

**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)				
	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 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 Use Interface programming. This course is designed for students with some prior programming experience.**

**PREREQ: MATH 152 OR MATH 143 OR CALCULUS PLACEMENT OR CONSENT OF INSTRUCTOR**

#3256	Section 01	[units: 3]					
	01/20-05/20	TR	12:30 PM - 01:45 PM	MG0115	Athula D. A. Gunawardena		
#3258	Section 02	[units: 3]					
	01/20-05/20	TR	02:15 PM - 03:30 PM	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**

#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		
#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		

**COMPSCI 271 ASSEMBLY PROGRAMMING ... A study of assembly language basic instructions, number systems, information move, integer arithmetic, subroutine linkage, memory allocation, bit manipulation, floating point arithmetic, macro definition and conditional assembly, the program status word, interrupt and I/O structure.**

**PREREQ: COMPSCI 172**

#3254	Section 01	[units: 3]					
	01/20-05/20	TR	08:00 AM - 09:15 AM	HY0210	Athula D. A. Gunawardena		

**COMPSCI 302 COMPUTER LOGIC AND MICROPROCESSORS ... Structure of microprocessors and microprocessor systems, programming in machine language, computer logic and logic circuits, interfacing.**

**PREREQ: COMPSCI 172**

#3296	Section 01	[units: 3]					
	01/20-05/20	MW	03:45 PM - 05:00 PM	HY0210	Lopamudra Mukherjee		

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

**COMPSCI 481 WEB SERVER AND UNIX ADMINISTRATION ...** This course is intended to introduce students to Web Server software and UNIX and UNIX-like operating systems from the perspective of the System Administrator. Linux, the fastest growing operating system, will be studied in detail, together with the Apache web server. Web server configuration will be studied, including optimization, security issues and virtual server administration. Additional topics will include shell programming, system monitoring, file systems and the X Windows GUI. This course will focus on common system administration duties on the Linux platform. Students will acquire competency in using shell programming skills to automate the maintenance of server activity. Emphasis will be placed on using Linux as an Internet server.

**PREREQ: COMPSCI 381 AND 382 OR EQUIVALENT PREPARATION OR CONSENT OF INSTRUCTOR**

#3262 Section 01 [units: 3]  
01/20-05/20 M 06:15 PM - 08:45 PM HY0210 Bennette R Harris

**COMPSCI 482 WEB DATABASE DEVELOPMENT ...** This course will introduce students to MySQL databases and PHP3 scripting on a UNIX platform. Students will create and interact with databases via the web. Topics will include SQL; creating, accessing and updating server-side databases; a variety of database-to-web interface tools; and the PHP embedded scripting language. Transactions with other database products via PHP will also be considered.

**PREREQ: COMPSCI 381 AND 382 OR EQUIVALENT PREPARATION OR CONSENT OF INSTRUCTOR**

#3264 Section 01 [units: 3]  
01/20-05/20 T 06:15 PM - 08:45 PM HY0210 Sobitha W Samaranayake

**COMPSCI 498 INDEPENDENT STUDY IN COMPUTER SCIENCE ...** Study of a selected topic or topics under the direction of a faculty member. Repeatable. Department Consent required.

#3266 Section 01 [units: 3] Dept. Consent

01/20-05/20 Arranged Arranged Hien M Nguyen

#3268 Section 02 [units: 1-3] Dept. Consent

01/20-05/20 Arranged Arranged Hien M Nguyen ARTIFICIAL INTELLIGENCE

#3270 Section 03 [units: 1-3] Dept. Consent

All class meeting details to be arranged.

#3276 Section 04 [units: 1-3] Dept. Consent

All class meeting details to be arranged.

\*\*\* GRADUATE LEVEL COURSES \*\*\*

**COMPSCI 798 INDIVIDUAL STUDIES ...** Study of a selected topic or topics under the direction of a faculty member.

#3274 Section 01 [units: 1-3]  
01/20-05/20 Arranged Arranged To Be Arranged

## Mathematics

**MATH 40 PRE-ALGEBRA ...** A course for students who need a review of basic mathematics or who lack the computational skills required for success in algebra and other University courses. Topics include fractions, decimals, percent, descriptive statistics, English and metric units of measure, and measures of geometric figures. Emphasis is on applications. A brief introduction to algebra is included at the end of the course. This course does count toward the semester credit load and will be computed into the grade point average. It will not be included in the 120 credits required for graduation. It may be taken for a conventional grade or on a satisfactory/no credit basis. Not available to students who have satisfied the University Proficiency requirement in mathematics. ACT Math subscore 14 or below (SAT 340 or below) Arithmetic skills test required.

#3056 Section 01 [units: 3]  
01/20-05/20 MWR 05:10 PM - 05:55 PM MC0112 Eric P Anderson

**MATH 41 BEGINNING ALGEBRA ...** A course for those who have a sound background in basic arithmetic, but who have not been exposed to algebra, or who need to strengthen their basic algebra skills. Topics include properties of the real numbers, linear and quadratic equations, linear inequalities, exponents, polynomials, rational expressions, the straight line, and systems of linear equations. The course counts towards the semester credit load and will be computed into the grade point average. It will not, however, be included in the credits necessary for graduation. It may be taken for a conventional grade or on a satisfactory/no credit basis.

**Prereq: 760-040 or equivalent demonstration of capability.** Students cannot receive credit for 760-041 if they have been waived from the Mathematics Proficiency Requirement. Not available to students who have satisfied the University Proficiency requirement in mathematics.

**PREREQ: MATH 040 OR ITS EQUIVALENT**

#3148 Section 01 [units: 4]  
01/20-05/20 MTWR 08:50 AM - 09:40 AM MC0011A Richard D Pierson

#3168 Section 02 [units: 4]  
01/20-05/20 MTWR 08:50 AM - 09:40 AM MC0112 Brenda K Volk

#3150 Section 03 [units: 4]  
01/20-05/20 MTWR 09:55 AM - 10:45 AM MC0112 Brenda K Volk

#3152 Section 04 [units: 4]  
01/20-05/20 MTWR 09:55 AM - 10:45 AM MC0011A Lori L Grady

#3058 Section 05 [units: 4]  
01/20-05/20 MTWR 11:00 AM - 11:50 AM MC0112 Richard D Pierson

#3184 Section 06 [units: 4]  
01/20-05/20 MTWR 12:05 PM - 12:55 PM MC0112 Lori L Grady

#3190 Section 07 [units: 4]  
01/20-05/20 MTWR 01:10 PM - 02:00 PM MC0112 Tiffany Tardy

#5254 Section 08 [units: 4]  
01/20-05/20 MTWR 02:15 PM - 03:05 PM MC0112 Tiffany Tardy

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

**MATH 140 MATHEMATICAL IDEAS ...** Designed to give students a broad understanding and appreciation of mathematics. Includes topics not usually covered in a traditional algebra course. Topics encompass some algebra, problem solving, counting principles, probability, statistics, and consumer mathematics. This course is designed to meet the University Proficiency Requirement in mathematics for those students who do not wish to take any course which has 760-141 as a prerequisite. ACT Math subscore 19-23 (SAT 460-550)

**PREREQ: MATH 041 WITH A GRADE OF C OR BETTER, OR DEMONSTRATION OF EQUIVALENT CAPABILITY**

#3072 Section 01 [units: 3]

01/20-05/20 TR 09:30 AM - 10:45 AM UH0144 Ruth S Whitmore

**MATH 141 INTERMEDIATE ALGEBRA ...** Introduction to college algebra. Topics and concepts extend beyond those taught in a beginning algebra course. A proficiency course for those who have not had sufficient preparation in high school to allow them to take MATH 143 or MATH 152. ACT Math subscore 19-23 (SAT 460-550)

**PREREQ: MATH 041 WITH A GRADE OF C OR BETTER OR ITS EQUIVALENT**

#3074 Section 01 [units: 4] NOTE: This is a hybrid course which meets M on-line and TWR in the classroom each week.

01/20-05/20 TWR 01:10 PM - 02:00 PM HE0211 Fe S Evangelista

01/20-05/20 M Arranged WEB BASED Fe S Evangelista

#3076 Section 02 [units: 4]

01/20-05/20 MTWR 12:05 PM - 12:55 PM HE0215 Janet M Ley

#3220 Section 03 [units: 4]

01/20-05/20 MTWR 01:10 PM - 02:00 PM HE0215 Janet M Ley

#3078 Section 04 [units: 4]

01/20-05/20 MTWR 02:15 PM - 03:05 PM HE0215 Janet M Ley

#3080 Section 05 [units: 4]

01/20-05/20 MTWR 08:50 AM - 09:40 AM HE0211 Geethamali G Samaranyake

#3082 Section 06 [units: 4]

01/20-05/20 MTWR 12:05 PM - 12:55 PM HE0211 Geethamali G Samaranyake

#3084 Section 07 [units: 4]

01/20-05/20 MTWR 08:50 AM - 09:40 AM HE0117 Joan Stamm

#5281 Section 07X [units: 4] NOTE: LEARNING COMMUNITY: STEPPING STONES

LEARNING COMMUNITIES - STEPPING STONES

01/20-05/20 MTWR 08:50 AM - 09:40 AM HE0117 Joan Stamm

#3086 Section 08 [units: 4]

01/20-05/20 MTWR 09:55 AM - 10:45 AM HE0117 Joan Stamm

#3154 Section 09 [units: 4]

01/20-05/20 MTWR 12:05 PM - 12:55 PM HE0117 Joan Stamm

#3088 Section 10 [units: 4]

01/20-05/20 MTWR 02:15 PM - 03:05 PM HE0112 Peter H Lampe

#3090 Section 11 [units: 4]

01/20-05/20 MTWR 09:55 AM - 10:45 AM HE0215 Tamas Szabo

#3156 Section 12 [units: 4]

01/20-05/20 MTWR 12:05 PM - 12:55 PM UH0144 Xueqing Chen

#4552 Section 14 [units: 4]

01/20-05/20 MTWR 07:45 AM - 08:35 AM MG0117 Thomas L. Drucker

#4553 Section 15 [units: 4]

01/20-05/20 MTWR 01:10 PM - 02:00 PM HE0117 Gado A Ongwela

#4554 Section 16 [units: 4]

01/20-05/20 MTWR 02:15 PM - 03:05 PM HE0117 Gado A Ongwela

#4555 Section 17 [units: 4]

01/20-05/20 MTWR 03:45 PM - 04:35 PM HE0117 Gado A Ongwela

#4556 Section 18 [units: 4]

NOTE: This is a hybrid course which meets MW on-line and TR in the classroom each week.

01/20-05/20 TR 08:50 AM - 09:40 AM MG0117 Julie A Letellier

01/20-05/20 MW Arranged WEB BASED Julie A Letellier

**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

Class#	Section (Units)	General Education Designation (if any)	Start/End Dates	Meeting Days	Meeting Times	Location	Instructor	Course Topic (if applicable)
#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)	01/20-05/20	MWF	08:50 AM - 09:40 AM	HY0216	Ruth S Whitmore	NOTE: Required course fee \$42.00
#3062	Section 02 [units: 3]	Gen Ed Math/Natural Sciences (GM)	01/20-05/20	MWF	09:55 AM - 10:45 AM	HY0216	Ruth S Whitmore	NOTE: Required course fee \$42.00
#3064	Section 03 [units: 3]	Gen Ed Math/Natural Sciences (GM)	01/20-05/20	MW	02:15 PM - 03:30 PM	HY0216	William A Sargeant	NOTE: Required course fee \$42.00

**MATH 149 MATHEMATICS FOR THE ELEMENTARY TEACHER II ... Topics in probability and statistics, with emphasis on descriptive techniques.**

**Investigations in geometric figures, measurement, construction, transformations, congruent and similar geometric figures. Problem solving strategies, manipulatives, and cooperative learning activities are emphasized throughout the course. All students will prepare a mathematics based activity and present it at an area elementary school.**

**PREREQ: MATH 148 WITH A GRADE OF C OR BETTER**

#3066	Section 01 [units: 3]	NOTE: A required course fee of \$42.00 will be charged to students who did not receive a math manipulative kit in MATH 148.	01/20-05/20	TR	02:15 PM - 03:30 PM	UH0144	Ruth S Whitmore	
#3068	Section 02 [units: 3]	NOTE: A required course fee of \$42.00 will be charged to students who did not receive a math manipulative kit in MATH 148.	01/20-05/20	MWF	11:00 AM - 11:50 AM	HY0216	William A Sargeant	
#3070	Section 03 [units: 3]	NOTE: A required course fee of \$42.00 will be charged to students who did not receive a math manipulative kit in MATH 148.	01/20-05/20	MWF	12:05 PM - 12:55 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	
#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 177 THE LOGIC OF CHESS ... A study of logic particularly as it is used in the game of chess and, most particularly, in chess strategy and the end game of chess. The rules are taught to those who are not already acquainted with the game.**

**PREREQ: MATH 141 OR MATH 140**

#3120	Section 01 [units: 1]		01/20-05/20	M	06:15 PM - 07:30 PM	HE0100	Thomas L McFarland	
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Start/End Dates Meeting Days Meeting Times Location Instructor Course Topic (if applicable)

**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 Samaranyake

#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

**MATH 254 CALCULUS AND ANALYTIC GEOMETRY II ... Techniques of integration, applications of the integral, introduction to differential equations, polar coordinates and conic sections, infinite sequences and series. This course includes a writing component.**

**PREREQ: MATH 250 WITH A GRADE OF B OR BETTER OR MATH 253**

#3136 Section 01 [units: 5]  
01/20-05/20 MW 02:15 PM - 03:05 PM MG0122 Jonathan M Kane  
01/20-05/20 TR 02:15 PM - 03:30 PM MG0122 Jonathan M Kane

#3138 Section 02 [units: 5]  
01/20-05/20 MTWRF 11:00 AM - 11:50 AM HE0211 Peter H Lampe

**MATH 255 CALCULUS AND ANALYTIC GEOMETRY III ... Solid analytic geometry, vectors and vector functions, functions of several variables, multiple integrals and their applications.**

**PREREQ: MATH 254 PREREQ**

#3140 Section 01 [units: 3]  
01/20-05/20 MWF 02:15 PM - 03:05 PM MG0115 Leon M Arriola

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

**MATH 280 DISCRETE MATHEMATICS ...** This course will supply a thorough grounding in the mathematical topics which are central to the study of computer science, and which form the basis for many modern applications of mathematics to the social sciences. Topics covered will include sets, logic, Boolean algebra and switching circuits, combinatorics, probability, graphs, trees, recursion, and algorithm analysis. Expressing mathematical ideas and writing proofs will be emphasized.

**PREREQ: MATH 250 WITH A GRADE OF B OR BETTER OR MATH 253**

#3142 Section 01 [units: 3]  
01/20-05/20 MWF 08:50 AM - 09:40 AM C1003 Peter H Lampe

#3212 Section 02 [units: 3]  
01/20-05/20 MW 02:15 PM - 03:30 PM UH0144 Lopamudra Mukherjee

**MATH 301 INTRODUCTION TO ANALYSIS ...** The main emphasis of this course is to introduce students to mathematical proofs. Students will learn to read and write proofs in mathematics by writing proofs of theorems about limits, sets of real numbers, and continuous functions. If time permits, other topics may include derivative and integration theorems, theory of open and closed sets, and cardinality of sets.

**PREREQ: MATH 255 AND MATH 280**

#3198 Section 01 [units: 3]  
01/20-05/20 MWF 08:50 AM - 09:40 AM MG0121 Thomas L. Drucker

**MATH 353 COLLEGE GEOMETRY ...** The topics included in this course are foundations of Euclidean geometry, Euclidean transformational geometry, modern synthetic geometry that builds on Euclidean geometry, selected finite geometries, and an introduction to non-Euclidean and projective geometry, including their relationship to Euclidean geometry. Although the course is adapted to the prospective teacher of geometry, it will also meet the needs of those in other majors needing a background in geometry. Standards and guidelines of appropriate national and local bodies will be implemented.

**PREREQ: MATH 253 AND MATH 280**

#3162 Section 01 [units: 5]  
01/20-05/20 MW 03:45 PM - 04:35 PM MG0122 Tamas Szabo  
01/20-05/20 TR 03:45 PM - 05:00 PM HY0210 Tamas Szabo

**MATH 355 MATRICES AND LINEAR ALGEBRA ...** Systems of linear equations, matrices and determinants, finite dimensional vector spaces, linear dependence, bases, dimension, linear mappings, orthogonal bases, and eigenvector theory. Applications stressed throughout.

**PREREQ: MATH 253 OR MATH 250 OR CONSENT OF INSTRUCTOR**

#3208 Section 01 [units: 3]  
01/20-05/20 MWF 12:05 PM - 12:55 PM UH0142 Sobitha W Samaranayake

**MATH 359 MATHEMATICAL MODELING & STATISTICS ...** An introduction to mathematical modeling and descriptive statistics. Students will develop the basic skills of formulation, simplification, and analysis of mathematical models for describing and predicting physical phenomena. The basic tools of descriptive statistics will also be introduced; the use of descriptive statistics in formulating and interpreting mathematical models will be emphasized. This course contains a writing component.

**PREREQ: MATH 255 OR CONSENT OF INSTRUCTOR**

#3164 Section 01 [units: 3]  
01/20-05/20 MWF 01:10 PM - 02:00 PM HY0210 William T Mickelson

**MATH 415 MODERN ALGEBRA AND NUMBER THEORY FOR THE ELEMENTARY TEACHER ...** An introduction to modern algebra with special emphasis on the number systems and algorithms which underlie the mathematics curriculum of the elementary school. Topics from logic, sets, algebraic structures, and number theory.

**PREREQ: MATH 149 AND MATH 152**

#3166 Section 01 [units: 3]  
01/20-05/20 MW 02:15 PM - 03:30 PM HE0219 Tamas Szabo

**MATH 446 ACTUARIAL MATHEMATICS ...** This course will discuss the actuarial profession and the insurance industry, provide direction to students wishing to take the first few actuarial examinations, thoroughly cover the theory of interest, and introduce the basic concepts of actuarial mathematics.

**COREQ: MATH 441**

#4771 Section 01 [units: 3]  
01/20-05/20 TR 09:30 AM - 10:45 AM MG0121 Jonathan M Kane

**MATH 449 ACTUARIAL EXAMINATION PREPARATION ...** Designed for students preparing to take either the first (probability) or second (interest theory) actuarial examination, the course will review the mathematics required for the examination and bring the student through a series of exercises design to give them the required training to pass their examination.

**PREREQ: MATH 441**

#4770 Section 01 [units: 1]  
01/20-05/20 M 06:15 PM - 07:55 PM MG0122 Jonathan M Kane

**MATH 452 INTRODUCTION TO ABSTRACT ALGEBRA ...** An introductory survey of abstract algebra and number theory with emphasis on the development and study of the number systems of integers, integers mod  $n$ , rationals, reals, and complex numbers. These offer examples of and motivation for the study of the classical algebraic structures of groups, rings integral domains and fields. Applications to algebraic coding theory and crystallography will be developed if time allows.

**PREREQ: MATH 280 OR CONSENT OF INSTUCTOR**

#3218 Section 02 [units: 3]  
01/20-05/20 MWF 09:55 AM - 10:45 AM MG0121 Xueqing Chen

**MATH 498 INDEPENDENT STUDY ...** Study of a selected topic or topics under the direction of a faculty member. Repeatable. Department Consent required.

#3144 Section 01 [units: 3] Dept. Consent  
01/20-05/20 W 12:00 PM - 12:50 PM C3008 Julie A Letellier

#3146 Section 02 [units: 1] Dept. Consent  
01/20-05/20 W 12:00 PM - 12:50 PM C3008 Julie A Letellier

Class#	Section (Units)	General Education Designation (if any)	Start/End Dates	Meeting Days	Meeting Times	Location	Instructor	Course Topic (if applicable)	Consent
#3172	Section 03 [units: 1]		01/20-05/20	Arranged			Jonathan M Kane		Dept. Consent
#3174	Section 04 [units: 1-3]		01/20-05/20	Arranged	Arranged		Thomas L. Drucker	THEORY OF NUMBERS	Dept. Consent
#3186	Section 05 [units: 3]		01/20-05/20	Arranged	Arranged		Tamas Szabo		Dept. Consent

\*\*\* GRADUATE LEVEL COURSES \*\*\*

**MATH 555 MATRICES AND LINEAR ALGEBRA ...** Systems of linear equations, vector spaces, linear dependence, bases, dimension, linear mappings, matrices, determinants, quadratic forms, orthogonal reduction to diagonal form, eigenvalues, geometric applications.

**PREREQ: MATH 253 OR MATH 250 OR CONSENT OF INSTRUCTOR**

#3178	Section 01 [units: 3]		01/20-05/20	MWF	12:05 PM - 12:55 PM	UH0142	Sobitha W Samaranayake		
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**MATH 615 MODERN ALGEBRA AND NUMBER THEORY FOR THE ELEMENTARY TEACHER ...** An introduction to modern algebra with special emphasis on the number systems and algorithms which underlie the mathematics curriculum of the elementary school. Topics include sets, rings, integral domains, rational numbers, real numbers, complex numbers and polynomials. Students may not receive credit for both 760-615 and 760-652.

**PREREQ: MATH 149 AND MATH 152**

#3180	Section 01 [units: 3]		01/20-05/20	MW	02:15 PM - 03:30 PM	HE0219	Tamas Szabo		Instructor Consent
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**MATH 798 INDIVIDUAL STUDIES ...** In addition to allowing students to carry on independent studies in a wide variety of graduate level topics, students may take many of the department's upper level undergraduate courses supplemented with graduate components. These courses include advanced calculus, complex variables, differential equations, abstract algebra, number theory, probability, statistics, and more.

#3182	Section 01 [units: 1-3]		01/20-05/20	Arranged	Arranged		To Be Arranged		Dept. Consent
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NOTE: In addition to allowing students to carry on independent studies in a wide variety of graduate level topics, students may take many of the department's upper level undergraduate courses supplemented with graduate components. These courses include advanced calculus, complex variables, differential equations, abstract algebra, number theory, probability, statistics, and more.