the discipline to the natural and social sciences as well as to
discipline; the nature of the discipline; and applications of
clude historical, philosophical, and cultural origins of the
verse trigonometric will be the primary focus. Labs de-
rational, exponential, logarithmic, trigonometric, and in-
gebraic and transcendental functions such as polynomial,
cal, symbolic, graphical, and descriptive points of view. Al-
complete a full-length screenplay for a feature film or "movie-
of-the-week." Whether novice or advanced, students are
expected to develop and improve their skills. Emphasis is
given to the role of Christian faith and values as they relate
to script content. The course is taught by a working, cred-
ited Christian screenwriter and screenwriting professor at
UCLA. Course includes a professional pitch session to
 producers and extensive notes on the final screenplay.

LAFS 382 Professional Screenwriting (3)
This is a course in contemporary screenwriting, including
an understanding of dramatic structure, character and dia-
logue development, and the writing process. Students com-
plete a full-length screenplay for a feature film or "movie-
of-the-week." Whether novice or advanced, students are
expected to develop and improve their skills. Emphasis is
given to the role of Christian faith and values as they relate
to script content. The course is taught by a working, cred-
ited Christian screenwriter and screenwriting professor at
UCLA. Course includes a professional pitch session to
 producers and extensive notes on the final screenplay.

LAFS 392 Independent Study (3)
This course may be set up by special request and arrange-
ment. In order to be considered, students may submit a
portfolio and a project proposal. Students approved
projects will be appointed a mentor who is a professional
in the Hollywood industry to supervise the project. Pro-
jects could include further development of a portfolio or
reel, critical research, or a senior thesis project. Note: This
option is not guaranteed and is intended for students with
experience in a specific area of cinema or those needing to
complete a senior project for graduation. The number of
independent studies offered each semester is determined
by LAFSC faculty, the availability of a suitable mentor, and
approval from the College’s communication arts depart-
ment.

MATH MATHEMATICS

MATH 101 Precalculus (4)
Fall
This course examines functions and relations from numeri-
cal, symbolic, graphical, and descriptive points of view. Al-
gebraic and transcendental functions such as polynomial,
rational, exponential, logarithmic, trigonometric, and in-
verse trigonometric will be the primary focus. Labs de-
signed to reinforce prior material through collaborative
work and introduce applications of functions will be inter-
spersed throughout the course. Supplementary topics in-
clude conic sections, polar coordinates, and complex num-
bers. Does NOT fulfill the mathematics Foundations re-
quirement. Prerequisite: three years of college preparatory
high school mathematics.

MATH 103 Mathematics within a Liberal Arts
Tradition (3)
Fall, Spring
This course examines the discipline of mathematics from a
variety of interrelated perspectives. These perspectives in-
clude historical, philosophical, and cultural origins of the
discipline; the nature of the discipline; and applications of
the discipline to the natural and social sciences as well as to
everyday life. Fulfills the mathematics Foundations require-
ment. Prerequisite: three years of college preparatory high
school mathematics.

MATH 107 College Algebra (3)
Fall
This course examines families of elementary mathematical
functions (polynomial, rational, exponential, logarithmic),
features of general functions (domain, range, graph), and
combinations of functions (sums, differences, products,
quotients, inverse, composition). Additional topics include
systems of linear equations including: matrix methods;
conic sections; equations and inequalities; and applications
of functions. Does NOT fulfill the mathematics Foundations
requirement. Prerequisite: Two years of high school
algebra or equivalent.

MATH 108 Inferential Statistics for Elementary
School Teachers (2)
Spring
This course covers several topics from inferential statistics:
sampling distributions, confidence intervals, and hypothe-
sis tests for sample means and proportions; linear correla-
tion and regression; and using technology to fit data sets
with appropriate regresional models. Does not fulfill the
mathematics Foundations requirement. Prerequisite:
MATH 107 or equivalent.

MATH 109 Math Concepts Teachers I (3)
Fall
This course is a study of sets, logic, proof, systems of nu-
eration, mathematical systems, development of the num-
ber system, and problem-solving applications. Fulfills the
mathematics Foundations requirement. Prerequisites:
Three years of college preparatory high school mathemat-
ics and major or minor in elementary or special education
(or permission of instructor).

MATH 110 Math Concepts Teachers II (3)
Spring
This course examines topics in algebra, geometry, proba-
bility, statistics, calculators, computers, and problem-solv-
ing applications. Prerequisite: three years of college prepar-
atory high school mathematics. Fulfills the mathematics
Foundations requirement. Prerequisites:
Three years of college preparatory high school mathematics. Prerequisites:
Three years of college preparatory high school mathemat-
ics and major or minor in elementary or special education
(or permission of instructor).

MATH 111 Analytic Geometry and Calculus I (4)
Fall
This course examines functions, limits, derivatives, graphs,
applications of the derivative, and the integral. Fulfills the
mathematics Foundations requirement. Prerequisite: four
years of college preparatory high school mathematics or
MATH 101.
MATH 112 Analytic Geometry and Calculus II (4)
Spring
This course examines applications of integration; logarithmic, exponential, trigonometric, and hyperbolic functions; techniques of integration; and infinite sequences and series. Fulfills the mathematics Foundations requirement. Prerequisite: MATH 111 with a grade of C- or better.

MATH 141 Finite Mathematics (3)
Fall, Spring
Finite Mathematics is a subject which blends application with theory in (primarily) a discrete setting. Topics include financial mathematics models, linear system solution processes and utilization of matrices for applications in economics (Leontief models) and optimization (linear programming); enumeration techniques for applications in probability and Markov Chains; logic and recursion for applications in graph theory. Fulfills the mathematics Foundations requirement. Prerequisite: Three years of high school mathematics including two years of algebra.

MATH 151 Statistics (3)
Fall, Spring
This course examines measures of central tendency and variability, graphic representation, binomial and normal distributions, sampling, estimation, hypothesis testing, regression, and correlation. This course is a non-calculus treatment primarily for students in the exact sciences or in business. Fulfills the mathematics Foundations requirement. Prerequisites: Three years of high school mathematics including two years of algebra; MATH 111 or 141 recommended for biology and business majors.

MATH 210 Discrete Structures (3)
Fall
This course covers set theory, logic, algebraic structures, relations and functions, combinatorics, graphs and trees, Boolean algebras, and algorithms. Fulfills the mathematics Foundations requirement. Prerequisite: MATH 111 or MATH 141 with a grade of C- or better or permission of instructor.

MATH 211 Analytic Geometry and Calculus III (4)
Fall
This course covers conic sections, polar coordinates, vectors in two and three dimensions, partial derivatives, multiple integrals, and applications. Prerequisite: MATH 112.

MATH 288 Elementary Math Methods (3)
Fall
In this course, students will study and implement a variety of pedagogical methods for teaching and learning of mathematics. Students will analyze sample mathematical learning activities and create their own learning tasks to satisfy criteria including mathematical significance, problem-solving, communication, and connections within mathematics and among other disciplines. Issues including the role of technology, equity and diversity, and assessment will be addressed. Note: Due to overlap in course content, credit cannot be earned for both MATH 288 and MATH 289. Prerequisites: Math 109 and Math 110, successful completion of a test of basic skills, and at least one education criteria including mathematical significance, problem-solving, content and organization, curriculum trends, teaching aids, evaluating, and professional organizations. Note: Due to overlap in course content, credit cannot be earned for both MATH 290 and MATH 380. Prerequisites: admission to the teacher education program and at least 12 hours in mathematics.

MATH 290 Middle Grades Math Methods II (3)
Fall, Even
This course deals with methods and materials of teaching in grades 5-8. Students study topics such as instructional strategies, objectives and planning, individual difference, problem-solving, content and organization, curriculum trends, teaching aids, evaluating, and professional organizations. Note: Due to overlap in course content, credit cannot be earned for both MATH 290 and MATH 380. Prerequisites: admission to the teacher education program and at least 12 hours in mathematics.

MATH 301 Linear Algebra (3)
Spring
This course covers vector spaces, theory of matrices, linear transformations, determinants, and quadratic forms. Prerequisite: MATH 210.

MATH 302 Abstract Algebra (3)
Fall, Odd
This course is a study of mathematical structures such as groups, rings, integral domains, and fields. Factorization and congruence theories for integers and polynomials also are examined. Prerequisite: MATH 210.

MATH 310 Differential Equations (3)
Spring, Even
This course covers ordinary differential equations of first and second order, linear equations, operators, transforms, nonlinear equations, power series solutions, numerical methods, and applications. Prerequisite: MATH 211.

MATH 311 Real Analysis (3)
Spring, Odd
This course examines the Foundations of real number system, sequences and series, convergence, axiomatic development of limits, continuity, derivatives, integrals, line, and surface integrals. Prerequisites: MATH 210 and 211.
MATH 321 Geometry (3)
Fall, Even
This course covers geometric transformations, advanced Euclidian geometry, non-Euclidian geometries, projective geometry, and Foundations of geometry. Prerequisite: MATH 210.

MATH 341 Numerical Analysis (3)
Fall, Odd
This course examines solutions of non-linear equations, systems of equations, and differential equations. Other topics include interpolation, approximation, and numerical integration. Prerequisites: MATH 210 and CPSC 112.

MATH 351 Probability and Statistics (3)
Spring
This course examines discrete and continuous probability distributions, mathematical expectations, moment generating functions, multivariate distributions, estimation, hypothesis testing, regression, and correlation. Prerequisites: MATH 112; MATH 211 recommended.

MATH 370 Topics in Advanced Mathematics (3)
Varies
This course focuses on an advanced topic in mathematics determined by student demand. Possible topics include number theory, complex variables, measure theory, point-set topology, and second courses in abstract algebra, real analysis, and probability and statistics. Prerequisite: junior or senior standing in the mathematics program.

MATH 380 Secondary Mathematics Methods (3)
Fall, Even
This course deals with methods and materials of teaching mathematics in grades 9-12. Students study topics such as instructional strategies, objectives and planning, individual difference, problem solving, content and organization, curriculum trends, teaching aids, evaluating, and professional organizations. Note: Due to overlap in course content, credit cannot be earned for both MATH 290 and MATH 380. Prerequisites: admission to the teacher education program and at least 12 hours in mathematics.

MATH 381 Methods & Strategies for Teaching Probability & Statistics (1)
Varies
This course focuses on issues of pedagogy and technology used in the teaching and learning of probability and statistics. Students will be expected to design a unit plan, daily lessons, and projects that address statistical concepts and use appropriate technological tools and a variety of classroom learning environments. Prerequisites: completion of or concurrent enrollment in MATH 151 or 351. Completion of and/or concurrent enrollment in EDUC 380 and/or Mathematics 380 is recommended.

MATH 399 Independent Study (1)
Fall, Spring
Topics are selected from students’ major interests. Prerequisite: permission of department.

MATH 400 Field Education (2)
Fall, Spring

MATH 401 Senior Seminar (1)
Fall
This seminar provides an opportunity for students to reflect on the concepts, contextual, foundational, and worldview issues, and applications studied in past coursework. The seminar emphasizes how these issues will impact their lives beyond the College. Presentations, both in-class and off-campus, attended by students and made by students, are a key component of the course. Prerequisites: senior class standing and prior completion of at least six required courses in the major (excluding cognate course requirements).

MUSC 111 Introduction to Music Literature (3)
Fall
This course introduces the basic materials of music and an overview of the most important forms, styles, and composers of Western music, with an emphasis on intelligent listening. This course is a prerequisite for MUSC 311, 312, and 313. Fulfills the fine arts requirement.

MUSC 199 Guitar Class (1)
Fall, Odd
Group instruction on guitar for beginners for one hour of credit.

MUSC 200 Class Piano (1)
Fall, Even
An introduction to basic keyboard facility in a group setting. This course is designed to help students to learn to play major and minor scales and basic harmonic progressions in major and minor keys. Required of all music majors; can be fulfilled by passing a keyboard proficiency test.

MUSC 201 Music Theory I (3)
Varies
This course is an introduction to the structures and fundamental materials of music, including intervals, scales, keys, and chord structures. Emphasis is placed on the study and analysis of music of the 17th-19th centuries. Prerequisite: MUSC 111 or permission of instructor.

MUSC 203 Music Theory II (3)
Varies
This course continues the study of the structures and materials of music, including harmonic analysis, figured bass, non-harmonic tones, and cadences. Prerequisite: MUSC 201.

MUSC 204 Music Theory III (3)
Varies
This course is a study of music theory focusing on eighteenth-century counterpoint, chromatic harmony, and