## 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.

#1114  Section 01   [units: 3]   Gen Ed Math/Natural Sciences (GM)
05/27-06/13  MTWRF  07:45 AM - 10:25 AM  UH0142  Stephen L Solheim

## CHEMISTRY

### CHEM 150 SCIENCE AND TECHNOLOGY IN SOCIETY

This course examines basic scientific concepts, technological advances, and their impact upon society. Science processes will be examined to illustrate how knowledge is acquired. Advantages and limitations of the scientific method will be considered. The effect of science and technology on society will be a continuing theme.

COREQ: MATH 141 OR MATH 140 OR WAIVER

#1395  Section 01   [units: 3]   Gen Ed Math/Natural Sciences (GM)  NOTE: This class is taught online through Desire2Learn. The course site will be available to you at the beginning of the session. An additional $150 fee will be assessed for this course.
07/07-07/25  Arranged  Arranged  WEB BASED  Jessica L Bonjour

## 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 MATH 140 OR WAIVER

#1127  Section 01   [units: 3]   Gen Ed Math/Natural Sciences (GM)  NOTE: This is a web-based class. Required additional course fee is $150.
06/16-07/03  Arranged  Arranged  WEB BASED  Sobitha W Samaranayake

#1003  Section 02   [units: 3]   Gen Ed Math/Natural Sciences (GM)  NOTE: This is a web-based class. Required additional course fee is $150.
07/28-08/15  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

#1004  Section 01   [units: 3]   Gen Ed Math/Natural Sciences (GM)  NOTE: This is a web-based class. Required additional course fee is $150.
05/27-06/13  Arranged  Arranged  WEB BASED  Lopamudra Mukherjee

### COMPSCI 172 INTRODUCTION TO 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 Use 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

#1393  Section 01   [units: 3]   Gen Ed Math/Natural Sciences (GM)  NOTE: This is a hybrid course which meets both in the classroom and online each week.
05/27-06/13  MR  10:45 AM - 01:25 PM  MG0115  Jiazhen Zhou
05/27-06/13  Arranged  Arranged  WEB BASED  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

#1394  Section 01   [units: 3]   Gen Ed Math/Natural Sciences (GM)  NOTE: This is a hybrid course which meets both in the classroom and online each week.
07/07-07/25  MR  10:45 AM - 01:25 PM  MG0115  Athula D. A. Gunawardena
07/07-07/25  Arranged  Arranged  WEB BASED  Athula D. A. Gunawardena
**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 included are 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.

#1136  Section 01   [units: 3]   Gen Ed Math/Natural Sciences (GM)   NOTE: This is a hybrid course which meets both in the classroom and on-line each week.

- 05/27-06/13 MWF 10:45 AM - 01:25 PM HY0216 Mohammad H Ahmadi
- 05/27-06/13 TR Arranged WEB BASED Mohammad H Ahmadi

#1138  Section 02   [units: 3]   Gen Ed Math/Natural Sciences (GM)

- 07/07-07/25 MTWRF 10:45 AM - 01:25 PM HE0117 Xueqing Chen

**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

#1670  Section 01   [units: 3]   Gen Ed Math/Natural Sciences (GM)   NOTE: This is a special online section limited to students enrolled in the ECE4U online cohort program. Face to face meeting dates are 7/12, 7/26, and 8/9 from 8:30-11:00am. Additionally, there will be two online meetings two evenings a week, time and day to be determined. Contact Anne Tillett for more information at tilletta@uww.edu. Additional required course fee for Math Manipulations is $45.

- 07/12-08/15 S 08:30 AM - 11:00 AM WH3006 Teri J Alder ECE4U
- 07/07-08/15 Arranged Arranged WEB BASED Teri J Alder

**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.

#1141  Section 01   [units: 5]   Gen Ed Math/Natural Sciences (GM)   NOTE: This is a hybrid course that meets both in the classroom and online each week.

- 07/07-08/15 TWR 10:45 AM - 01:00 PM HH1310 Julie A Letellier
- 07/07-08/15 Arranged Arranged WEB BASED Julie A Letellier

**MATH 253 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’ Hospital’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.

#1142  Section 01   [units: 5]   Gen Ed Math/Natural Sciences (GM)   NOTE: This is a hybrid course that will meet online on Fridays.

- 05/27-07/03 MTWR 10:45 AM - 01:00 PM HH1310 Geethamali G Samaranayake
- 05/27-07/03 Arranged Arranged WEB BASED Geethamali G Samaranayake