Section V - College of Letters and Sciences

BIOLOGICAL SCIENCES

BIOLOGY 214 ECOLOGY AND SOCIETY ... A study of basic ecological concepts and their application to the identification, understanding, and abatement of contemporary environmental problems. Special emphasis is given to those problems resulting from man and his activities. This course is accepted as a course in conservation required for teacher licensure in the sciences.

#1965  Section 01  [units: 3]  Gen Ed Math/Natural Sciences (GM)  NOTE: Restricted to BSE majors only.
RESTRICTED TO STUDENTS WITH BSE CURRICULUM
09/04-12/21  TR  09:30 AM - 10:45 AM  UH0238  Stephen L Solheim

#2014  Section 02  [units: 3]  Gen Ed Math/Natural Sciences (GM)
09/04-12/21  TR  09:30 AM - 10:45 AM  UH0238  Stephen L Solheim

#2029  Section 03  [units: 3]  Gen Ed Math/Natural Sciences (GM)  NOTE: Restricted to BSE majors only.
RESTRICTED TO STUDENTS WITH BSE CURRICULUM
09/04-12/21  TR  03:45 PM - 05:00 PM  UH0142  George V Clokey

GEOGRAPHY AND GEOLOGY

Geology

GEOLOGY 203 VOLCANOES ... The course examines the processes that lead to different types of volcanic activities, role of volcanism on development of continents, oceans, and atmosphere, and its various impacts on the biosphere on planet earth. Volcanism on other planets and satellites within the solar system will also be explored. Special emphasis will be place on volcanoes as major economic resources and potential alternate energy sources.

PREREQ: GEOLOGY 100 OR GEOLOGY 101
#2381  Section 01  [units: 3]  Gen Ed Math/Natural Sciences (GM)
09/04-12/21  TR  11:00 AM - 12:15 PM  UH0060  Juk Bhattacharyya

GEOLOGY 204 EARTH AND LIFE HISTORY ... A study of the changes in the Earth’s crust and life through geologic time and the methodology used in reconstructing Earth history, including plate tectonics, organic evolution and stratigraphy. A special fee will be assessed to cover transportation costs for those students selecting to participate on an optional field trip.

COREQ: MATH 141 OR 140 OR WAIVER
#1876  Section 01  [units: 3]  Gen Ed Math/Natural Sciences (GM)
09/04-12/21  MWF  01:10 PM - 02:00 PM  UH0140  Rex A Hanger

GEOLOGY 301 ENVIRONMENTAL GEOLOGY ... A study of geological phenomena such as earthquakes, volcanism, mass movements, river processes, coastal processes etc. and their impacts on society and environmnet. Special emphasis will be placed on examining remedial measures against geological hazards and how human actions influence natural geological processes. Three lecture hours per week.

#2379  Section 01  [units: 3]  Gen Ed Math/Natural Sciences (GM)
09/04-12/21  TR  09:30 AM - 10:45 AM  UH0060  Juk Bhattacharyya

INTERDEPARTMENTAL

Environmental Science

ENVSCI 200 INTRODUCTION TO ENVIRONMENTAL SCIENCE ... The introductory course for the environmental sciences major introduces students to the complexity of topics included in environmental sciences and is the important first step in the major. A one hour discussion section allows students and instructors to explore current topics and issues that fall within environmental science.

#5224  Section 01  [units: 4]  Gen Ed Math/Natural Sciences (GM)
09/04-12/21  MTWF  11:00 AM - 11:50 AM  UH0144  Bruce David Eshelman

MATHEMATICAL AND COMPUTER SCIENCES

Computer Science

COMPSCI 162 COMPUTER APPLICATIONS ... A thorough introduction to using computers covering word processing, spreadsheets, data storage and retrieval, computer graphics and applications, uses of computers, e-mail and the Internet, hardware, history, and problems arising from the use of computers.

COREQ: MATH 141 OR 140 OR WAIVER
#4817  Section 01  [units: 3]  Gen Ed Math/Natural Sciences (GM)  NOTE: This is a hybrid class which meets F on-line and MW in the classroom each week.
09/04-12/21  MWF  09:55 AM - 10:45 AM  MG0115  Cheng Thao

#4818  Section 02  [units: 3]  Gen Ed Math/Natural Sciences (GM)  NOTE: This is a hybrid class which meets F on-line and MW in the classroom each week.
09/04-12/21  MWF  11:00 AM - 11:50 AM  MG0115  Cheng Thao

#4831  Section 03  [units: 3]  Gen Ed Math/Natural Sciences (GM)
09/04-12/21  T  06:15 PM - 08:45 PM  MG0115  Robert L Horton
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<th>Meeting Times</th>
<th>Location</th>
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<th>Course Topic (if applicable)</th>
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#4835 Section 05 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: This is a web-based class. Required additional course fee is $150.00. This class uses Office 2010; students will need to have access to this software to successfully complete this class.

09/04-12/21 Arranged Arranged WEB BASED Sobitha W Samaranayake

#4836 Section 06 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: This is a web-based class. Required additional course fee is $150.00. This class uses Office 2010; students will need to have access to this software to successfully complete this class.

09/04-12/21 Arranged Arranged WEB BASED Leon M Arriola

#4837 Section 07 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: This is a web-based class. Required additional course fee is $150.00. This class uses Office 2010; students will need to have access to this software to successfully complete this class.

09/04-12/21 Arranged Arranged WEB BASED Lopamudra Mukherjee

#4838 Section 08 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: This is a web-based class. Required additional course fee is $150.00. This class uses Office 2010; students will need to have access to this software to successfully complete this class.

09/04-12/21 Arranged Arranged WEB BASED Hien M Nguyen

COMPSCI 171 INTRODUCTION TO PROGRAMMING ... An introduction to computer programming and its applications to science, business and education. Opportunity for extensive experience in designing and writing structured programs in the Visual Basic language.

PREREQ: MATH 141 OR WAIVER OF MATH 141

#4819 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 MWF 07:45 AM - 08:35 AM MG0115 Jiehui Ma

#4820 Section 02 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 MWF 08:50 AM - 09:40 AM MG0115 Jiehui Ma

#4841 Section 03 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 TR 09:30 AM - 10:45 AM MG0115 Jiehui Ma

#4842 Section 04 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 MWF 12:05 PM - 12:55 PM MG0115 Lopamudra Mukherjee

COMPSCI 172 INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING IN JAVA ... This course will give students the essentials of object-oriented programming in Java. Students will learn to formulate algorithms, to solve problems and to implement those solutions with a Java program that employs objects and classes. The student will be introduced to object-oriented design, applications and applets, class construction, methods and message passing arrays, string processing, file processing, and some event-handling and Graphical User Interface programming. This course is designed for students with some prior programming experience.

PREREQ: COMPSCI 171 AND EITHER MATH 152 OR MATH 143 OR CALCULUS PLACEMENT, OR CONSENT OF INSTRUCTOR

#4822 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 TR 02:15 PM - 03:30 PM MG0115 Jiazhen Zhou

COMPSCI 174 INTRODUCTION TO C++ ... This course teaches basic programming skills using the structured high-level language C++. Topics include basic input and output, declaration and use of variables, use of control statements, implementation of functions using value and reference parameters, arrays, and structures. Students will write moderately complex applications using C++.

PREREQ: COMPSCI 171 AND EITHER MATH 152 OR MATH 143 OR CALCULUS PLACEMENT, OR CONSENT OF INSTRUCTOR

#4840 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 TR 08:00 AM - 09:15 AM MG0115 Athula D. A. Gunawardena

COMPSCI 181 INTRODUCTION TO DATABASE AND THE WEB ... This course provides the student with a comprehensive working knowledge of a modern database package including the creation of a database, construction of a wide range of queries, use of forms, and report writing features. The course also gives an introduction to the creation of World Wide Web pages using the Extended Hypertext Markup Language (XHTML).

PREREQ: MATH 141 OR WAIVER OF MATH 141

#4829 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 MWF 01:10 PM - 02:00 PM MG0115 Jiazhen Zhou

#4830 Section 02 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 MW 02:15 PM - 03:30 PM MG0115 Jiazhen Zhou

Mathematics

MATH 143 FINITE MATHEMATICS FOR BUSINESS AND SOCIAL SCIENCES ... Mathematical preparation for the understanding of various quantitative methods in modern management and social sciences. Topics include sets, relations, linear functions, interest, annuities, matrix theory, the solution of linear systems by the graphical, algebraic, Gauss-Jordan, and inverse methods, linear programming by graphical and simplex methods, counting and probability, and decision theory. College of Business and Economics majors must take this course on a conventional grade basis.

PREREQ: MATH 141 WITH A GRADE OF C OR BETTER OR WAIVER.

#4527 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 MWF 08:50 AM - 09:40 AM MG0117 Inessa Maryline Sedegho

#4530 Section 02 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 TR 09:30 AM - 10:45 AM MG0117 Mohammad H Ahmadi

#4533 Section 03 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 TR 09:30 AM - 10:45 AM WH1001 Leon M Arriola

#4535 Section 04 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/04-12/21 MWF 09:55 AM - 10:45 AM MG0117 Sobitha W Samaranayake
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**MATH 148 MATHEMATICS FOR THE ELEMENTARY TEACHER I** ... A study of sets, whole numbers, fractions, integers, decimals and real numbers, basic arithmetic operations and their properties, standard and alternative algorithms and estimations strategies; problem-solving, proportional reasoning and algebraic thinking. Manipulatives and cooperative learning activities are used throughout the course. For elementary education majors.

**PREREQ:** A GRADE OF C OR BETTER IN MATH 141 OR MATH 141B OR A WAIVER FROM THE UNIVERSITY MATHEMATICS PROFICIENCY REQUIREMENT

**MATH 152 ELEMENTARY FUNCTIONS** ... Review of algebraic functions, inequalities, mathematical induction, theory of equations, exponential and logarithmic functions, circular functions, trigonometric identities and equations, inverse trigonometric functions, solution of triangles.

**PREREQ:** MATH 141 WITH A GRADE OF C OR BETTER OR WAIVER.
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**MATH 230** INTRODUCTORY STATISTICS ... A pre-calculus course in statistics. Descriptive statistics, probability distributions, prediction, hypothesis testing, correlation, and regression. This course does not count towards a mathematics major or minor in either liberal arts or secondary education or towards a mathematics minor in elementary education. This course may not be taken for credit if credit has been or is being earned in any other statistics course.

**PREREQ:** MATH 141 WITH A GRADE OF C OR BETTER OR WAIVER.

**MATH 243 SHORT CALCULUS FOR BUSINESS AND SOCIAL SCIENCES** ... A general survey of the calculus. Topics covered include limits, differentiation, max-min theory, exponential and logarithmic functions, and integration. Business and social science applications are stressed.

**PREREQ:** MATH 143 OR 152 WITH A GRADE OF C OR BETTER

**MATH 250** APPLIED CALCULUS SURVEY FOR BUSINESS AND SOCIAL SCIENCES ... An applied calculus course covering elementary analytic geometry, limits, differentiation, max-min theory, exponential and logarithmic functions, integration, functions of several variables, and elementary differential equations. Some computer topics may be included.

**PREREQ:** MATH 143 WITH A C OR BETTER OR EQUIVALENT PREPARATION AS DETERMINED BY THE MATH DEPARTMENT

**MATH 252 CALCULUS AND ANALYTIC GEOMETRY I** ... Review of algebraic and trigonometric functions, transcendental functions, limits, study of the derivative, techniques of differentiation, continuity, applications of the derivative, L’Hôpital’s Rule and indeterminate forms, the Riemann integral, Fundamental Theorem of Calculus, and substitution rule.

**PREREQ:** MATH 152 WITH A GRADE OF C OR BETTER OR EQUIVALENT HIGH SCHOOL PREPARATION AS DETERMINED BY THE MATHEMATICS DEPARTMENT. **UNREQ:** MATH 253 AND MATH 250