Global Sumer Institute
College of Arts & Sciences Course List

General Interest Courses

**ARH 203: Arts of Asia (3 credits)**
A general course on Far Eastern art covering India, China, and Japan from its beginnings to the present. Emphasis is on the major arts of painting and sculpture, with some reference to architecture.

*Prerequisite:* None.

**ARS 154: Foundations: Drawing (3 credits)**
Fundamentals of drawing with a focus on developing technical and perceptual skills in hand-eye coordination and the ability to draw from observation using a variety of media. Conceptual and expressive possibilities of drawing explored within a range of subject matter that includes still life, the figure, landscape, and the study of the drawings of major artists, past and present.

*Prerequisite:* None.

**ARS 225: Introduction to Digital Art (3 credits)**
A hands-on introduction to the use of computers in the fine arts. Students explore image creation/manipulation, digital publishing and moving image through lecture, lab and discussion. Emphasis is on the expressive potential of the technology. No prior computer experience is required. Study of the history and impact of digital media on the arts and contemporary culture contextualize practical assignments. This course serves as preparation for further study in electronic media. This course has an associated fee. Please see www.stonybrook.edu/coursefees for more information.

*Prerequisite:* ARS 205 recommended.

**BIO 114: Dinosaur Paleontology (3 credits)**
A study of paleontology that includes evolution of dinosaurs, their classification system, a study of the important dinosaur families, dinosaur behavior, ecology, current controversies, hot topics and the KT extinction. Dinosaur paleontology will also cover the excavation of dinosaurs and the colorful history of the 'dinosaur hunters.' This course will emphasize the science and research involved in studying dinosaurs. Using dinosaurs as a vehicle, students will be exposed to the scientific method of inquiry and will leave this course with a better understanding on how to evaluate science in the real world. Not for Biology major credit.

*Advisory prerequisite:* Entry level biology

**THR 105: Acting I (3 credits)**
The basic vocabulary and skills of the actor's craft. Students explore acting techniques through theatre games and improvisation.

*Prerequisite:* None.

Beginner-level Courses

**MAP 103: Proficiency Algebra (3 credits)**
An intensive review of high school algebra as preparation for calculus and other mathematics. Facility with exponents, basic graphing, solving linear and quadratic equations in one variable, solving linear systems in two variables, polynomials, factorization of algebraic expressions, binomial theorem, and inequalities. Algebraic manipulations, analytic geometry of lines.

*Prerequisite:* Level 2 on the mathematics placement examination or MAP 101.

**MAT 122: Overview of Calculus with Application (3 credits)**
The basics of calculus in a self-contained, one-semester course. Properties and application of polynomial, exponential, and logarithmic functions. Derivatives: slopes, rates of change, optimization, integrals, area, cumulative change, and average. The fundamental theorem of calculus. Emphasis on modeling examples from economics.

*Prerequisite:* C or better in MAP 103 or level 3 on the mathematics placement exam.
**MAT 123: Introduction to Calculus (3 credits)**

*Prerequisite:* C or better in MAP 103 or level 3 on the mathematics placement exam.

**POL 102: Intro to American Government (3 credits)**
What the informed citizen and specialist should know about the organization of American government, including the Constitution and what it means today, the Congress, political parties, pressure groups, growth of the Presidency, the Supreme Court, judicial review, federalism, separation of powers, and the Bill of Rights.

*Prerequisite:* None.

**PSY 103: Intro to Psychology (3 credits)**
An introduction to research and theory in psychology in such areas as learning, perception, cognition, biopsychology, development, personality, and abnormal and social psychology. As part of the course, students must participate in experiments and/or a library research project.

*Prerequisite:* None.

**SOC 105: Introduction to Sociology (3 credits)**
A general introduction to the science of sociology, emphasizing sociological theory and methods. Students are taught what is unique about the way in which sociologists analyze human behavior and society. Differences between the sociological perspective and perspectives of other social sciences are emphasized. There is also a heavy emphasis on the types of methods and data that sociologists use to test the validity of their ideas.

*Prerequisite:* None.
Intermediate-level Courses

**MAT 125: Calculus A (3 credits)**
Differential calculus, emphasizing conceptual understanding, computations and applications, for students who have the necessary background from 12th-year high school mathematics. Differentiation of elementary algebraic, trigonometric, exponential and logarithmic functions; graphing; modeling; and maximization.

*Prerequisite:* C or higher in MAT 123; or level 4 on the mathematics placement exam.

**MAT 126: Calculus B (3 credits)**
A continuation of MAT 125, covering integral calculus: the fundamental theorem, symbolic and numeric methods of integration, area under a curve, volume, applications such as work and probability, complex numbers.

*Prerequisite:* C or higher in MAT 125, 131, 141 or AMS 151 or level 6 on the mathematics placement exam.

**MAT 127: Calculus C (3 credits)**
A continuation of MAT 126, covering: improper integrals and l'Hôpital's rule, sequences, series, Taylor series, differential equations and modeling.

*Prerequisites:* C or higher in MAT 126 or level 8 on the mathematics placement exam.

**MAT 132: Calculus II (4 credits)**
A continuation of MAT 131, covering symbolic and numeric methods of integration; area under a curve; volume; applications such as work and probability; improper integrals and l'Hospital's rule; complex numbers; sequences; series; Taylor series; differential equations; and modelling.

*Prerequisite:* C or higher in AMS 151 or MAT 131 or 141, or level 7 on the mathematics placement exam.

**PSY 230: Survey in Abnormal and Clinical Psychology (3 credits)**
Examines the description, etiology, course, and treatment of psychological disorders. Current theory and research are emphasized.

*Prerequisite:* PSY 103

**PSY 240: Survey in Social Psychology (3 credits)**
A presentation of various topics in social psychology including interpersonal processes, obedience to authority, social perception, attitude change, attraction and liking, and aggression and violence, especially as applied to national and international issues.

*Prerequisite:* PSY 103

**SOC 201: Research Methods in Sociology (3 credits)**
Methods of collecting and analyzing empirical data to test sociological hypotheses. Emphasis is on multivariate analysis of tabular and statistical data.

*Prerequisite:* SOC 105
Advanced-level Courses

**ECO 303: Intermediate Microeconomic Theory (4 credits)**
Analytical study of the behavior of fundamental economic units (consumer and the firm) and its implications for the production and distribution of goods and services. Emphasis on the use of economic theory to provide explanations of observed phenomena, including the analytical derivation of empirically verifiable propositions. This course has been designated as a High Demand/Controlled Access (HD/CA) course. Students registering for HD/CA courses for the first time will have priority to do so.

*Prerequisite:* C or higher in ECO 108; C or higher in MAT 122 or MAT 123 or AMS 151 or placement level 4 on the mathematics placement examination.

**ECO 321: Econometrics (4 credits)**
The application of mathematical and statistical methods to economic theory. Topics include the concept of an explanatory economic model, multiple regression, hypothesis testing, simultaneous equation models, and estimating techniques. Emphasis is placed on the application of econometric studies.

*Prerequisite:* C or higher in ECO 320 or AMS 310; C or higher in ECO 108.

**HIS 390: Topics in Ancient History (3 credits)**
Topic: The Middle Ages at the Movies. Designed for upper-division students, this course provides an in-depth study of a specific topic relating to ancient history. May be repeated as the topic changes.

*Prerequisites:* U3 or U4 standing; one European history course

**HIS 393: Topics in Modern European History (3 credits)**
Topic: Alcohol & Power in History. Designed for upper-division students, this course provides an in-depth study of a specific topic relating to modern European history. May be repeated as the topic changes.

*Prerequisite:* HIS 102.

**PSY 367: Memory (3 credits)**
A review of classic and current theories of memory and empirical research on memory in memory-intact and memory-impaired populations.

*Prerequisite:* PSY 260; Advisory Prerequisite: PSY 310

**SOC 315: Sociology of Technology (3 credits)**
Social systems and the various "tools" they develop to shape their environment. Concentration on technologies of highly developed, modern societies and on ethical issues involved in attempts to guide the development and effects of these technologies. Consideration is given to the role of technology in all societies, from the simplest to the most developed.

*Prerequisite:* SOC 105; two other courses in the social sciences; one D.E.C. E or SNW course