Please note the following:
1. These course listings are subject to change and cancellation without notice.
2. Students are permitted to enroll in a maximum of 7 units.
3. Students must meet all prerequisites listed in order to enroll in a course.
4. Session C includes both 5-week and 8-week courses. Students may enroll in two 8-week courses or one 5-week course and one 8-week course. If students wish to enroll in two 5-week courses they must attend Session A.
5. If a course is full, it will be indicated in the course description.

NON-CREDIT WORKSHOP

PERSONAL NARRATIVE: WRITING THE COLLEGE ADMISSIONS ESSAY
This workshop-based course explores and develops different ways of representing oneself in the transition from high school to college. First and foremost, the course will address strategies for writing personal narratives, specifically personal statements in response to the 2018-2019 Common Application prompts. Students will become familiar with an academic-oriented reader, will develop useful revision strategies, and will practice structuring their essays within given word-limits. This is a noncredit workshop, so no grades will be issued. Limited space is available, and attendance at all four sessions is required. Be sure to indicate your preferred workshop option time on your registration form. Enrolling in this workshop does not count towards your maximum 7 units.

Prerequisite: None

Session A
U00 100 (0 units)
Four required sessions (all Saturdays): June 16, June 23, June 30, July 7
Option 1: 10:00a-12:00p
Option 2: 12:00p-2:00p cancelled
Option 3: 3:00p-5:00p

AFRICAN AND AFRICAN AMERICAN STUDIES

IMAGINING AND CREATING AFRICA: YOUTH, CULTURE, AND CHANGE
The goal of this course is to provide a glimpse into how youth reshape African society. Whether in North Africa with the Arab Spring, in West Africa with university strikes, or in East Africa through a linguistic full bloom, youth have been shaping social responses to societies for a long period. In this course, we will study social structures, including churches, NGOs, developmental agencies as well as learn about examples of Muslim youth movements, and the global civil society. The course will also explore how youth impact cultural movements in Africa and how they influence the world. In particular, we will examine Hip-Hop movements, sports, and global youth culture developments that center on fashion, dress, dance, and new technologies. By the end of the course, students will have enriched ideas about youth in Africa and ways to provide more realistic comparisons to their counterparts in the United States.

Prerequisite: None

Session C
L90 178 (3 units)
MTuWThF 9:00a-10:45a
5-week course

ANTHROPOLOGY

INTRODUCTION TO HUMAN EVOLUTION
This course is a survey of the fossil evidence for human evolution. The course includes discussion of the genetics of human variation and evolution, the study of living nonhuman primates, and the fossil record and its interpretation. An evolutionary perspective is used in an attempt to understand modern humans from the naturalistic point of view. This course may include off-campus field trips.

Prerequisite: None

Session C
L48 150A (3 units)
MTuWThF 9:00a-10:45a
5-week course
INTRODUCTION TO CULTURAL ANTHROPOLOGY
This course covers the basic concepts and theoretical principles of sociocultural anthropology. Course material is presented from Asia, Africa, Melanesia, Latin America, and North America. This course may include off-campus field trips.

Prerequisite: None

Session C
L48 160B (3 units)
MTuWThF 1:00p-2:45p
5-week course

ART

DRAWING
This course teaches basic drawing skills and techniques by drawing from observation. Through sighting and measuring three-dimensional forms and creating the illusion of volume, space, and light on two-dimensional surfaces, students will develop visual language skills. We will work with a variety of black-and-white media to create compositions. Historic references will broaden the student's understanding of drawing as a visual language.

Prerequisite: None

Session C
U79 101 (3 units)
MW 5:30p-8:15p
8-week course

WATERCOLOR
This course teaches students the fundamentals of the watercolor through the use of a small portable sketchbook and pan watercolor set. The class is designed for all skill levels, and no previous experience is necessary. The goal is to explore properties of color and value by creating a sketchbook of studies that explore technical processes of watercolor, such as washes, glazes, and resists, through a variety of subject matter such as still life, land/urbanscapes, self-portrait, and figure studies. We also investigate historical research and artistic vocabulary through class critiques and written papers.

Prerequisite: None

Session C
U79 124 (3 units)
MW 6:00p-8:45p
8-week course

BIOLOGY

INTRODUCTION TO PROBLEM-BASED LEARNING IN BIOLOGY
Have you ever wondered how doctors and scientists diagnose and discover cures to modern human afflictions? In this course, students will be given a general topic and break up into small groups to research questions related to that topic. We will all report back to the group each week with what we've found, and provide each other with interesting facts about our topic, as well as hints for conducting inquiry-based research. The instructor will guide students on how to conduct in-depth research on problems of current biological importance using a variety of web-based search engines and library tools, with a strong emphasis on learning how to read and interpret primary research articles. Weekly topics from previous years have included psychological disorders, genetics of sleep regulation, reproductive therapies, alternative medicine, and human evolution. Students should have broad interests and background in general biology and chemistry and should be curious, exploratory, interactive, and willing to try an active, nontraditional educational experience. There are no exams, so grades will be based on class participation, weekly group presentations, written outlines, and a final iSearch paper on a topic of their choice.

Prerequisite: high school honors or AP biology

Session C
L41 112 (3 units)
MWF 9:00a-12:00p
5-week course

BIOLOGY OF THE BRAIN
This course is for students who wish to learn about the biology of the nervous system, and the scientific process of understanding how it works. Biology of the Brain will include lecture, discussion, and analysis of cutting edge research, so active participation will be important. We will discuss the gross anatomy and cellular composition of the brain. We will discuss how the brain is organized to process sensory information such as vision and to generate motor activity. We will analyze how the brain develops, changes with experience to create memories, and recovers from injury. Along the way, we will discuss nervous system dysfunction in a range of contexts such as Addiction, Alzheimer's Disease, and Parkinson's Disease. This course counts as a Natural Science and Mathematics (NSM) distribution requirement.

Prerequisite: high school honors or AP biology

Session C
L43 120 (3 units)
MTuWThF 3:00p-4:45p
5-week course
GENERAL BIOLOGY I
First part of a two-semester rigorous introduction to basic biological principles and concepts. This course covers the molecular and cellular basis of life, bioenergetics, signal transduction, DNA and protein synthesis, and the function of whole organisms (physiology). Laboratories include traditional wet labs as well as inquiry-based, on-line labs.
Prerequisite: high school biology (preferably honors level) and AP chemistry

Session C
U29 101 (4 units)
MWF 6:00p-8:30p and TuTh 5:00p-9:00p
5-week course

INTRODUCTION TO ANATOMY AND PHYSIOLOGY I (Lecture only)
This is the first of a two-semester sequence that examines all major organ systems in the human/mammalian body. The emphasis is on understanding normal function and processes at the gross, cellular, and molecular levels. The course also addresses pathology and disease. Course covers histology, bone, muscle, and nervous systems, including sensory function and the special senses.
Prerequisite: None

Session C
U29 3221 (3 units)
TuWTh 9:00a-12:00p
5-week course

INTRODUCTION TO ANATOMY AND PHYSIOLOGY I (Lecture and lab)
This is the first of a two-semester sequence that examines all major organ systems in the human/mammalian body. The emphasis is on understanding normal function and processes at the gross, cellular, and molecular levels. The course also addresses pathology and disease. Course covers histology, bone, muscle, and nervous systems, including sensory function and the special senses.
Prerequisite: None

Session C
U29 322 (5 units)
TuWTh 9:00a-12:00p and TuWTh 5:30p-9:20p
5-week course

INTRODUCTION TO ENVIRONMENTAL STUDIES
This course examines the physical, chemical, and biological components of the environment. We will focus on the ecological principles that are the basis of environmental science. We will then explore how environmental studies incorporate concepts from politics, social sciences, economics, ethics, and philosophy. A central theme of the course is the effect of human societies on the environment, and how individual human and societal behavior can be modified to minimize the deleterious effects on the environment.
Prerequisite: None

Session C
U29 209 (3 units)
ONLINE
8-week course

CHEMISTRY

GENERAL CHEMISTRY I
Prerequisite: AP chemistry, honors or AP physics, and two years of high school mathematics (AP Calculus AB preferred)

Session C
L07 111A (3 units)
MTuWThF 9:00a-10:45a
5-week course

GENERAL CHEMISTRY LABORATORY I
This course provides an introduction to basic laboratory techniques, the experimental method, and the presentation of scientific data, as well as direct experience with chemical principles and the properties and reactions of substances. The topics and experiments in this course complement the material covered in the Chem 111A lecture course.
Prerequisite: AP chemistry, honors or AP physics, and two years of high school mathematics (AP Calculus AB preferred)

Session C
L07 151 (2 units)
TuTh 1:00-2:45p and MWF 1:00-5:00p
5-week course
CHINESE

BEGINNING CHINESE: ALLEX PROGRAM
This course is an introduction to spoken Mandarin, the language with the largest number of native speakers in the world. Course objectives are to master Mandarin pronunciation, including the recognition and writing of Pinyin romanization, and to develop the ability to participate in simple, practical conversations on everyday topics. The relationship between Chinese language and culture and the sociolinguistically appropriate use of language will be stressed throughout. Typical class format will include performance of memorized basic conversations, drills, questions and discussion, and various types of communicative exercises. At the end of the course you will be expected to perform all four skills-speaking, listening, reading, and writing—at a basic level of proficiency.
Prerequisite: This course is appropriate for students with no Chinese background. Students who speak Chinese at home will find this course too easy.

Session C
U38 199 (4 units)
MTuWThF 9:00a-10:00a and 11:00a-12:00p
7-week course (course begins on June 18)

COMMUNICATIONS

INTRODUCTION TO PUBLIC SPEAKING
Public speaking is a skill essential for success in most professional careers. The focus of this class is to develop the basic ability and confidence necessary to speak effectively in public. The presentation skills we will work on are proper diction, projection, breath control, effective use of the voice and body, writing to be heard not read, oral critiques, and informative and persuasive speaking. Critical listening and group work will also be emphasized.
Prerequisite: None

Session C
U48 2111 (3 units)
TuTh 6:00p-8:45p
8-week course

MARKETING COMMUNICATIONS
An introduction to advertising, public relations, and promotions and how they influence communications, journalism, and mass media. Students explore each of the “three sisters” of marketing and how they are used to build integrated marketing programs. Specific tools, including special events, direct mail, sponsorship, and press materials, will be discussed. In addition, the class will examine current and memorable marketing campaigns, view new technologies, and learn techniques and trends from professionals in the marketing field.
Prerequisite: None

Session C
U48 260 (3 units)
MW 6:00p-8:45p
8-week course

ECONOMICS

INTRODUCTION TO MICROECONOMICS
Determination of prices; distribution of national income; theory of production. For a thorough introduction to economics L11 1021 should also be taken, but is not required.
Prerequisite: None

Session C
L11 1011 (3 units)
MTuWThF 9:00a-10:45a
5-week course

INTRODUCTION TO MACROECONOMICS
Business fluctuations: inflation, recession; monetary and fiscal policy; economic development. For a thorough introduction to economics L11 1011 should also be taken, but is not required.
Prerequisite: None

Session C
L11 1021 (3 units)
MTuWThF 1:00p-2:45p
5-week course

ENGLISH COMPOSITION

CRITICAL AND RESEARCH WRITING
This course teaches students to engage critically with scholarship, construct convincing arguments, and write persuasive research papers. We will study how other writers achieve these goals, then use a proven model of researched writing to write an argument and paper about a text of your own choosing that includes accurate use of primary and secondary sources. Concentrating on a single research project throughout the session, attention will be given to revision and organization, library research strategies, academic citation conventions, and electronic search engines and sources.
Prerequisite: AP English Comp
ENGLISH LITERATURE

INTRODUCTION TO READING AND WRITING ABOUT LITERATURE
Intro to Reading and Writing about Literature is a discussion based, writing-intensive course. It focuses on analytical reading skills and on the principles of effective writing. Through weekly writing assignments and revision, students learn the importance of critical thinking and questioning that are required for the development of ideas and good, clear writing.

**Prerequisite:** None

TOPICS IN ENGLISH AND AMERICAN LITERATURE: BANNED BOOKS: FROM THE GIVER TO THE LORD OF THE FLIES
In this course we will read a number of Young Adult novels that have been banned and examine what leads to the banning of a book. Why are YA novels particular targets of censorship, and why does society attempt to sanitize narratives about adolescence? The novels we will cover, by Toni Morrison, Stephen Chbosky, William Golding, and Lois Lowry, among others, have been banned in the United States on political, religious, sexual, or social grounds. We will gain insight into the controversies these novels started and also consider the themes and questions raised by the texts and their moral implications. In written assignments and class discussion, we will explore what, if anything, these novels have in common and what they may contribute to the study of literature.

**Prerequisite:** None

FRENCH

BEGINNING FRENCH I: AN AUDIOVISUAL APPROACH
This eight-week intensive is a fully online course for all students who are new to French or who need to review the basics. Perfect for those who wish to prepare for a trip to Paris, or to get a head start on their college language and culture requirements. Using the new online program developed by Vista Higher Learning, Portails, this course provides authentic materials integrated into a convenient and user-friendly format. The course keeps a sense of a close-knit classroom community through its chat-rooms and discussion boards, while students are able to work according to their schedules.

**Prerequisite:** None

GEOGRAPHIC INFORMATION SYSTEMS

INTRODUCTION TO GIS
This course introduces students to the fundamental principles and applications of geographic information systems (GIS) and their underlying geospatial science. Topics include spatial data types, map coordinate systems and projections, basic spatial data analysis, and processing and visualizing data in GIS. Lectures are supplemented with lab sessions to develop problem-solving skills using ESRI ArcGIS software (including ArcView/ArcInfo and its Spatial Analyst extension).

**Prerequisite:** None

INNOVATION

DESIGN THINKING: HUMAN-CENTERED APPROACHES TO MAKING THE WORLD
This course provides an overview of approaches to design thinking: a process of identifying, creating, and implementing solutions. Through an experiential approach, students learn methods for understanding users' needs, synthesizing complex information, identifying directives for design, generating ideas, prototyping, and communicating solutions. Methodologies will reflect multiple areas, including design, engineering, business, and anthropology. The class operates collaboratively tackling a locally relevant problem, such as active transportation or waste management. Students also explore the role of this process in business, organizations promoting social change, and education through readings, case studies, lectures, guest speakers, discussion, and written exercises. No previous experience in design is required.
**Prerequisite:** None

Session C  
U44 290 (3 units)  
MTuWThF 3:00p-4:45p  
5-week course

**JAPANESE**

**BEGINNING JAPANESE: ALLEX PROGRAM**

This course is an intensive, introductory course in Japanese language, designed for students with no previous background in Japanese. This course builds a solid foundation in Japanese with a focus on oral interaction. We will also work on the Japanese writing system and learn to read simple texts written in Japanese. The majority of the class time will be spent on students' performance in Japanese in cultural contexts. Students are expected to spend at least 90 minutes preparing for in-class performance. At the end of the course you will be expected to perform all four skills-speaking, listening, reading, and writing-at a basic level of proficiency.  
**Prerequisite:** This course is appropriate for students with no Japanese background. Students who speak Japanese at home will find this course too easy.

Session C  
U36 199 (4 units)  
MTuWThF 9:00a-10:00a and 11:00a-12:00p  
7-week course (course begins on June 18)

**LATIN**

**INTENSIVE INTRODUCTORY LATIN: FROM GRAMMAR BASICS TO TRANSLATION**

An intensive introduction to Latin, especially suitable for graduate students in the humanities, social, and natural sciences, but open to undergraduates who seek permission from the Department of Classics. Thorough introduction to grammar, vocabulary, and syntax will be supplemented by translation practice. The last part of the course will focus on translation of substantial selections from Latin authors including Vergil and Ovid. Students who complete the summer course should subsequently be able to enroll in a 300-level Latin course.  
**Prerequisite:** None

Session C  
L10 208 (6 units)  
MTuWThF 9:00a-12:00p  
8-week course

**LINGUISTICS**

**INTRODUCTION TO LINGUISTICS**

Language is one of the fundamental capacities of the human species, and there are many interesting and meaningful ways in which it can be studied. This course explores the core components of linguistic theory: speech sounds (phonetics and phonology), word formation (morphology), sentence structure (syntax), and meaning (semantics). It also provides an overview of interdisciplinary ideas and research on how language is acquired and processed, its relation to the mind-brain and to society, and the question of whether the essential properties of language can be replicated outside the human mind (specifically, in chimpanzees or computer programs).  
**Prerequisite:** None

Session C  
L44 170D (3 units)  
MTuWThF 1:00p-2:45p  
5-week course

**MATHEMATICS**

**INTRODUCTION TO STATISTICS**

Data collection: sampling and designing experiments. Data organization: data, tables, graphs, frequency distributions, numerical summarization of data, and consumer price index. Inference: elementary probability and hypothesis testing.  
**Prerequisite:** None

Session C  
L24 1011 (3 units)  
MTuWThF 1:00p-2:45p  
5-week course

**CALCULUS I**

The first course in the calculus sequence. Topics include differential and integral calculus for algebraic and trigonometric functions.  
**Prerequisite:** high school algebra and trigonometry

Session C  
L24 131 (3 units)  
MTuWTh 9:00a-10:30a  
8-week course

6/1/18 9:13 AM
CALCULUS II
The second course in the calculus sequence. Topics include differential and integral calculus for the transcendental functions, advanced methods of integration, Taylor’s theorem, and infinite series.

Prerequisite: AP Calculus AB with a grade of B or better

Session C
L24 132 (3 units)
MTuWTh 9:00a-10:30a
8-week course

CALCULUS III
Multivariable calculus. Topics include differential and integral calculus of functions of two or three variables, and a brief introduction to differential equations.

Prerequisite: AP Calculus BC with a B or better and score of 4 or 5 on AP exam

Session C
L24 233 (3 units)
MTuWTh 3:00p-4:30p
8-week course

MATRIX ALGEBRA
Theory of matrices and vector spaces from a concrete, computational point of view. Topics: row reduction (pivot method), rank and dimension, determinants, eigenvalues and eigenvectors, and diagonalization of symmetrical matrices.

Prerequisite: AP Calculus BC with a B or better

Session C
L24 309 (3 units)
MTuWThF 9:00a-10:45a
5-week course

APPLIED STATISTICS
This is a first course in statistics with examples and applications from a variety of disciplines, and emphasis on the social, behavioral, and natural sciences. Students learn about key topics and statistical methods that may be applied to areas such as economics, mathematics, psychology, business, and health sciences, to name a few. The course provides a foundation in descriptive and inferential statistics, and in probability.

Prerequisite: college algebra or equivalent.

Session C
U20 205 (3 units)
ONLINE
8-week course

INTRODUCTION TO STATISTICAL PROGRAMMING WITH R
In this online course, students learn how to work with data using the R package. R is a computer language that is often used for statistical analysis and computations. This course will include a short introduction to terms and concepts from descriptive statistics (mean, median and frequency, for example), but this is not a statistics course. No prior programming or statistics is required, although both/either would be helpful. This is a fully online course, but optional on-campus meetings will be held periodically for students who would like face-to-face interactions with the instructor and fellow students.

Prerequisite: college algebra or equivalent.

Session C
U20 124 (3 units)
ONLINE
8-week course

THE ART OF MATHEMATICAL THINKING
Mathematics plays an important role in society, from engineering to architecture to the social and behavioral sciences. This fully online course exposes nonmath majors to fascinating sides of mathematics that are typically not discussed in standard math courses. Students learn effective thinking techniques with applications beyond standard mathematics and discover exciting ideas and new perspectives about the world. We look at questions like: What do rabbits, piano keyboards, and pine cones have to do with the Parthenon? What do secret codes and bar codes have to do with number systems and prime numbers? What are some uses and misuses of mathematics in everyday life? Why are coincidences not so amazing after all?

Prerequisite: None

Session C
U20 210 (3 units)
ONLINE
8-week course

MUSIC

HOW TO LISTEN TO POPULAR MUSIC
Learn to talk and write about popular music. We will consider all kinds of popular music; American and not, from the entire history of recorded sound. Issues of technology, the music industry, genre, musical form and style, gender, sexuality, and social class will all be considered. And we’ll learn to dance as well. Coursework includes listening to and reading about music, writing in various online-friendly formats, and making short videos and podcasts.

Prerequisite: None
PHILOSOPHY

BIOMEDICAL ETHICS
A critical examination, in light of contemporary moral disagreements and traditional ethical theories, of some of the moral issues arising out of medical practice and experimentation in our society. May include euthanasia, genetic engineering, abortion, medical malpractice, the allocation of medical resources, and the rights of the patient.

Prerequisite: None

BUSINESS ETHICS
This course covers a wide range of business topics that have ethical elements and consequences. Students will examine various issues and consider what personal and corporate responsibility demands in various situations, as well as what the obligations of justice command. Issues that may be discussed include employment at will, whistleblowers, discrimination, harassment, affirmative action, and business responsibility toward consumers, the environment, and customers, and whether the sole moral obligation of businesses is to make money.

Prerequisite: None

PHYSICS

GENERAL PHYSICS I
First semester of a two-semester, calculus-based introductory physics sequence designed to expose students to the concepts, laws, and structure of physics. Topics include kinematics, Newton’s laws, energy, linear momentum, angular momentum, conservation laws, gravitational force, harmonic motion, wave motion and interference, sound, and special relativity. Five 2.75-hour lectures and two 3-hour lab sessions each week (all mandatory).

Prerequisite: AP Calculus AB with a grade of B or better

PSYCHOLOGY

INTRODUCTION TO PSYCHOLOGY
Survey and analysis of concepts, research, and theory covering the areas of learning, memory, motivation, personality, social, abnormal, clinical, and biological psychology. Introduces the diversity of questions, areas, approaches, research, and theories that compose the study of mind and behavior.

Prerequisite: None

SOCIOLOGY

Social Problems and Social Issues
Through a sociological lens, this course examines the causes and consequences of pressing contemporary social problems in the United States, including increasing poverty and inequality, "modern" racism and sexism, the crisis in health care (with a unique focus on the lack of adequate mental-health services), crime, incarceration and criminal justice, changing patterns of drug abuse, fragile family structures, globalization and assaults on human rights, and environmental degradation. We will also examine the empirical underpinnings on the basis of inequality focusing on the intersection of disadvantaged statuses related to race, social class, gender, ethnicity, and sexuality that heighten the risk for social problems and how these risks play out in American society. Through a research project, students will learn how innovative sociological paradigms (some of which have been created outside of the United States) can offer guidelines for successful intervention strategies. Briefings from a few agencies dealing directly with these problems will share perspectives on theoretical and applied work related to advocacy, justice, and interventions. This course is especially relevant for those interested in graduate work and career goals in health and medicine, social service, law, and public policy.

Prerequisite: None
SPANISH

ONLINE INTERMEDIATE SPANISH I
This online approach to intermediate-level reading, speaking, and writing in Spanish includes an introduction to important cultural aspects of Latin American and Spanish culture. We will use the Internet, videos, and traditional textbooks to complete an intermediate level Spanish grammar review.
Prerequisite: two years of high school Spanish

WOMEN, GENDER, AND SEXUALITY STUDIES

Introduction to Women, Gender, and Sexuality Studies
This course will provide an introduction to the major and concepts in the interdisciplinary field of women, gender and sexuality. We will examine the meanings attached to terms such as "man," "woman," "gay," and "sex." Topics discussed may include the history of feminist movements, masculinity, biological frameworks for understanding gender, intimate violence, sexual identities, and intersectionality.
Prerequisite: None

YOGA & T’AI CHI

YOGA AND RELAXATION TECHNIQUES
Systematic introduction to the methods and theory of Hatha Yoga as a means of stretching, strengthening, energizing, and relaxing the body. This class focuses on breath work and poses as the foundation of Hatha Yoga practice supplemented by relaxation and visualization exercises. Students should wear comfortable clothing and bring a towel or mat. Related readings assigned. Participation requires steady commitment and physical dexterity. This course is available as Pass/Fail only.
Prerequisite: None

BEGINNING T’AI CHI CH’UAN
An introduction to the theory and practice of T’ai Chi Ch’uan. T’ai Chi Ch’uan is based on the Daoist theory of complementary opposites (yin/yang). The purpose of these exercises is to help students gain bodily strength, balance, flexibility, peace of mind, relaxation, and improved circulation. T’ai Chi Ch’uan may also be used for self-defense; it specializes in the neutralization of an attack by turning of the waist. Students should wear loose-fitting clothing and sneakers. Readings in Daoist texts, including taijiquan classics, are assigned. This course is available as Pass/Fail only.
Prerequisite: None