MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (3 credits)
This course embraces the visual arts to introduce students to the foundational elements of mathematical and computational thinking. Visual patterns form the basis for explorations in arithmetic and geometric sequences, from which algebraic functions and corresponding functions in computer programs are reasoned.
Distribution: Math

MATH 1130 QUANTITATIVE LITERACY (3 credits)
Designed to equip students with the mathematical, statistical, and computational skills necessary to explore real-life situations. Students will learn and practice critical-thinking and problem-solving skills needed to use quantitative information to make responsible decisions in a variety of areas such as finance, health, and the environment.
Distribution: Math

MATH 1210 INTERMEDIATE ALGEBRA (3 credits)
This course is designed to prepare students to be successful in MATH 1220. Topics include simplifying mathematical expressions, the properties of equality, solving linear equations in one variable, using linear equations to solve problems, fractions, ratios and proportions, graphing and the rectangular coordinate system, relations and functions, systems of linear equations and inequalities in two variables, polynomial expressions and functions, factoring and solving polynomial equations. Credit earned in MATH 1210 will not count toward degree requirements.
Prerequisite(s)/Corequisite(s): One of the following within the last two years: ALEKS score of 1 or 2, ACT Math sub score of 18 or less, Math SAT sub score at least 220, Math SAT2016 sub score at least 230, Accuplacer score of 1 or 2, or MATH 1210.

MATH 1220 COLLEGE ALGEBRA (3 credits)
This course presents properties of real numbers, linear equations and graphing, systems of equations, linear inequalities, polynomials, algebraic fractions, exponents, logarithms, and an Introduction to Statistics. This course is designed to prepare students to be successful in MATH 1320 or MATH 1370. Students who have passed MATH 1310 with a C- or better should not take this course.
Prerequisite(s)/Corequisite(s): Within the last two years: ALEKS score at least 3, ACT Math at least 19, SAT Math at least 460, SAT2016 Math at least 500, Accuplacer at least 3, MATH 1210 C- or better or MATH 1220. Students who passed MATH 1310 (C- or better) should not take MATH 1220.
Distribution: Math

MATH 1320 PRE-CALCULUS ALGEBRA (3 credits)
An advanced algebra course that teaches the following topics: algebraic operations, functions, graphs, linear and quadratic equations and inequalities, polynomial and rational functions, systems of equations, binomial theorem, complex numbers, exponentials, logarithms, sequences, series, and combinatorics.
Prerequisite(s)/Corequisite(s): One of the following within the last two years: ALEKS score of at least 4, ACT Math at least 23, SAT Math at least 540, Math SAT2016 at least 570, Accuplacer score at least 4, MATH 1220 or MATH 1310 each with C- or better, or MATH 1320

MATH 1330 TRIGONOMETRY (3 credits)
This course introduces elements of plane trigonometry, including trigonometric and circular functions, inverse trigonometric functions, solutions of triangles, identities and conditional equations, vectors, and conic sections.
Prerequisite(s)/Corequisite(s): One of the following within the last two years: ALEKS score of at least 5, ACT Math at least 25, Math SAT at least 570, Math SAT2016 at least 590, Accuplacer at least 5, MATH 1320 with C- or better, or MATH 1330

MATH 1340 ALGEBRA AND TRIGONOMETRY FOR CALCULUS (5 credits)
A combined algebra and trigonometry course for science and engineering students planning to enroll in MATH 1950. Topics include: systems of equations, polynomials and rational functions, exponential and logarithmic functions, trigonometric functions and their inverses, trigonometric identities and applications, conic sections, and complex numbers. Credit for both MATH 1320/MATH 1340 and MATH 1340, or both MATH 1330 and MATH 1340 will not be given.
Prerequisite(s)/Corequisite(s): One of the following within the last two years: ALEKS score of at least 4, ACT Math at least 23, Math SAT at least 540, Math SAT2016 at least 570, Accuplacer at least 5, MATH 1310 or MATH 1220 C- or better, or MATH 1340

MATH 1370 APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (4 credits)
This is an applied algebra course with optimization, teaching the following topics with an emphasis on data analysis and application: algebraic, exponential, and logarithmic functions; derivatives and applications thereof; and statistics. The course will emphasize data analysis and applications of covered topics in order to demonstrate the relevance of mathematics to solving real-world problems.
Prerequisite(s)/Corequisite(s): One of the following within the last two years: ALEKS score of at least 4, ACT Math sub score at least 23, SAT Math at least 540, SAT2016 Math at least 570, Accuplacer at least 4, MATH 1310 or MATH 1220 with C- or better, or MATH 1370

MATH 1930 CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (3 credits)
Topics covered include functions, limits, derivatives, integrals, and applications. Trigonometry is not required. May not be used as a prerequisite for MATH 1960. Credit will not be granted for both MATH 1930 and 1950.
Prerequisite(s)/Corequisite(s): One of the following within the last two years: ALEKS score of at least 5, ACT Math sub score at least 25, Math SAT at least 570, or Math SAT2016 at least 590, Accuplacer score at least 6, MATH 1320 with C- or better, or MATH 1930

MATH 1940 CALCULUS FOR BIOMEDICINE (5 credits)
Introductory calculus with an emphasis on dynamical systems analysis applied to biological systems. Topics include differential and integral calculus, elementary chaos theory, discrete modeling, neural networks, and elementary differential equations, population dynamics, and biochemical signal transduction.
Prerequisite(s)/Corequisite(s): One of the following within the last two years: ALEKS score of at least 5, ACT Math sub score at least 25, Math SAT at least 570, Math SAT2016 at least 590, Accuplacer score at least 6, MATH 1320 with C- or better; or permission of instructor

MATH 1950 CALCULUS I (5 credits)
This is a course in plane analytic geometry emphasizing the study of functions, limits, derivatives and applications, and an introduction to integration.
Prerequisite(s)/Corequisite(s): One of the following within the last two years: ALEKS score of at least 6, ACT Math at least 26, Math SAT at least 590, Math SAT2016 at least 610, Accuplacer score of 7, MATH 1320 and MATH 1330 or MATH 1340 with C- or better; or permission of instructor

MATH 1960 CALCULUS II (5 credits)
This course introduces applications of integration, techniques of integration, infinite sequences and series, vectors in the plane, and polar functions. A mathematical software package is introduced, with required assignments.
Prerequisite(s)/Corequisite(s): MATH 1950 with a grade of C- or better or permission of instructor.
MATH 1970 CALCULUS III (4 credits)
This course presents vector functions, parametric equations, solid analytic geometry, partial differentiation, multiple integration, and an introduction to vector calculus. A mathematical software package is introduced with required assignments.
Prerequisite(s)/Corequisite(s): MATH 1960 with a grade of C- or better, or MATH 1970 with a grade of F or better, or permission of instructor.

MATH 2030 DISCRETE MATHEMATICS (3 credits)
A foundations course in discrete mathematics for applied disciplines, including computer science and computer engineering. Topics include: logic, sets, relations, functions, complexity functions and big conjugates, induction and recursive definitions, elementary combinatorics, discrete probability, graphs and trees.
Prerequisite(s)/Corequisite(s): MATH 1950 or MATH 1930.

MATH 2050 APPLIED LINEAR ALGEBRA (3 credits)
This course presents Matrix algebra, simultaneous equations, vector spaces, with applications of linear algebra and computational considerations. Mathematical software is utilized, with required assignments.
Prerequisite(s)/Corequisite(s): MATH 1940 or MATH 1950 with a grade of C- or better

MATH 2200 MATHEMATICAL COMPUTING I (3 credits)
This is a first course in mathematical computing. It covers the basic elements of scientific programming in both a computer algebra system and a high-level programming language. Explored are implementation issues, problem description, model building, method development, and solution assessment.
Prerequisite(s)/Corequisite(s): MATH 1950

MATH 2230 INTRODUCTION TO ABSTRACT MATH (3 credits)
This course provides a transition from the calculus to more abstract mathematics. Topics include logic, sets and functions, an introduction to mathematical proof, mathematical induction, relations. Important prerequisite material for a number of more advanced mathematics courses is studied. Credit will not be given for both MATH 2030 (or MATH 2040) and MATH 2230.
Prerequisite(s)/Corequisite(s): MATH 1960 or permission

MATH 2350 DIFFERENTIAL EQUATIONS (3 credits)
Topics include solutions of linear and first-order nonlinear differential equations with applications, higher-order linear differential equations with applications, power series solutions, and Laplace transform methods.
Prerequisite(s)/Corequisite(s): MATH 1960 with a grade of C- or better or permission of instructor.

MATH 3100 APPLIED COMBINATORICS (3 credits)
Basic counting methods, generating functions, recurrence relations, principle of inclusion-exclusion. Polya’s formula. Elements of graph theory, trees and searching network algorithms. (Cross-listed with MATH 8105, CSCI 3100, CSCI 8105).
Prerequisite(s)/Corequisite(s): MATH 2030, MATH 2040, MATH 2230, or CSCI 2030 all with a C- or better. Mathematical logic; Set theory; Relations; Functions; Congruences; Inductive and recursive definitions; Discrete probability; sets, graphs, trees, & matrices

MATH 3200 MATHEMATICAL COMPUTING II (3 credits)
This course is a second course in mathematical computing. It covers the design and development of algorithms and more advanced elements of programming in a mathematical context. The programming language Python will be used. The programming assignments are primarily based on data science and calculus concepts and are designed to reinforce and deepen the understanding of these concepts.
Prerequisite(s)/Corequisite(s): CIST 1400 or MATH 2200, and MATH 1970 (the latter may be taken concurrently)

MATH 3230 INTRODUCTION TO ANALYSIS (3 credits)
This course provides a theoretical foundation for the concepts of elementary calculus. Topics include real number system, topology of the real line, limits, functions of one variable, continuity, differentiation. (Cross-listed with MATH 8235).
Prerequisite(s)/Corequisite(s): MATH 1960 and MATH 2230 each with a grade of C- or better.

MATH 3300 NUMERICAL METHODS (3 credits)
This course involves solving nonlinear algebraic equations and systems of equations, interpolation and polynomial approximation, numerical differentiation and integration, numerical solutions to ordinary differential equations, analysis of algorithms and errors, and computational efficiency. (Cross-listed with MATH 8305, CSCI 3300, CSCI 8305).
Prerequisite(s)/Corequisite(s): MATH 1960 with a C- or better or permission of instructor

MATH 3400 THEORY OF INTEREST (3 credits)
A study of the measurement of interest, annuities, amortization schedules and other financial mathematics topics.
Prerequisite(s)/Corequisite(s): MATH 1970

MATH 3640 MODERN GEOMETRY (3 credits)
This course will study the modern foundations of Euclidean and Non-Euclidean Geometry. Included will be a study of the principles of axiomatic systems. Euclidean Geometry will be investigated using Hilbert's axioms for Euclidean geometry (or another equivalent Euclidean geometry axiom set). Hyperbolic geometry will be encountered through the models of Klein and Poincare. Neutral geometry with Lambert and Saccheri quadrilaterals will be studied. Finite geometries and projective geometries will also be explored. (Cross-listed with MATH 8645).
Prerequisite(s)/Corequisite(s): MATH 2230 with a grade of C- or better.

MATH 3850 HISTORY OF MATHEMATICS (3 credits)
An overview of the history of mathematics and famous mathematicians via studying and solving famous mathematical problems, exploring famous mathematical theorems, and studying the biographies of famous mathematicians. (Cross-listed with MATH 8855).
Prerequisite(s)/Corequisite(s): Students who enroll in this course should have completed MATH 1970 and MATH 2230 in order to have the minimum amount of mathematical background needed to appreciate the mathematical content of the course.

MATH 4010 INTRODUCTION TO THE THEORY OF RECURSIVE FUNCTIONS (3 credits)
This is a proof-oriented course presenting the foundations of Recursion Theory. We present the definition and properties of the class of primitive recursive functions, study the formal models of computation, and investigate partially computable functions, universal programs. We prove Rice’s Theorem, the Recursion Theorem, develop the arithmetic hierarchy, demonstrate Post’s theorem. Introduction to the formal theories of computability and complexity is also given. (Cross-listed with CSCI 4010, CSCI 8016, MATH 8016).
Prerequisite(s)/Corequisite(s): MATH 2230 or MATH 2030 with a C- or better or CSCI 3660 with a C- or better or instructor’s permission.

MATH 4030 MODERN ALGEBRA (3 credits)
Algebra is the study of mathematical manipulations that preserve something (like equality - when solving equations). The areas in which Algebra finds application are quite diverse, from Ancient Greek Geometry through to Modern Information Protection and Security (error correcting codes, data compression, and cryptography). This course begins with topics that should be familiar (such as ruler-and-compass constructions, and modular arithmetic) and builds upon this foundation through polynomial rings up to finite fields and basic group theory. (Cross-listed with MATH 8036).
Prerequisite(s)/Corequisite(s): MATH 2230 with a C- or better or MATH 2030 with a C- or better.
MATH 4050 LINEAR ALGEBRA (3 credits)
Linear algebra is extensively utilized in the mathematical modeling of many natural phenomena. Many scientific and engineering disciplines, such as data science, chemical engineering and biology, make extensive use of the theory and techniques commonly present in basic to advanced linear algebra courses. The goal of this course is to help students to grab a solid theoretical understanding of vectors, vector spaces, inner product spaces, linear transformations, eigenvalues, canonical forms, complex vectors, matrices, and orthogonality. By going through the materials in a mathematically rigorous way, students will develop deeper and more accurate intuitions of the basic concepts in linear algebra. Consequently, the applications of linear algebra will become much more transparent. (Cross-listed with MATH 8056).
Prerequisite(s)/Corequisite(s): MATH 2050 with a grade of C- or better; MATH 2030 or MATH 2230 or equivalent with a grade of C- or better; or permission

MATH 4110 ABSTRACT ALGEBRA I (3 credits)
An introduction to group theory. Various classes of groups are studied: symmetric groups, abelian, cyclic, and permutation groups. Basic tools are developed and used: subgroups, normal subgroups, cosets, the Lagrange theorem, group homomorphisms, quotient groups, direct products, and group actions on a set. The course culminates with the Sylow theorems in finite group theory. The theory is illustrated with examples from linear algebra, number theory, crystallography, and combinatorics. (Cross-listed with MATH 8116).
Prerequisite(s)/Corequisite(s): MATH 4050/MATH 8056 with a C- or better or MATH 4560/MATH 8566 with a C- or better or permission of instructor

MATH 4120 ABSTRACT ALGEBRA II (3 credits)
An introduction to ring and field theory. Various classes of commutative rings are considered including polynomial rings, and the Gaussian integers. Examples of fields include finite fields and various extensions of the rational numbers. Concepts such as that of an ideal, integral domain, characteristic and extension field are studied. The course culminates with the development and use of: subgroups, normal subgroups, cosets, the Lagrange theorem, group homomorphisms, quotient groups, direct products, and group actions on a set. The course culminates with the Sylow theorems in finite group theory. The theory is illustrated with examples from linear algebra, number theory, crystallography, and combinatorics. (Cross-listed with MATH 8116).
Prerequisite(s)/Corequisite(s): MATH 4110/MATH 8116 with a C- or better or permission of instructor

MATH 4150 GRAPH THEORY & APPLICATIONS (3 credits)
Introduction to graph theory. Representations of graphs and graph isomorphism. Trees as a special case of graphs. Connectivity, covering, matching and coloring in graphs. Directed graphs and planar graphs. Applications of graph theory in several fields such as networks, social sciences, VLSI, chemistry and parallel processing. (Cross-listed with MATH 8156, CSCI 4150, CSCI 8156).
Prerequisite(s)/Corequisite(s): CSCI 2030 with a C- or better, or MATH 2030 with a C- or better, or MATH 2230 with a C- or better, or permission of instructor.

MATH 4230 MATHEMATICAL ANALYSIS I (3 credits)
Provides a theoretical foundation for the concepts of elementary calculus. Topics include ordered fields and the real number system, basic properties of complex numbers, metric space topology, sequences and series in Rk, limits and continuity in a metric space, monotonic functions. (Cross-listed with MATH 8236).
Prerequisite(s)/Corequisite(s): MATH 3230/MATH 8235

MATH 4240 MATHEMATICAL ANALYSIS II (3 credits)
Provides a theoretical foundation for the concepts of classical Calculus (vector calculus included). Topics include sequences and series of functions, uniform convergence, power series, Fourier series, multivariable real differential and integral calculus, the Implicit Function Theorem, integration of different forms, and the important formulas, connecting those integrals, due to: Green, Gauss, Riemann, and Ostrogradski. (Cross-listed with MATH 8246).
Prerequisite(s)/Corequisite(s): MATH 4230/MATH 8236

MATH 4270 COMPLEX ANALYSIS (3 credits)
This course is an introduction to the theory of functions of a complex variable, a fundamental area of mathematics with multiple applications to science and engineering. Topics include the field of complex numbers, complex differentiation, the complex contour integral and Cauchy’s integral formula, Taylor expansions and analytic functions, conformal mapping and Riemann’s conformal equivalence theorem, residue theory and Laurent series, harmonic functions, and applications. (Cross-listed with MATH 8276).
Prerequisite(s)/Corequisite(s): MATH 3230/MATH 8235 or permission of the instructor.

MATH 4300 DETERMINISTIC OPERATIONS RESEARCH MODELS (3 credits)
This is a survey course of deterministic operations research models and algorithms. Topics include linear programming, network programming, and integer programming. (Cross-listed with CSCI 4300, CSCI 8306, MATH 8306).
Prerequisite(s)/Corequisite(s): MATH 2050 with a C- or better or permission of instructor

MATH 4310 PROBABILISTIC OPERATIONS RESEARCH MODELS (3 credits)
This is a survey course of probabilistic operations research models and algorithms. Topics include Markov chains, queueing theory, inventory models, forecasting, and simulation. (Cross-listed with CSCI 4310, CSCI 8316, MATH 8316).
Prerequisite(s)/Corequisite(s): MATH 2050 and either MATH 4740 or MATH 8746 or STAT 3800 or STAT 8805 all with a C- or better or permission of instructor.

MATH 4320 COMPUTATIONAL OPERATIONS RESEARCH (3 credits)
Survey of computational methods used in the solution of operations research problems. Topics include scripting to guide optimization software, metaheuristics for optimization, and basic machine learning algorithms. (Cross-listed with MATH 8326).
Prerequisite(s)/Corequisite(s): MATH 3200 and MATH 4300 each with a grade of C- or better or permission of instructor.

MATH 4330 INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS (3 credits)
This course introduces the basic methods of PDEs guided by applications in physics and engineering. The main topics to be covered include The Linear First order PDEs, Transport equations, Characteristics, Classification of PDEs, Separation of variables, Heat conduction, vibrating membranes, boundary value problems, Maximum principle, Sturm-Liouville problems, Fourier series, Fourier integrals, Harmonic functions, Legendre polynomials, Distributions, Green's functions. (Cross-listed with MATH 8336).
Prerequisite(s)/Corequisite(s): MATH 1970 with a C- or better and MATH 2350 with a C- or better, or permission of instructor; MATH 2050 recommended, not required.

MATH 4350 ORDINARY DIFFERENTIAL EQUATIONS (3 credits)
This course covers the theory of initial- boundary- and eigenvalue problems, existence theorems, real and complex linear systems of differential equations, and stability theory. There will be a strong emphasis on methods for finding solutions of initial and boundary value problems and analyzing properties of these solutions for various ordinary differential equations. (Cross-listed with MATH 8356).
Prerequisite(s)/Corequisite(s): MATH 1970 with a C- or better, MATH 2050 with a C- or better, and MATH 2350 with a C-, or better or instructor’s permission.
MATH 4400 THE FINITE ELEMENT METHOD (3 credits)
Prerequisite(s)/Corequisite(s): MATH 1970, MATH 2050 and MATH 2350 all with a C- or better or instructor permission. MATH 3300/ MATH 8305 and MATH 4330/MATH 8336 recommended. Students should be able to use a programming language (ie MATLAB) to complete computational assignments

MATH 4450 INTRODUCTION TO MACHINE LEARNING AND DATA MINING (3 credits)
This is an introduction to machine learning and data mining which covers the following topics with an emphasis on mathematical and statistical analysis: linear and nonlinear regression models, model selection and regularization methods, resampling methods, classification models, tree-based models, and unsupervised learning topics. If time allows, text mining and deep learning will also be introduced in the course. Statistical software will be used. (Cross-listed with MATH 8456, STAT 4450, STAT 8456)
Prerequisite(s)/Corequisite(s): MATH 4740/4746 with a C- or better or STAT 3800/8805 with a C- or better or permission of instructor.

MATH 4560 NUMBER THEORY & CRYPTOGRAPHY (3 credits)
An overview of one of the many beautiful areas of mathematics and its modern application to secure communication. The course is ideal for any student who wants a taste of mathematics outside of, or in addition to, the calculus sequence. Topics to be covered include: prime numbers, congruences, perfect numbers, primitive roots, quadratic reciprocity, sums of squares, and Diophantine equations. Applications include error-correcting codes, symmetric and public key cryptography, secret sharing, and zero knowledge proofs. (Cross-listed with MATH 8566, CSCI 4560, CSCI 8566).
Prerequisite(s)/Corequisite(s): MATH 2230 with a C- or better or MATH 2030 with a C- or better or CSCI 2030 with a C- or better or permission of instructor.

MATH 4610 INTRODUCTION TO TOPOLOGY (3 credits)
This is a proof-oriented course presenting the foundations of topology. Metric spaces and general topological spaces are introduced. The course explores the properties of connectedness, compactness and completeness, and operations of Tychonoff product and hyperspace. (Cross-listed with MATH 8616).
Prerequisite(s)/Corequisite(s): MATH 3230 with a C- or better or permission of instructor.

MATH 4620 ITERATED FUNCTION SYSTEMS AND FRACTALS (3 credits)
This is a proof-oriented course presenting the foundations of fractal geometry. It introduces students to the beauty, magic, and applications of fractals and iterated function systems, with emphasis on the mathematics behind it all. Topics range from contractions on hyperspaces and their fixed points to fractal dimensions to Julia and Mandelbrot sets. (Cross-listed with MATH 8626).
Prerequisite(s)/Corequisite(s): MATH 4610 with a C- or better or permission of instructor.

MATH 4660 AUTOMATA, COMPUTABILITY, AND FORMAL LANGUAGES (3 credits)
This course presents a sampling of several important areas of theoretical computer science. Definition of formal models of computation and important properties of such models, including finite automata and Turing machines. Definition and important properties of formal grammars and their languages. Introduction to the formal theories of computability and complexity. (Cross-listed with CSCI 4660, CSCI 8666, MATH 8666)
Prerequisite(s)/Corequisite(s): MATH 2030. Recommended: CSCI 3320/ CSCI 8325.

MATH 4740 INTRODUCTION TO PROBABILITY AND STATISTICS I (3 credits)
A mathematical introduction to probability theory including the properties of probability; probability distributions; expected values and moments; specific discrete and continuous distributions; and transformations of random variables. (Cross-listed with MATH 8746).
Prerequisite(s)/Corequisite(s): MATH 1970 and either MATH 2230 or MATH 2030 or permission of instructor.

MATH 4750 INTRODUCTION TO PROBABILITY AND STATISTICS II (3 credits)
Theory and methods of statistical inference including sampling distributions, estimators, estimation, and statistical hypotheses. (Cross-listed with MATH 8756).
Prerequisite(s)/Corequisite(s): MATH 4740/MATH 8746

MATH 4760 TOPICS IN APPLIED MATHEMATICS (3 credits)
Selection of such topics such as dynamical systems and chaos, Boolean networks, modeling of discrete or continuous systems, matrix theory, difference equations, information theory, discrete events simulation and other approved by Upper Curriculum Committee. (Cross-listed with MATH 8766).
Prerequisite(s)/Corequisite(s): MATH 3100/CSCI 3100

MATH 4900 INDEPENDENT STUDIES (1-3 credits)
A variable credit course for the junior or senior who will benefit from independent reading assignments and research-type problems. Independent study makes available courses of study not available in scheduled course offerings. The student wishing to take an independent study course should find a faculty member willing to supervise the course and then submit, for approval, a written proposal (including amount of credit) to the MATH/ STAT Undergraduate Curriculum Committee at least one week prior to registration.
Prerequisite(s)/Corequisite(s): Junior and permission of the chair

MATH 4970 SEMINAR IN APPLIED MATHEMATICS (3 credits)
A seminar in Applied Mathematics, where the students would read and present research in applied math and write their exposition of those topics.
Prerequisite(s)/Corequisite(s): MATH 3100/CSCI 3100

MATH 4980 SEMINAR (1-3 credits)
A seminar in mathematics. This course introduces students to an important form of mathematical activity and culture, where a specialized mathematical subject matter (not covered in typical courses) is studied and discussed in a collaborative setting. The course may be repeated for different topics up to a maximum of six credit hours. The specific topics will vary, depending upon when the course is offered. One example of a seminar topic is Current Trends in Set Theory of the Reals.
Prerequisite(s)/Corequisite(s): Permission of instructor.