### BIOLOGICAL SCIENCES

**BIOLOGY 120 BIOLOGICAL FOUNDATIONS** ... A terminal course designed to introduce basic principles of life, such as structure and function, reproduction, evolution, diversity, and adaptation, leading to a broader understanding of man and his biological environment. Not applicable to biology emphases or minors. Three lectures and two hours of laboratory per week.

**COREQ:** MATH 141 OR 140 OR WAIVER

<table>
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<tr>
<th>Section #</th>
<th>Section</th>
<th>Units</th>
<th>Meeting Days</th>
<th>Meeting Times</th>
<th>Location</th>
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<td>Course Topic (if applicable)</td>
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09/04-12/21     T  08:50 AM - 10:45 AM UH0364 Linda C Eshelman
09/04-12/21     MWF 11:00 AM - 11:50 AM UH0145 Brett C Woods

#5490  Section 21  [units: 4]  Gen Ed Laboratory (GL)
09/04-12/21     M  03:30 PM - 05:25 PM UH0356 Kathryn M Gerndt
09/04-12/21     MW  03:45 PM - 05:00 PM UH0145 Michael J Woller

#5491  Section 22  [units: 4]  Gen Ed Laboratory (GL)
09/04-12/21     W  01:10 PM - 03:05 PM UH0356 Kathryn M Gerndt
09/04-12/21     MW  03:45 PM - 05:00 PM UH0145 Michael J Woller

BIOLOGY 141 INTRODUCTORY BIOLOGY I  ... An introduction to biology emphasizing the chemistry of life, the cell, metabolism, genetics, bacteria and protists. Three hours of lecture and one hour of discussion and two hours of laboratory per week. This course is prerequisite to all advanced courses in biology for majors and minors. Offered every term.

COREQ: MATH 141 OR WAIVER

#1957  Section 01  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04-12/21 M 02:15 PM - 05:15 PM UH0312 Nadine L Kriska
09/04-12/21 MWF 09:55 AM - 10:45 AM UH0140 Brett C Woods

#1958  Section 02  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04-12/21 T 08:50 AM - 11:50 AM UH0312 Anneke Elis Lisberg
09/04-12/21 MWF 09:55 AM - 10:45 AM UH0140 Brett C Woods

#1960  Section 03  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04-12/21 T 02:15 PM - 05:15 PM UH0312 Linda C Eshelman
09/04-12/21 MW 02:15 PM - 03:30 PM UH0140 Robert K Kuzoff

#1961  Section 04  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04-12/21 W 08:50 AM - 11:50 AM UH0312 Nadine L Kriska
09/04-12/21 MW 02:15 PM - 03:30 PM UH0140 Robert K Kuzoff

#1980  Section 05X  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04-12/21 R 02:15 PM - 05:15 PM UH0312 Nicholas P Tippery DOUBLE HELIX
09/04-12/21 TR 09:30 AM - 10:45 AM UH0140 Nicholas P Tippery

#2004  Section 06  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04-12/21 F 08:50 AM - 11:50 AM UH0312 George V Clokey
09/04-12/21 TR 09:30 AM - 10:45 AM UH0140 Nicholas P Tippery

#2042  Section 07  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04-12/21 W 02:15 PM - 05:15 PM UH0312 Linda C Eshelman
09/04-12/21 TR 02:15 PM - 03:30 PM UH0140 Nadine L Kriska

#2043  Section 08  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04-12/21 R 08:50 AM - 11:50 AM UH0312 Linda C Eshelman
09/04-12/21 TR 02:15 PM - 03:30 PM UH0140 Nadine L Kriska

#5492  Section 09  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04-12/21 M 06:00 PM - 09:00 PM UH0312 Nadine L Kriska
09/04-12/21 MWF 09:55 AM - 10:45 AM UH0140 Brett C Woods

#5493  Section 10  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04-12/21 T 06:00 PM - 09:00 PM UH0312 To Be Arranged
09/04-12/21 MW 02:15 PM - 03:30 PM UH0140 Robert K Kuzoff

#5494  Section 11  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04-12/21 W 06:00 PM - 09:00 PM UH0312 To Be Arranged
09/04-12/21 TR 09:30 AM - 10:45 AM UH0140 Nicholas P Tippery
#5495  Section 12  [units: 5]  Gen Ed Laboratory (GL)
PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, OR INTEGRATED SCIENCE-BUSINESS MAJOR
09/04/12/21  R  06:00 PM - 09:00 PM  UH0312  To Be Arranged
09/04/12/21  TR  02:15 PM - 03:30 PM  UH0140  Nadine L Kriska

BIOLOGY 142 INTRODUCTORY BIOLOGY II ... An introduction to biology emphasizing evolution, animal physiology, ecology, fungal, plant and animal diversity. Dissections are required. Three hours of lecture, one hour of discussion and two hours of laboratory per week. This course is prerequisite to all advanced courses in biology for majors and minors. Offered every term.
PREREQ: BIOLOGY 141 WITH A GRADE OF C OR BETTER

#2003  Section 03  [units: 5]  Gen Ed Laboratory (GL)
09/04/12/21  T  02:15 PM - 05:15 PM  UH0306  Kerry R Katovich
09/04/12/21  MWF  01:10 PM - 02:00 PM  HH1303  Kerry R Katovich

#2046  Section 04L  [units: 5]  Gen Ed Laboratory (GL)
09/04/12/21  R  08:50 AM - 11:50 AM  UH0306  Kerry R Katovich
09/04/12/21  MWF  01:10 PM - 02:00 PM  HH1303  Kerry R Katovich

#2034  Section 05  [units: 5]  Gen Ed Laboratory (GL)
09/04/12/21  R  02:15 PM - 05:15 PM  UH0306  Joshua M Kapfer
09/04/12/21  TR  09:30 AM - 10:45 AM  UH0142  Joshua M Kapfer

#2047  Section 06  [units: 5]  Gen Ed Laboratory (GL)
09/04/12/21  F  08:50 AM - 11:50 AM  UH0306  Kerry R Katovich
09/04/12/21  TR  09:30 AM - 10:45 AM  UH0142  Joshua M Kapfer

CHEMISTRY

CHEM 100 CHEMISTRY FOR THE CONSUMER ... A critical examination of those chemical products which have a significant impact upon the daily life of the consumer. Attention will be focused from the consumer viewpoint upon food additives, prescription and non-prescription drugs, fuels, pesticides, detergents, synthetic fibers and plastics. Meets General Studies laboratory science requirements.
COREQ: MATH 141 OR 140 OR WAIVER

#3041  Section 01  [units: 4]  Gen Ed Laboratory (GL)  NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  M  09:00 AM - 10:40 AM  UH0244  Hassimi Traore
09/04/12/21  TR  02:15 PM - 03:30 PM  UH0145  Jessica L Menke

#3042  Section 02  [units: 4]  Gen Ed Laboratory (GL)  NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  R  09:00 AM - 10:40 AM  UH0244  Hephzibah J Kumparty
09/04/12/21  TR  02:15 PM - 03:30 PM  UH0145  Jessica L Menke

#3043  Section 03  [units: 4]  Gen Ed Laboratory (GL)  NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  W  11:15 AM - 12:55 PM  UH0244  Jessica L Menke
09/04/12/21  TR  02:15 PM - 03:30 PM  UH0145  Jessica L Menke

#3044  Section 04  [units: 4]  Gen Ed Laboratory (GL)  NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  M  12:05 PM - 01:45 PM  UH0244  Tulay Aygan Atesin
09/04/12/21  TR  02:15 PM - 03:30 PM  UH0145  Jessica L Menke

CHEM 102 INTRODUCTORY CHEMISTRY ... An introduction to the general concepts of chemistry including matter and energy, atomic and molecular structure, bonding, reactions and stoichiometry, gas laws, changes of state, thermochemistry, acid-base theory, solutions, colloids, kinetics, equilibria and electrochemistry.
PREREQ: MATH 141 WITH A GRADE OF C OR BETTER OR WAIVER.

#3046  Section 01  [units: 5]  Gen Ed Laboratory (GL)  NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  M  08:00 AM - 10:45 AM  UH0242  Kimberly K Naber
09/04/12/21  MTWR  12:05 PM - 12:55 PM  UH0140  Kimberly K Naber

#3048 Section 03  [units: 5]  Gen Ed Laboratory (GL)  NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  W  08:00 AM - 10:45 AM  UH0242  Tulay Aygan Atesin
09/04/12/21  MTWR  11:00 AM - 11:50 AM  H20100  Tulay Aygan Atesin
#3071 Section 04 [units: 5] Gen Ed Laboratory (GL) NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  R  08:00 AM - 10:45 AM  UH0242  Christopher T Velkamp
09/04/12/21  MTWR  11:00 AM - 11:50 AM  HE0100  Tulay Aygan Atesin

#3049 Section 05 [units: 5] Gen Ed Laboratory (GL) NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  F  11:00 AM - 01:45 PM  UH0242  Sarah Hosseini
09/04/12/21  MTWR  12:05 PM - 12:55 PM  UH0140  Kimberly K Naber

#3078 Section 06 [units: 5] Gen Ed Laboratory (GL) NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  M  02:15 PM - 05:00 PM  UH0242  Tulay Aygan Atesin
09/04/12/21  MTWR  11:00 AM - 11:50 AM  HE0100  Tulay Aygan Atesin

#3069 Section 07 [units: 5] Gen Ed Laboratory (GL) NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  T  02:15 PM - 05:00 PM  UH0242  John W Ejnik
09/04/12/21  MTWR  12:05 PM - 12:55 PM  UH0140  Kimberly K Naber

#3076 Section 08 [units: 5] Gen Ed Laboratory (GL) NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  W  02:15 PM - 05:00 PM  UH0242  Tulay Aygan Atesin
09/04/12/21  MTWR  11:00 AM - 11:50 AM  HE0100  Tulay Aygan Atesin

#3077 Section 09 [units: 5] Gen Ed Laboratory (GL) NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  R  02:15 PM - 05:00 PM  UH0242  Hephzibah J Kumpaty
09/04/12/21  MTWR  12:05 PM - 12:55 PM  UH0140  Kimberly K Naber

#5236 Section 10 [units: 5] Gen Ed Laboratory (GL) NOTE: For lab contract students only. Dept. Consent
09/04/12/21  Arranged  Arranged  Tulay Aygan Atesin
09/04/12/21  MTWR  11:00 AM - 11:50 AM  HE0100  Tulay Aygan Atesin

#5349 Section 11 [units: 5] Gen Ed Laboratory (GL) NOTE: For lab contract students only. Dept. Consent
09/04/12/21  Arranged  Arranged  Kimberly K Naber
09/04/12/21  MTWR  12:05 PM - 12:55 PM  UH0140  Kimberly K Naber

#5496 Section 12 [units: 5] Gen Ed Laboratory (GL) NOTE: For lab contract students only.
09/04/12/21  W  06:00 PM - 08:45 PM  UH0242  Hassimi Traore
09/04/12/21  MTWR  11:00 AM - 11:50 AM  HE0100  Tulay Aygan Atesin

CHEM 104 INTRODUCTORY CHEMISTRY ... A continuation of CHEM 102.
PREREQ: CHEM 102

#3051 Section 01 [units: 5] Gen Ed Laboratory (GL) NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  T  08:00 AM - 10:45 AM  UH0244  Baocheng Han
09/04/12/21  MTWR  12:05 PM - 12:55 PM  UH0145  Hassimi Traore

#3052 Section 02 [units: 5] Gen Ed Laboratory (GL) NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  W  08:00 AM - 10:45 AM  UH0244  Baocheng Han
09/04/12/21  MTWR  12:05 PM - 12:55 PM  UH0145  Hassimi Traore

#3053 Section 03 [units: 5] Gen Ed Laboratory (GL) NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  M  02:15 PM - 05:00 PM  UH0244  Baocheng Han
09/04/12/21  MTWR  12:05 PM - 12:55 PM  UH0145  Hassimi Traore

#3066 Section 04 [units: 5] Gen Ed Laboratory (GL) NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  T  02:15 PM - 05:00 PM  UH0244  Hassimi Traore
09/04/12/21  MTWR  12:05 PM - 12:55 PM  UH0145  Hassimi Traore

#3070 Section 05 [units: 5] Gen Ed Laboratory (GL) NOTE: Lab contracts are available for this class. Lab contracts MUST be completed by Friday of the first week of classes for the Chemistry department to honor them.
09/04/12/21  W  02:15 PM - 05:00 PM  UH0244  Hassimi Traore
09/04/12/21  MTWR  12:05 PM - 12:55 PM  UH0145  Hassimi Traore

#5501 Section 06 [units: 5] Gen Ed Laboratory (GL) NOTE: This section is restricted to students with Lab Contracts. Dept. Consent
09/04/12/21  Arranged  Arranged  Hassimi Traore  LAB CONTRACTS ONLY
09/04/12/21  MTWR  12:05 PM - 12:55 PM  UH0145  Hassimi Traore
## Geography

**GEOGRPY 210 PHYSICAL GEOGRAPHY** ... A study of selected physical aspects of our geographic environment. Emphasis is given to the origin and characteristic features of topographic, climatic, vegetative and soil regions of the earth and to their interrelationships. The ultimate objective is to provide a foundation upon which to build a better understanding of human interrelationships with the physical environment. Field trips are normally taken.

**COREQ: MATH 141 OR WAIVER**

### #1901 Section 01 [units: 5] Gen Ed Laboratory (GL)
- **NOTE:** Required additional course fee is $25.
- **Start/End Dates:** 09/04-12/21
- **Meeting Days:** MTWR
- **Meeting Times:** 09:00 AM - 10:45 AM
- **Location:** UH0145
- **Instructor:** Dale K Splinter

### #1922 Section 03 [units: 5] Gen Ed Laboratory (GL)
- **Start/End Dates:** 09/04-12/21
- **Meeting Days:** W
- **Meeting Times:** 09:00 AM - 10:45 AM
- **Location:** UH0145
- **Instructor:** Dale K Splinter

### #1925 Section 02 [units: 5] Gen Ed Laboratory (GL)
- **Start/End Dates:** 09/04-12/21
- **Meeting Days:** MTWR
- **Meeting Times:** 01:10 PM - 02:00 PM
- **Location:** UH0145
- **Instructor:** John D Frye

### #1934 Section 05 [units: 5] Gen Ed Laboratory (GL)
- **Start/End Dates:** 09/04-12/21
- **Meeting Days:** M
- **Meeting Times:** 02:15 PM - 03:55 PM
- **Location:** UH0145
- **Instructor:** ALISA L HASS

## Geology

**GEOLOGY 101 ELEMENTS OF GEOLOGY** ... An introduction to the study of the earth. Emphasis is placed on: (1) the materials which make up the earth, (2) the internal and external processes which affect the earth, (3) the length of geologic time, and (3) the methods of science, especially as they apply to the study of the Earth. One half-day field trip in the immediate area is required. An optional field trip, requiring a transportation fee, will be conducted to the Baraboo Hills region. Three hours of lecture and two hours of laboratory per week.

**COREQ: MATH 141 OR 140 OR WAIVER**

### #2378 Section 01 [units: 4] Gen Ed Laboratory (GL)
- **NOTE:** This class will be using Clickers.
- **Start/End Dates:** 09/04-12/21
- **Meeting Days:** T
- **Meeting Times:** 12:30 PM - 02:00 PM
- **Location:** UH0060
- **Instructor:** Jean Kowal

### #3038 Section 02 [units: 4] Gen Ed Laboratory (GL)
- **NOTE:** This class will be using Clickers.
- **Start/End Dates:** 09/04-12/21
- **Meeting Days:** R
- **Meeting Times:** 12:30 PM - 02:00 PM
- **Location:** UH0060
- **Instructor:** Jean Kowal

### #3039 Section 03 [units: 4] Gen Ed Laboratory (GL)
- **NOTE:** This class will be using Clickers.
- **Start/End Dates:** 09/04-12/21
- **Meeting Days:** W
- **Meeting Times:** 08:50 AM - 10:20 AM
- **Location:** UH0060
- **Instructor:** Jean Kowal

## Astronomy

**ASTRONMY 112 INTRODUCTION TO ASTRONOMY** ... An examination of concepts regarding the organization of the universe. The solar system, astronomical principles and instruments, stellar evolution and galaxies are among topics covered. Activities include field trips, observations of the night sky and of the sun with telescopes, and laboratory work. Four one-hour lectures and one two-hour laboratory/observation period per week. There are two required evening observation sessions during the semester.

**COREQ: MATH 141 OR WAIVER**

### #1852 Section 01 [units: 5] Gen Ed Laboratory (GL)
- **Start/End Dates:** 09/04-12/21
- **Meeting Days:** M
- **Meeting Times:** 12:05 PM - 01:55 PM
- **Location:** UH0050
- **Instructor:** RYAN L DOERING

### #1853 Section 01 [units: 5] Gen Ed Laboratory (GL)
- **Start/End Dates:** 09/04-12/21
- **Meeting Days:** MTWR
- **Meeting Times:** 02:15 PM - 03:05 PM
- **Location:** UH0141
- **Instructor:** Paul M Rybski
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**Physics**

**PHYSICS 130 PHYSICS FOUNDATIONS**

This course will explore topics in classical physics (motion, heat, sound, electricity, magnetism, and light) and modern physics (atomic structure, quantum mechanics, and relativity) with an emphasis on how the principles explain and predict phenomena we observe every day. Four one-hour lectures and one two-hour laboratory per week.

**COREQ: MATH 141 OR CONSENT OF INSTRUCTOR**

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**PHYSICS 140 PRINCIPLES OF PHYSICS I**

An algebra-based course in classical mechanics at the introductory level. The content covers kinematics, Newton's laws, conservation laws, oscillations and waves, applications to fluids and elasticity, and thermodynamics and kinetic theory. Applications to the life and health sciences are emphasized, and essential MCAT subject matter is included. Basic understanding of trigonometry and the manipulation of vectors is necessary. Students with adequate mathematical preparation may wish to consider taking the PHYSICS 180 series. Four one-hour lectures and one three-hour laboratory per week.

**COREQ: MATH 152**

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**PHYSICS 141 PRINCIPLES OF PHYSICS II**

An algebra-based course in electricity and magnetism, circuits, electromagnetic waves, optics and an introduction to modern physics. Applications to the life and health sciences are emphasized, and essential MCAT subject matter is included. Basic understanding of trigonometry and the manipulation of vectors is necessary. Students with adequate mathematical preparation may wish to consider taking the PHYSICS 180 series. Four one-hour lectures and one three-hour laboratory per week.

**PREREQ: PHYSICS 140**

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**PHYSICS 180 PHYSICS FOR SCIENTISTS AND ENGINEERS I**

A lecture course in introductory physics including a mathematically rigorous analysis of mechanics, vibrations, wave motion, and thermodynamics using calculus. For majors and minors in physics, engineering, chemistry, mathematics. Four one-hour lectures and one three-hour lab per week. High school calculus recommended.

**COREQ: MATH 253**

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PHYSICS 212 PHYSICS FOR ELEMENTARY TEACHERS ... This course is a one-semester introduction to physics with curriculum and instruction designed as an activity-based hands-on course for K-8 elementary education students and open to all education majors. The course emphasizes a student-oriented pedagogy in order to develop various physics concepts and the nature of science. Topics covered include motion, forces, energy, light, heat, electricity, and magnetism.

PREREQ: MATH 141 AND RESTRICTED TO STUDENTS WITH BSE PROGRAM

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