, electricity, magnetism and modern physics. Physical theory is explored on a conceptual level with emphasis placed on applying physical principles to everyday phenomena. To include a weekly activity/laboratory session designed to provide students with practical experience in applying physical concepts.

This course is offered online.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
Area B1, B3*

IGETC
Area 5A, 5C*

OTHER
NONE

PATTERNS
»»»

WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/problem solving
- Ability to work with data, numbers and statistics

This course applies the scientific method in order to explain, analyze and solve problems related to physical phenomena.

Students will explore physical concepts in a collaborative laboratory setting. Students will demonstrate the proper use of laboratory instruments in making measurements. This course is useful for students who need a conceptual understanding a basic physical principles.

Daniel Chase

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x6974

CONTACT

CATALOG DESCRIPTION

Study of physiological principles, function, and homeostasis of the human body in health and disease; at the biochemical, cellular, tissue, organ, and system levels: integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive. Includes cellular communication, sensory reception, and neural and hormonal control: body movement, oxygen and nutrient delivery, immunity, fluid and electrolyte balance, metabolism and reproductive function.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
AREA B2

IGETC
NONE

OTHER
NONE

PATTERNS
»»»

WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/analytical reasoning
- Can apply knowledge/skills in appropriate settings

This course is intended primarily for Nursing, Allied Health, Kinesiology, and other health related majors. Although this course is listed as a GE, it is NOT recommended for non-healthcare majors! This course is a rigorous, in-depth study of human physiology, from the molecular level to the organism level, focusing on clinical applications for students pursuing a degree in healthcare.

Holly Nash-Rule

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CATALOG DESCRIPTION

This course introduces the scientific study of the biological bases of behavior and its fundamental role in the neurosciences. Physiological, hormonal, and neurochemical mechanisms, and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, learning, memory, and psychological disorders will be addressed. The course also notes historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes. Ethical standards for human and animal research are discussed in the context of both invasive and non-invasive experimental research.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
Area B2

IGETC
Area 5B

OTHER

C-ID: PSY 150

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/problem solving
- Can evaluate, analyze, and synthesize information from many sources

This course introduces students to the interdisciplinary field of neuroscience: the study of the brain and nervous system. Students will learn about a wide range of research topics and methods aimed at understanding basic nervous system function and causes of brain and nervous system diseases. Students will evaluate methods from multiple disciplines to understand complex brain-behavior problems.

Shelly Fichtenkort fichtenkorts@mjc.edu x6898

CATALOG DESCRIPTION

Survey of major animal and protozoan phyla with emphasis on evolutionary relationships, structural and physiological adaptations and ecological importance

**CSU
GE**

GE

**MJC-GE
Area A**

**CSU-GE
Area B2, B3***

**IGETC
Area 5B, 5C***

**OTHER
NONE**

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/analytical reasoning
- Ability to work collaboratively in teams

This course teaches students how to utilize the scientific method to understand the principles of animal life and the current method of classification. Working collaboratively in the laboratory, students will learn to pose scientific questions, perform experiments, collect data, and form conclusions. Students will learn how scientific discoveries and theories affect human activities.

Catherine Tripp

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x6783

CATALOG DESCRIPTION

Spatial study of the Earth's dynamic physical systems and processes. Examination of Earth-sun relationships including weather, climate, vegetation, soils, landforms, and tectonics. Emphasis upon interrelationships between humans and the environment, resulting patterns and distributions.

This course is offered online.

CSU
GE

GE

MJC-GE
Area A

CSU-GE
Area B1

IGETC
Area 5A

OTHER
CID GEOG 110

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/analytical reasoning
- Can apply knowledge/skills in appropriate settings

This course centers upon earth processes and their global locations. Students learn about solar radiation patterns, weather processes, wind, plate tectonics, soils, vegetation, and landforms created by glaciation, rivers, wind, and tides.

Students evaluate how humans adapt or modify the earth. Students will suggest sustainable use of the environment.

Cece Hudelson hudelsonc@yosemite.edu x6104

CATALOG DESCRIPTION

An introductory study of the several branches of earth science: geology, oceanography, meteorology, and astronomy. Topics include the scientific method, natural resources, minerals, rocks, volcanism, plate tectonics, earthquakes, weathering, erosion, geological time, fresh water, ocean water, ocean currents, the ocean floor, atmosphere, clouds, storms, climate, the sun, the moon, the solar system, stars, interstellar matter, and the formation of the universe.

**CSU
GE**

GE

**MJC-GE
Area A**

**CSU-GE
Area B1, B3***

**IGETC
Area 5A, 5C***

OTHER

C-ID: GEOL 121,
CSET 102(?)

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Effective written communication
- Ability to work collaboratively in teams

Students work together in collaborative teams to design and carry out scientific experiments that answer questions and solve problems. Students write executive summaries that effectively describe recent scientific events, research, or discoveries and their relevance to humanity.

Noah Hughes

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x6800

CATALOG DESCRIPTION

An introductory study of oceanography, the study of the world's oceans. Topics include the ocean's role in the earth system, marine geography, ocean basins and plate tectonics, ocean water, ocean chemistry, marine sediments, ocean-atmosphere interaction, ocean currents, ocean waves and tides, coastal processes, marine ecosystems, ocean life, ocean and climate, oceanographic techniques, and ocean stewardship. Lab activities emphasize gathering and analysis of oceanographic data to understand and predict oceanographic phenomena.

**CSU
GE**

GE

**MJC-GE
Area A**

**CSU-GE
Area B1, B3***

**IGETC
Area 5A, 5C***

**OTHER
NONE**

PATTERNS
»»»

WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Effective written communication
- Ability to work collaboratively in teams

Students work together in collaborative teams to design and carry out scientific experiments that answer questions and solve problems. Students write executive summaries that effectively describe recent scientific events, research, or discoveries and their relevance to humanity.

Noah Hughes hughesn@yosemite.edu x6800

CATALOG DESCRIPTION

Introduction to atmospheric structure, weather monitoring techniques, solar radiation, thermodynamics, air pressure, humidity, cloud formation, wind patterns, planetary circulation patterns, storms and severe weather (including thunderstorms, tornadoes, and hurricanes), and the causes and consequences of climate and climate change. Lab activities emphasize gathering and analysis of meteorological data (both archived and real-time) to understand and predict weather events. Field trips might be required. Not repeatable

**CSU
GE**

GE

**MJC-GE
Area A**

**CSU-GE
Area B1, B3***

**IGETC
Area 5A, 5C***

**OTHER
NONE**

PATTERNS

WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Effective written communication
- Ability to work collaboratively in teams

Students work together in collaborative teams to design and carry out scientific experiments that answer questions and solve problems. Students write executive summaries that effectively describe recent scientific events, research, or discoveries and their relevance to humanity.

Noah Hughes

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x6800

CATALOG DESCRIPTION

Study of the physical and chemical processes that shape the earth, including plate tectonics, volcanism, weathering, and erosion; the composition of the earth; and geologic hazards such as mass wasting, flooding and earthquakes. Laboratory topics include rock and mineral identification, and the use of maps and aerial photographs to understand erosional and tectonic processes.

**CSU
GE**

GE

MJC-GE
Area A

CSU-GE
Area B1, B3*

IGETC
Area 5A, 5C*

OTHER
C-ID GEOL 101

PATTERNS

WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/problem solving
- Can apply knowledge/skills in appropriate settings

Students work together in collaborative teams to collect and analyze geological information and apply it specific issues that affect society, such as natural hazards and natural resources.

Garry Hayes

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x6294

CATALOG DESCRIPTION

Study of the physical and chemical processes that shape the earth, including plate tectonics, volcanism, weathering, and erosion; the composition of the earth; and geologic hazards such as mass wasting, flooding and earthquakes. Laboratory topics include rock and mineral identification, and the use of maps and aerial photographs to understand erosional and tectonic processes.

**CSU
GE**

GE

**MJC-GE
Area A**

**CSU-GE
Area B1**

**IGETC
Area 5A**

**OTHER
C-ID GEOL 200**

PATTERNS
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WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/problem solving
- Can apply knowledge/skills in appropriate settings

Students work to collect and analyze geological information and apply it to the geological history, natural hazards, and natural resources of California.

Garry Hayes

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x6294

CATALOG DESCRIPTION

Introduction to the origin, development, and evolution of the earth and its inhabitants. Topics include the study of fossils and rocks, continents and ocean basins, geologic time, plate tectonics, climate change and mass extinctions. Laboratory utilizes rocks, fossils and stratigraphic principles to decipher ancient environments.

**CSU
GE**

GE

**MJC-GE
Area A**

**CSU-GE
Area B1, B3***

**IGETC
Area 5A, 5C***

**OTHER
C-ID GEOL 111**

PATTERNS

WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Critical thinking/problem solving
- Can apply knowledge/skills in appropriate settings

Students work together in collaborative teams to collect and analyze geological information and apply it to decipher ancient environments on Earth.

Garry Hayes

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x6294

CATALOG DESCRIPTION

A scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology. Emphasis on the origin, characteristics, adaptations and contributions of livestock to the modern agriculture industry

CSU
GE

GE

MJC-GE
Area A

CSU-GE
Area B2

IGETC
Area 5B

OTHER
CSET AG

PATTERNS



WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Effective oral communication
- Can apply knowledge/skills in appropriate settings

This class will correlate the contributions of livestock and their impact on modern sciences and their interactions with humans. It will explore genetics, nutrition and adaptations of the Ag industry.

Bill Hobby

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x6053

CATALOG DESCRIPTION

Study of soil derivation, classification and characteristics as related to natural and human systems. Soil as a natural system including chemistry, ecology and geology. Soil use and management including erosion, moisture retention, structure, cultivation and organic matter. Special emphasis placed on the relationship between natural and agronomic soil systems.

**CSU
GE****GE****MJC-GE**
Area A**CSU-GE**
Area B1, B3***IGETC**
Area 5A, 5C***OTHER**
CSET Test for Ag**PATTERNS****WHAT SKILLS AND COMPETENCIES
WILL NON-MAJORS LEARN?**

- Can research, find, and organize information from many sources
- Can evaluate, analyze, and synthesize information from many sources

This class will help a student understand the uses of a variety of soils, their composition and how nutrients effect the essential growth and maintenance of life. Will use scientific approaches to enhance knowledge.

Dale Pollard

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x6204

CATALOG DESCRIPTION

Introduction to plant science including structure, growth processes, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber, and ornamental plants.

**CSU
GE**

GE

**MJC-GE
Area A**

**CSU-GE
Area B2**

**IGETC
Area 5B**

OTHER
CSET test for Ag

PATTERNS

WHAT SKILLS AND COMPETENCIES WILL NON-MAJORS LEARN?

- Can apply knowledge/skills in appropriate settings
- Can evaluate, analyze, and synthesize information from many sources

This plant science class is a general overview of plants, their structure, growth patterns and allows the student to analyze ideal growing environment.

Dale Pollard

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x6204