

Section V - College of Letters and Sciences

BIOLOGICAL 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. **PREREQ:** Completion of General Studies science requirements.

#2752	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	MWF	09:55 AM - 10:45 AM	UH0238	Stephen L Solheim		
#2786	Section 03	[units: 3]	Gen Ed Math/Natural Sciences (GM)			NOTE: Restricted to students with BSE only.	
	01/20-05/20	TR	12:30 PM - 01:45 PM	UH0236	Elisabeth A Harrahy		

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 placed on volcanoes as major economic resources and potential alternate energy sources.

PREREQ: GEOLOGY 100 OR GEOLOGY 101

#4847	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	MW	02:15 PM - 03:30 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. One field trip is required. A special fee will be assessed to those students electing to participate on an optional field trip to cover transportation costs.

COREQ: MATH 141 OR 140 OR WAIVER

#4848	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	MWF	09:55 AM - 10:45 AM	UH0063	Rex A Hanger		

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

#3246	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	MWF	07:45 AM - 08:35 AM	MG0115	Jiehui Ma		
#3248	Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	MWF	08:50 AM - 09:40 AM	MG0115	Jiehui Ma		
#3260	Section 03	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	TR	09:30 AM - 10:45 AM	MG0115	Zhengnan Shi		
#3272	Section 04	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	W	06:15 PM - 08:45 PM	MG0115	Robert L Horton		
#3290	Section 05	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	MWF	09:55 AM - 10:45 AM	MG0115	Lopamudra Mukherjee		
#3292	Section 06	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	MWF	11:00 AM - 11:50 AM	MG0115	Lopamudra Mukherjee		
#5316	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 2007; students will need to have access to this software in order to successfully complete this class.	
	01/20-05/20	Arranged	Arranged	WEB BASED	Diane Lynn Kosharek		
#5376	Section 08	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	MWF	12:05 PM - 12:55 PM	HY0210	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

#3250	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	TR	11:00 AM - 12:15 PM	MG0115	Jiehui Ma		
#3252	Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	MWF	12:05 PM - 12:55 PM	MG0115	Jiehui Ma		

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

#3282	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/20-05/20	MW	03:45 PM - 05:00 PM	MG0115	Hien M Nguyen		

Start/End Dates	Meeting Days	Meeting Times	Location	Instructor	Course Topic (if applicable)
#3284 Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	08:50 AM - 09:40 AM	HY0210	Zhengnan Shi	
#3286 Section 03	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	09:55 AM - 10:45 AM	HY0210	Zhengnan Shi	
#3288 Section 04	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	02:15 PM - 03:30 PM	HY0210	Zhengnan Shi	

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.

#3202 Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	08:50 AM - 09:40 AM	HE0219	William T Mickelson	
#3204 Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	09:55 AM - 10:45 AM	HE0219	William T Mickelson	
#3206 Section 04	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	12:30 PM - 01:45 PM	C1004	Mohammad H Ahmadi	
#3096 Section 05	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	12:30 PM - 01:45 PM	HY0216	Malvina F Baica	
#3098 Section 06	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	02:15 PM - 03:30 PM	HY0216	Malvina F Baica	
#3100 Section 07	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	09:30 AM - 10:45 AM	HY0216	Athula D. A. Gunawardena	
#3102 Section 08	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	11:00 AM - 11:50 AM	C1004	C V Rao	
#3104 Section 09	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	01:10 PM - 02:00 PM	C1004	C V Rao	
#3106 Section 10	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	02:15 PM - 03:05 PM	C1005	C V Rao	
#3108 Section 11	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	08:00 AM - 09:15 AM	HY0216	William A Sargeant	
#3110 Section 12	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	12:30 PM - 01:45 PM	HE0219	Sobitha W Samaranayake	
#3112 Section 13	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	03:45 PM - 05:00 PM	MG0117	Sobitha W Samaranayake	
#3242 Section 14	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MW	03:20 PM - 04:35 PM	HE0100	Thomas L McFarland	
#4557 Section 15	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MW	04:50 PM - 06:05 PM	HE0100	Thomas L McFarland	
#4560 Section 18	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	09:30 AM - 10:45 AM	MG0122	Leon M Arriola	
#5373 Section 19	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	12:05 PM - 12:55 PM	HE0204	Peter H Lampe	

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

#3060 Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)			NOTE: Required course fee \$42.00
01/20-05/20	MWF	08:50 AM - 09:40 AM	HY0216	Ruth S Whitmore	
#3062 Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)			NOTE: Required course fee \$42.00
01/20-05/20	MWF	09:55 AM - 10:45 AM	HY0216	Ruth S Whitmore	
#3064 Section 03	[units: 3]	Gen Ed Math/Natural Sciences (GM)			NOTE: Required course fee \$42.00
01/20-05/20	MW	02:15 PM - 03:30 PM	HY0216	William A Sargeant	

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.

#3114 Section 01	[units: 5]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MTWRF	01:10 PM - 02:00 PM	HE0112	Leon M Arriola	
#3116 Section 02	[units: 5]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MTWRF	08:50 AM - 09:40 AM	HE0112	Bennette R Harris	
#3118 Section 03	[units: 5]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MTWRF	09:55 AM - 10:45 AM	HE0112	Bennette R Harris	
#3200 Section 04	[units: 5]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MTWRF	11:00 AM - 11:50 AM	HE0112	Pawel Felcyn	

Start/End Dates	Meeting Days	Meeting Times	Location	Instructor	Course Topic (if applicable)
#5407	Section 05 [units: 5]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MTWRF	01:10 PM - 02:00 PM	UH0144	Xueqing Chen	

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.

#3122	Section 01 [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MW	02:15 PM - 03:30 PM	MG0117	James Trier	

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, integration and functions of several variables. As in 760-143, business and social science applications are stressed. College of Business and Economics majors must take this course on a conventional grade basis.

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

#3124	Section 01 [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	08:00 AM - 09:15 AM	C1008	Mohammad H Ahmadi	
#3126	Section 02 [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	09:30 AM - 10:45 AM	C1008	Mohammad H Ahmadi	
#3128	Section 03 [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	W	06:15 PM - 08:45 PM	HY0216	Malvina F Baica	
#3158	Section 04 [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	12:05 PM - 12:55 PM	MG0117	Robert P Siemann	
#3160	Section 05 [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	01:10 PM - 02:00 PM	MG0117	Robert P Siemann	
#3176	Section 06 [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	12:30 PM - 01:45 PM	MG0122	C V Rao	
#3240	Section 07 [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	11:00 AM - 11:50 AM	HE0215	Bennette R Harris	
#4746	Section 08 [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	TR	03:45 PM - 05:00 PM	HY0216	Malvina F Baica	
#5375	Section 09 [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	12:05 PM - 12:55 PM	HE0219	Pawel Felcyn	
#5377	Section 10 [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	W	03:45 PM - 06:15 PM	C1008	Mohammad H Ahmadi	

MATH 250 APPLIED CALCULUS SURVEY FOR BUSINESS AND SOCIAL SCIENCES ... An applied calculus course covering elementary analytic geometry, limits, differentiation, max-min theory, transcendental functions, integration, functions of several variables, and elementary differential equations. Some computer topics may be included. College of Business and Economics majors must take this course on a conventional grade basis.

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

#3130	Section 01 [units: 5]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MW	02:15 PM - 03:05 PM	HE0100	Thomas L McFarland	
01/20-05/20	TR	02:15 PM - 03:30 PM	HE0100	Thomas L McFarland	
#3216	Section 02 [units: 5]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MTWRF	12:05 PM - 12:55 PM	HE0112	Thomas L. Drucker	

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, substitution rule. Conventional grade basis only if course is required in the College of Business for major.

PREREQ: MATH 152 OR EQUIVALENT PREPARATION AS DETERMINED BY THE MATH DEPARTMENT

#3132	Section 01 [units: 5]	Gen Ed Math/Natural Sciences (GM)			NOTE: This is a hybrid course which meets M on-line and TWR in the classroom each week.
01/20-05/20	TWR	02:15 PM - 03:30 PM	HE0211	Fe S Evangelista	
01/20-05/20	M	Arranged	WEB BASED	Fe S Evangelista	
#3134	Section 02 [units: 5]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MTWRF	09:55 AM - 10:45 AM	HE0211	Geethamali G Samaranayake	
#3210	Section 03 [units: 5]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MTWRF	08:50 AM - 09:40 AM	HE0215	Pawel Felcyn	

PHYSICS

Astronomy

ASTRONOMY 114 DESCRIPTIVE ASTRONOMY ... A non-laboratory course that introduces the basic aspects of astronomy, including cultural and historical considerations. The study of galaxies, stars, as well as our solar system is included. Observational activities and field trips may be included as integral parts of the course. Three one-hour lectures per week.

COREQ: MATH 141 OR WAIVER

#3358	Section 01C [units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/20-05/20	MWF	09:55 AM - 10:45 AM	UH0141	Juliana T Constantinescu	

*Start/End Dates**Meeting Days**Meeting Times**Location**Instructor**Course Topic (if applicable)***Physics**

PHYSICS 240 PHYSICS OF SOUND AND MUSIC ... A descriptive course that deals with various properties of sound, the generation of sound by traditional musical instruments and the electronic production and reproduction of sound. The physical process of hearing and the acoustical properties of rooms are also included. Three one-hour lecture periods per week.

COREQ: MATH 140 OR MATH 141

#3312 Section 01C [units: 3] Gen Ed Math/Natural Sciences (GM)

01/20-05/20 TR

12:30 PM - 01:45 PM UH0166

Juliana T Constantinescu