

Start/End Dates

Meeting Days

Meeting Times

Location

Instructor

Course Topic (if applicable)

## Section V - College of Letters and Sciences

### BIOLOGICAL SCIENCES

#### Biological Sciences

**BIOLOGY 214 ECOLOGY AND SOCIETY (GM) ... 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.**

#1949	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	TR	11:00 AM - 12:15 PM	UH0142	Stephen L Solheim		
#1971	Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)	NOTE: Restricted to students with BSE curriculum			
	01/19-05/17	MW	11:00 AM - 12:15 PM	UH0142	Elisabeth A Harrahy		
#2060	Section 03	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	MW	02:00 PM - 03:15 PM	UH0140	George V Clokey		

**BIOLOGY 220 INTRODUCTION TO EPIDEMIOLOGY (GM) ... Introduction to basic principles of tracking changes in health indicators and problems in modern society. We will cover both current and historical cases to learn techniques of gathering information, analysis, and application. Problems will include infectious diseases, environmental problems, and other areas of concern in population health.**

**PREREQ: MATH 141 OR WAIVER OF MATH 141**

#4259	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	MWF	09:00 AM - 09:50 AM	UH0302	Daryle A Waechter-Brulla		

### COMPUTER SCIENCE

#### Computer Science

**COMPSCI 162 COMPUTER APPLICATIONS (GM) ... 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**

#2117	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)	NOTE: This a hybrid course which meets both online and in the classroom.			
	01/19-05/17	Arranged	Arranged	WEB BASED	Jiehui Ma		
	01/19-05/17	W	08:00 AM - 09:15 AM	MG0115	Jiehui Ma		
#2118	Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)	NOTE: This a hybrid course which meets both online and in the classroom.			
	01/19-05/17	Arranged	Arranged	WEB BASED	Jiehui Ma		
	01/19-05/17	W	12:30 PM - 01:45 PM	MG0115	Jiehui Ma		
#2124	Section 03	[units: 3]	Gen Ed Math/Natural Sciences (GM)	NOTE: This a hybrid course which meets both online and in the classroom.			
	01/19-05/17	T	08:00 AM - 09:15 AM	HY0210	Tina Y Cao		
	01/19-05/17	Arranged	Arranged	WEB BASED	Tina Y Cao		
#2130	Section 04	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	W	06:30 PM - 09:00 PM	HH3202	Robert L Horton		
#2135	Section 05	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	T	06:30 PM - 09:00 PM	HY0210	Robert L Horton		
	03/15-05/17	T	06:30 PM - 09:00 PM	HH3202	Robert L Horton		
#2166	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 2013; students will need to have access to this software to successfully complete this class.			
	01/19-05/17	Arranged	Arranged	WEB BASED	Lopamudra Mukherjee		
#2983	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 2013; students will need to have access to this software to successfully complete this class.			
	01/19-05/17	Arranged	Arranged	WEB BASED	Lopamudra Mukherjee		

**COMPSCI 170 INTRODUCTION TO PYTHON PROGRAMMING (GM) ... An introduction to computational thinking and computer programming using the Python language, with applications in science, business, education, and other areas. Students will develop structured programs based on simple algorithms that involve input, output, mathematical operations, decisions, and loops. No previous programming experience is needed.**

**PREREQ: MATH 141 OR WAIVER OF MATH 141**

#3136	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	MW	08:00 AM - 09:15 AM	HY0210	Robert K Kuzoff		

**COMPSCI 171 INTRODUCTION TO PROGRAMMING (GM) ... 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**

#2119	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	MW	02:00 PM - 03:15 PM	HY0210	Jiehui Ma		
#2120	Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	TR	08:00 AM - 09:15 AM	MG0115	Jiehui Ma		

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

**COMPSCI 172 INTRODUCTION TO JAVA (GM) ...** 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: MATH 152 WITH A GRADE OF C OR BETTER, OR MATH 143 WITH A GRADE OF C OR BETTER, OR CALCULUS PLACEMENT, OR CONSENT OF INSTRUCTOR**

#2122	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	MW	09:30 AM - 10:45 AM	MG0115	Cheng Thao		
#2123	Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	TR	11:00 AM - 12:15 PM	MG0115	Hien M Nguyen		
#4550	Section 03	[units: 3]	Gen Ed Math/Natural Sciences (GM)	NOTE: Restricted to students in the Homestead HS cohort			
	01/19-05/17	Arranged	Arranged	OFF CAMPUS	Scott T Nettlesheim	PIE PROGRAM	
	01/19-05/17	Arranged	Arranged	OFF CAMPUS	Hien M Nguyen	PIE PROGRAM	

**COMPSCI 174 INTRODUCTION TO C++ (GM) ...** 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: MATH 152 WITH A GRADE OF C OR BETTER, OR MATH 143 WITH A GRADE OF C OR BETTER, OR CALCULUS PLACEMENT, OR CONSENT OF INSTRUCTOR**

#2137	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	MW	05:00 PM - 06:15 PM	HY0210	Sobitha W Samaranyake		
#2149	Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	TR	09:30 AM - 10:45 AM	MG0115	Hien M Nguyen		

**COMPSCI 181 INTRODUCTION TO DATABASE AND THE WEB (GM) ...** 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**

#2133	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	TR	12:30 PM - 01:45 PM	MG0117	Robert P Siemann		

## GEOGRAPHY, GEOLOGY & ENVIRONMENTAL SCIENCE

### Environmental Science

**ENVSCI 200 INTRODUCTION TO ENVIRONMENTAL SCIENCE (GM) ...** 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.

#2619	Section 01	[units: 4]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	W	02:00 PM - 02:50 PM	UH0160	Rocio R Duchesne-Onoro		
	01/19-05/17	TR	02:00 PM - 03:15 PM	UH0160	Rocio R Duchesne-Onoro		
#4251	Section 02	[units: 4]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	R	11:00 AM - 11:50 AM	UH0160	Andrea Romero		
	01/19-05/17	MW	11:00 AM - 12:15 PM	UH0160	Andrea Romero		

### Geology

**GEOLOGY 204 EARTH AND LIFE HISTORY (GM) ...** 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 MATH 140 OR WAIVER**

#2291	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	MWF	01:00 PM - 01:50 PM	UH0140	Rex A Hanger		

**GEOLOGY 301 ENVIRONMENTAL GEOLOGY (GM) ...** A study of geological phenomena such as earthquakes, volcanism, mass movements, river processes, coastal processes etc. and their impacts on society and environment. 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.

#2296	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	MW	12:30 PM - 01:45 PM	UH0060	Juk Bhattacharyya		
#2297	Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	TR	03:30 PM - 04:45 PM	UH0060	Juk Bhattacharyya		
#2308	Section 03	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/19-05/17	TR	12:30 PM - 01:45 PM	UH0060	Juk Bhattacharyya		

Start/End Dates

Meeting Days

Meeting Times

Location

Instructor

Course Topic (if applicable)

**INTERDEPARTMENTAL****Public Health**

**PUBLH220 INTRODUCTION TO EPIDEMIOLOGY ... Introduction to basic principles of tracking changes in health indicators and problems in modern society. We will cover both current and historical cases to learn techniques of gathering information, analysis, and application. Problems will include infectious diseases, environmental problems, and other areas of concern in population health.**

**PREREQ: MATH 141 OR WAIVER OF MATH 141**

#4275 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 MWF 09:00 AM - 09:50 AM UH0302 Daryle A Waechter-Brulla

**MATHEMATICS****Mathematics**

**MATH 143 FINITE MATHEMATICS FOR BUSINESS AND SOCIAL SCIENCES (GM) ... 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.**

#2377 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the university bookstore.

01/19-05/17 TR 08:00 AM - 09:15 AM UH0144 To Be Arranged

#2378 Section 02 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 MWF 08:00 AM - 08:50 AM MG0125 Khyam N Paneru

#2336 Section 03 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 MW 12:30 PM - 01:45 PM MG0125 Leon M Arriola

#2337 Section 04 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the university bookstore.

01/19-05/17 MWF 09:00 AM - 09:50 AM HE0113 To Be Arranged

#2338 Section 05 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the university bookstore.

01/19-05/17 TR 09:30 AM - 10:45 AM HE0215 Huckleberry Rahr

#2339 Section 06 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 MWF 10:00 AM - 10:50 AM HE0215 Ki-Bong Nam

#2341 Section 08 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 MWF 11:00 AM - 11:50 AM HE0219 Khyam N Paneru

#2342 Section 09 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 MW 11:00 AM - 12:15 PM UH0144 Tamas Szabo

#2343 Section 10 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 MW 11:00 AM - 12:15 PM MG0125 Sobitha W Samaranayake

#2344 Section 11 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 TR 11:00 AM - 12:15 PM HE0219 To Be Arranged

#2345 Section 12 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 TR 11:00 AM - 12:15 PM MG0125 Balamurugan Pandiyan

#2384 Section 13 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the university bookstore.

01/19-05/17 TR 11:00 AM - 12:15 PM HE0215 Huckleberry Rahr

#2387 Section 14 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 MWF 12:00 PM - 12:50 PM HE0117 William T Mickelson

#2390 Section 15 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the university bookstore.

01/19-05/17 MW 12:30 PM - 01:45 PM MG0117 Xueqing Chen

#2393 Section 16 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the University Bookstore.

01/19-05/17 MW 12:30 PM - 01:45 PM HE0219 Huckleberry Rahr

#2409 Section 17 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 TR 12:30 PM - 01:45 PM MG0125 Sobitha W Samaranayake

#2410 Section 18 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 TR 12:30 PM - 01:45 PM HE0100 Thomas L McFarland

#2411 Section 19 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the University Bookstore.

01/19-05/17 TR 12:30 PM - 01:45 PM HE0219 Pawel Felcyn

#2417 Section 20 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 MWF 01:00 PM - 01:50 PM HE0117 William T Mickelson

#3631 Section 21 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17 MWF 02:00 PM - 02:50 PM HE0219 Ki-Bong Nam

<i>Start/End Dates</i>	<i>Meeting Days</i>	<i>Meeting Times</i>	<i>Location</i>	<i>Instructor</i>	<i>Course Topic (if applicable)</i>
#3632 Section 22	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/19-05/17	MW	02:00 PM - 03:15 PM	UH0144	Balamurugan Pandiyan	
#3633 Section 23	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/19-05/17	TR	02:00 PM - 03:15 PM	HE0219	Peter H Lampe	
#3634 Section 24	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the university bookstore.					
01/19-05/17	TR	02:00 PM - 03:15 PM	MG0117	To Be Arranged	
#3635 Section 25	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/19-05/17	TR	02:00 PM - 03:15 PM	MG0125	Robert P Siemann	
#3636 Section 26	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/19-05/17	TR	03:30 PM - 04:45 PM	MG0117	Leon M Arriola	
01/28	R	03:30 PM - 04:45 PM	HE0100	Leon M Arriola	QUIZ
02/11	R	03:30 PM - 04:45 PM	HE0100	Leon M Arriola	QUIZ
02/18	R	03:30 PM - 04:45 PM	HE0100	Leon M Arriola	EXAM
03/03	R	03:30 PM - 04:45 PM	HE0100	Leon M Arriola	QUIZ
03/17	R	03:30 PM - 04:45 PM	HE0100	Leon M Arriola	QUIZ
03/31	R	03:30 PM - 04:45 PM	HE0100	Leon M Arriola	EXAM
04/14	R	03:30 PM - 04:45 PM	HE0100	Leon M Arriola	QUIZ
04/28	R	03:30 PM - 04:45 PM	HE0100	Leon M Arriola	EXAM
#3637 Section 27	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
01/19-05/17	W	05:00 PM - 07:30 PM	HH2311	Xueqing Chen	
#3638 Section 28	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
NOTE: This is a web-based course. Addition course fee of \$150 is required. Exams are to be taken in a proctored environment. Students who cannot come to campus are responsible to find a proctor and obtain the instructor's approval.					
01/19-05/17	Arranged	Arranged	WEB BASED	Tamas Szabo	
#4285 Section 28W	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
NOTE: This section is reserved for online majors. This is a web-based course. Addition course fee of \$150 is required. Exams are to be taken in a proctored environment. Students who cannot come to campus are responsible to find a proctor and obtain the instructor's approval.					
PREREQ: MUST BE ADMITTED TO AN ON-LINE MAJOR					
01/19-05/17	Arranged	Arranged	WEB BASED	Tamas Szabo	

**MATH 148 MATHEMATICS FOR THE ELEMENTARY TEACHER I (GM) ... 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 A WAIVER FROM THE UNIVERSITY MATHEMATICS PROFICIENCY REQUIREMENT**

#2320 Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
NOTE: Required course fee \$26.					
01/19-05/17	TR	08:00 AM - 09:15 AM	HY0216	Rachel M Chaphalkar	
#2321 Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
NOTE: Required course fee \$26.					
01/19-05/17	MWF	12:00 PM - 12:50 PM	HY0216	Angela Kopf Harlan	
02/19	F	12:00 PM - 12:50 PM	HE0101	Angela Kopf Harlan	EXAM
#2322 Section 03	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
NOTE: Required course fee \$26. Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the University Bookstore.					
01/19-05/17	MWF	01:00 PM - 01:50 PM	HY0216	Angela Kopf Harlan	
02/19	F	01:00 PM - 01:50 PM	HE0101	Angela Kopf Harlan	EXAM

**MATH 152 ELEMENTARY FUNCTIONS (GM) ... 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.**

#2346 Section 01	[units: 5]	Gen Ed Math/Natural Sciences (GM)			
01/19-05/17	MTWRF	11:00 AM - 11:50 AM	HH2311	Peter H Lampe	
#2347 Section 02	[units: 5]	Gen Ed Math/Natural Sciences (GM)			
01/19-05/17	MTWRF	12:00 PM - 12:50 PM	HH2311	Julie A Letellier	
#4286 Section 02X	[units: 5]	Gen Ed Math/Natural Sciences (GM)			
NOTE: This section is restricted to the Covalent Bonds Learning Community students.					
01/19-05/17	MTWRF	12:00 PM - 12:50 PM	HH2311	Julie A Letellier	
#2348 Section 03	[units: 5]	Gen Ed Math/Natural Sciences (GM)			
NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the University Bookstore. This is a hybrid course and will have classroom meetings plus online instruction. Further instructions will be given the first day of class.					
01/19-05/17	MTWR	01:00 PM - 01:50 PM	HH1310	Corey T Bruns	
01/19-05/17	F	Arranged	WEB BASED	Corey T Bruns	online
#2376 Section 04	[units: 5]	Gen Ed Math/Natural Sciences (GM)			
NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the university bookstore. This is a hybrid course and will have classroom meetings plus online instruction. Further instructions will be given the first day of class.					
01/19-05/17	MTWR	02:00 PM - 02:50 PM	HH1310	Corey T Bruns	
01/19-05/17	F	Arranged	WEB BASED	Corey T Bruns	online

Start/End Dates	Meeting Days	Meeting Times	Location	Instructor	Course Topic (if applicable)
#2388 Section 05 [units: 5]	Gen Ed Math/Natural Sciences (GM)	NOTE: This is a hybrid course and will have classroom meetings plus online instruction; further instructions will be given the first day of class.			
01/19-05/17	MTWR	04:00 PM - 04:50 PM	UH0144	Balamurugan Pandiyan	
01/19-05/17	F	Arranged	WEB BASED	Balamurugan Pandiyan	online

**MATH 230 INTRODUCTION TO STATISTICAL REASONING AND ANALYSIS (GM) ... A course on the principles, procedures and concepts surrounding the production, summarization and analysis of data. Emphasis on critical reasoning and interpretation of statistical results. Content includes: probability, sampling, and research design; statistical inference, modeling and computing; practical application culminating in a research project. Unreq: ECON 245, PSYCH 215, SOCIOLOGY 295**

**PREREQ: GRADE OF C OR BETTER IN MATH 141 OR CONSENT OF INSTRUCTOR**

#2350 Section 01 [units: 3]	Gen Ed Math/Natural Sciences (GM)				
01/19-05/17	MWF	10:00 AM - 10:50 AM	UH0144	William T Mickelson	
#3680 Section 02 [units: 3]	Gen Ed Math/Natural Sciences (GM)				
01/19-05/17	MWF	02:00 PM - 02:50 PM	HE0117	William T Mickelson	

**MATH 243 SHORT CALCULUS FOR BUSINESS AND SOCIAL SCIENCES (GM) ... 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 MATH 152 WITH A GRADE OF C OR BETTER**

#2351 Section 01 [units: 3]	Gen Ed Math/Natural Sciences (GM)				
01/19-05/17	TR	08:00 AM - 09:15 AM	HE0219	Leon M Arriola	
03/17	R	08:00 AM - 09:15 AM	HE0100	Leon M Arriola	QUIZ
03/31	R	08:00 AM - 09:15 AM	HE0100	Leon M Arriola	TEST
04/14	R	08:00 AM - 09:15 AM	HE0100	Leon M Arriola	QUIZ
04/28	R	08:00 AM - 09:15 AM	HE0100	Leon M Arriola	TEST
#2352 Section 02 [units: 3]	Gen Ed Math/Natural Sciences (GM)				
01/19-05/17	MWF	09:00 AM - 09:50 AM	HE0215	Ki-Bong Nam	
#2353 Section 03 [units: 3]	Gen Ed Math/Natural Sciences (GM)				
01/19-05/17	TR	09:30 AM - 10:45 AM	HE0219	Leon M Arriola	
01/28	R	09:30 AM - 10:45 AM	HE0100	Leon M Arriola	QUIZ
02/11	R	09:30 AM - 10:45 AM	HE0100	Leon M Arriola	QUIZ
02/18	R	09:30 AM - 10:45 AM	HE0100	Leon M Arriola	EXAM
03/03	R	09:30 AM - 10:45 AM	HE0100	Leon M Arriola	QUIZ
03/17	R	09:30 AM - 10:45 AM	HE0100	Leon M Arriola	QUIZ
03/31	R	09:30 AM - 10:45 AM	HE0100	Leon M Arriola	EXAM
04/14	R	09:30 AM - 10:45 AM	HE0100	Leon M Arriola	QUIZ
04/28	R	09:30 AM - 10:45 AM	HE0100	Leon M Arriola	EXAM
#2364 Section 04 [units: 3]	Gen Ed Math/Natural Sciences (GM)				
01/19-05/17	MWF	10:00 AM - 10:50 AM	MG0125	Robert P Siemann	
#2365 Section 05 [units: 3]	Gen Ed Math/Natural Sciences (GM)				
01/19-05/17	MWF	02:00 PM - 02:50 PM	MG0125	Robert P Siemann	
#2371 Section 06 [units: 3]	Gen Ed Math/Natural Sciences (GM)				
01/19-05/17	W	05:00 PM - 07:30 PM	HE0219	Leon M Arriola	
01/27	W	05:00 PM - 07:30 PM	HE0101	Leon M Arriola	QUIZ
02/10	W	05:00 PM - 07:30 PM	HE0101	Leon M Arriola	QUIZ
02/17	W	05:00 PM - 07:30 PM	HE0101	Leon M Arriola	EXAM
03/02	W	05:00 PM - 07:30 PM	HE0101	Leon M Arriola	QUIZ
03/16	W	05:00 PM - 07:30 PM	HE0101	Leon M Arriola	QUIZ
03/30	W	05:00 PM - 07:30 PM	HE0101	Leon M Arriola	EXAM
04/13	W	05:00 PM - 07:30 PM	HE0101	Leon M Arriola	QUIZ
04/27	W	05:00 PM - 07:30 PM	HE0101	Leon M Arriola	EXAM

**MATH 250 APPLIED CALCULUS SURVEY FOR BUSINESS AND SOCIAL SCIENCES (GM) ... 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**

#2381 Section 01 [units: 5]	Gen Ed Math/Natural Sciences (GM)				
01/19-05/17	MTWRF	01:00 PM - 01:50 PM	HH2311	Thomas L. Drucker	
#2397 Section 02 [units: 5]	Gen Ed Math/Natural Sciences (GM)				
01/19-05/17	MW	02:00 PM - 02:50 PM	HE0100	Thomas L. McFarland	
01/19-05/17	TR	02:00 PM - 03:15 PM	HE0100	Thomas L. McFarland	

**MATH 253 CALCULUS AND ANALYTIC GEOMETRY I (GM) ... Review of algebraic and trigonometric functions, transcendental functions, limits, study of the derivative, techniques of differentiation, continuity, applications of the derivative, L' Hopital'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.**

#2354 Section 01 [units: 5]	Gen Ed Math/Natural Sciences (GM)				
01/19-05/17	MTWRF	09:00 AM - 09:50 AM	HH1310	Peter H Lampe	

<i>Start/End Dates</i>	<i>Meeting Days</i>	<i>Meeting Times</i>	<i>Location</i>	<i>Instructor</i>	<i>Course Topic (if applicable)</i>
#2355	Section 02	[units: 5]	Gen Ed Math/Natural Sciences (GM)	NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the university bookstore. This is a hybrid course and will have classroom meetings plus online instruction. Further instructions will be given the first day of class.	
01/19-05/17	MTWR	10:00 AM - 10:50 AM	HH1310	Geethamali G Samaranayake	
01/19-05/17	F	Arranged		Geethamali G Samaranayake	online
#2380	Section 03	[units: 5]	Gen Ed Math/Natural Sciences (GM)	NOTE: Students are required to purchase an access code for an online homework system that will provide immediate feedback and additional support. Codes can be purchased from the university bookstore.	
01/19-05/17	MW	02:00 PM - 02:50 PM	HE0215	Pawel Felcyn	
01/19-05/17	TR	02:00 PM - 03:15 PM	HE0215	Pawel Felcyn	

## PHYSICS

### Astronomy

**ASTRONOMY 114 DESCRIPTIVE ASTRONOMY (GM) ... 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 may be included as integral parts of the course. Three one-hour lectures per week for the regular semester.**

**COREQ: MATH 141 OR WAIVER**

#3550 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: This course will be taught online using D2L. An addition fee of \$150 will be assessed.

01/19-05/17	Arranged	Arranged	WEB BASED	Juliana T Constantinescu
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### Physics

**PHYSICS 240 PHYSICS OF SOUND AND MUSIC (GM) ... 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**

#3546 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM)

01/19-05/17	TR	12:30 PM - 01:45 PM	UH0166	Juliana T Constantinescu
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