ANTH (BIOL) 4660* Evolution of Human Behavior 3(3) Familiarizes students with the evolutionary basis of human behavior. Examines topics such as altruism, cooperation, mating systems, parental investment, and social systems using diverse examples, from hunter-gatherer to technological societies. May also be offered as BIOL 4660. Preq: ANTH 3510 or BIOL 3350 or BIOL 3510 or BIOL 4700 or BIOL 6700 or PSYC 2010.

ANTH (BIOL) 4740* Primateology 4(3) Biology of nonhuman primates, including their evolution, taxonomy, physiology, life history, behavioral ecology and conservation. Three field trips are required, during which students conduct behavioral observations and later analyze their data and present it in report format. May also be offered as BIOL 4740. Preq: ANTH 3510 or BIOL 3510; and either BIOL 1110 or both BIOL 1040 and BIOL 1060. Coreq: ANTH 4741.

ANTH (BIOL) 4741* Primate Laboratory 0(3) Non-credit laboratory to accompany ANTH 4740. May also be offered as BIOL 4741. Coreq: ANTH 4740.

ANTH 4950 Field Studies 1-6(1-6) Group field project in settings selected by the instructor to provide students with a variety of exposures to various cultural contexts. Archaeological digs are included. Project progress and student interpretations of findings are monitored by periodic group meetings and shared experiences. May be repeated for a maximum of six credits. Preq: Consent of instructor.

ANTH 4960 Creative Inquiry 1-3(1-3) Investigates topics in anthropology selected by faculty and students. Goals, research, and outcomes vary from semester to semester and project to project. May be repeated for a maximum of 12 credits. Preq: ANTH 2010 and consent of instructor.

ANTH 4980 Independent Study 1-3(1-3) Individual readings or projects in anthropological areas not covered in other courses. May be repeated for a maximum of six credits with advisor's approval. Preq: ANTH 2010 and consent of instructor.

ANTH 4990 Special Topics 1-3(1-6) Anthropological topics of special interest are explored. May be repeated for a maximum of six credits if different topics are covered.

ARABIC
Lecturer: S. A. abousamra

ARAB 1000 Introduction to Arabic Conversation and Comprehension 3(3) Introduction to the Arabic language and its different dialects and cultures. Also prepares students who wish to travel to Arabic speaking countries.

ARAB 1010 Elementary Arabic I 4(3) Introductory course for beginners emphasizing acquisition of the Arabic alphabet and writing, basic grammar, vocabulary, speaking and listening skills, and developing strategies for the successful long-term acquisition of Arabic. Coreq: ARAB 1011.

ARAB 1011 Elementary Arabic I Laboratory 0(1) Non-credit laboratory to accompany ARAB 1010. Coreq: ARAB 1010.

ARAB 1020 Elementary Arabic II 4(3) Continuation of ARAB 1010 consisting of three hours a week of classroom instruction and one hour a week in the language laboratory. Preq: ARAB 1021.

ARAB 1021 Elementary Arabic II Laboratory 0(1) Non-credit laboratory to accompany ARAB 1020. Coreq: ARAB 1020.


ARAB 2011 Intermediate Arabic I Laboratory 0(1) Non-credit laboratory to accompany ARAB 2010. Coreq: ARAB 2010.


ARAB 2021 Intermediate Arabic II Laboratory 0(1) Non-credit laboratory to accompany ARAB 2020. Coreq: ARAB 2020.

ARAB 3050 Intermediate Arabic Conversation and Composition 3(3) Practice in modern standard Arabic with emphasis on vocabulary, pronunciation, intonation and comprehension. Includes written work to increase accuracy and assignments in the language laboratory. Preq: ARAB 2020.

ARCHITECTURE

ARCH 1500 Collaborative Studio II 3(1) Continuation of ARCH 1500. Introduction to an elemental vocabulary of architecture within basic spatial design problems, emphasizing visual communications skills, oral presentations of work, and analysis and discussion of design issues through critical readings of canonical texts and buildings. Preq: ARCH 1510. Coreq: ARCH 1521.

ARCH 1521 Collaborative Studio II Laboratory 0(6) Non-credit laboratory to accompany ARCH 1520. Coreq: 1520.

ARCH 2040 History of Modern Architecture 3(3) Survey of the modern period featuring special topics in the history of architecture. Emphasis is on typologies, historical antecedents and European precedents which give shape to buildings in the period of study. Key aspects of architectural theory and practice will be highlighted. Preq: ARCH 1510. Coreq: ARCH 2511.

ARCH 2511 Architecture Foundations I Laboratory 0(10) Non-credit laboratory to accompany ARCH 2510. Coreq: ARCH 2510.

ARCH 2520 Architecture Foundations II 6(2) Continuation of ARCH 2510. Architectural design problems with a focus on structural and construction principles and their relationship to contextual situations. Instruction in oral communication skills and computer graphics support the design discussions. Preq: ARCH 2510. Coreq: ARCH 2521.

ARCH 2521 Architecture Foundations II Laboratory 0(10) Non-credit laboratory to accompany ARCH 2520. Coreq: ARCH 2520.

ARCH 2700 Structures I 3(3) The study of statically determinate structural elements and systems including load tracing through modeling and theoretical and analytical analysis, the interrelationships between stress and strain, stability and the implication of tension, compression, shear, torsion and bending. Preq: PHYS 2070 and PHYS 2090.

ARCH 2710 Structures II 3(3) The study of force distributions and behavior in building structures constructed of reinforced concrete, steel and wood. Exploration of typical building components including beams, slabs, columns and foundations and how they are used in high-rise and long span structural design. Preq: ARCH 2700 or CSMS 2010.

ARCH 3500 Introduction to Urban Contexts 6(12) Addresses architectural problems related to urban contexts, and studies architectural resolutions that explore the interface between buildings and the public realm for particular sites. Introduces urban design fundamentals, building egress codes, and zoning, and promotes continued development of architectural, graphic and oral communication skills. Design problems vary every semester according to current issues.
ARCH 3510 Studio Clemson 6(1) Addresses architectural problems with varied scales, programs, and locations. Emphasizes the relationship between architecture and context. Projects include analysis, conceptual development, and architectonic resolutions. Continued development of graphic and oral communication skills. Design problems vary every semester according to current issues. May be repeated for a maximum of 18 credits. Coreq: ARCH 2520. Coreq: ARCH 3510.

ARCH 3520 Studio Charleston 6(1) Addresses architectural problems with varied scales and programs in the context of Charleston, South Carolina. Emphasizes the relationship between architecture and context. Projects include analysis, conceptual development, and architectonic resolutions. Continued development of graphic and oral communication skills. Design problems vary every semester according to current issues. May be repeated for a maximum of 12 credits. Preq: ARCH 2520. Coreq: ARCH 3521.

ARCH 3521 Studio Charleston Laboratory 0(11) Non-credit laboratory to accompany ARCH 3520. Coreq: ARCH 3520.

ARCH 3530 Studio Genoa 6(1) Addresses architectural problems with varied scales and programs in the context of Genoa, Italy, and historic Europe. Emphasizes the relationship between architecture and context. Projects include analysis, conceptual development, and architectonic resolutions. Design problems vary every semester according to current issues. Continued development of graphic and oral communication skills. May be repeated for a maximum of 12 credits. Preq: ARCH 2520. Coreq: ARCH 3531.

ARCH 3531 Studio Genoa Laboratory 0(11) Non-credit laboratory to accompany ARCH 3530. Coreq: ARCH 3530.

ARCH 3540 Studio Barcelona 6(1) Addresses architectural problems with varied scales and programs in the context of Barcelona, Spain. Emphasizes the relationship between architecture and context. Projects include analysis, conceptual development, and architectonic resolutions. Continued development of graphic and oral communication skills. Design problems vary every semester according to current issues. May be repeated for a maximum of 12 credits. Preq: ARCH 2520. Coreq: ARCH 3541.

ARCH 3541 Studio Barcelona Laboratory 0(11) Non-credit laboratory to accompany ARCH 3540. Coreq: ARCH 3540.

ARCH 3550 Studio South 6(1) Addresses architectural problems with varied scales and programs in the context of the South. Emphasizes the relationship between architecture, community, and context. Projects include analysis, conceptual development, and architectonic resolutions. Continued development of graphic and oral communication skills. Design problems vary every semester according to current issues. May be repeated for a maximum of twelve credits. Preq: ARCH 2520. Coreq: ARCH 3551.

ARCH 3551 Studio South Laboratory 0(11) Non-credit laboratory to accompany ARCH 3550. Coreq: ARCH 3550.

ARCH 4010 Architectural Portfolio 3(3) Continues portfolio development for Architecture students, including professional portfolio, academic portfolio, and digital portfolio. Preq: ARCH 2520.

ARCH 4030 The Modern Architectural Movement 3(3) Seminar in the analysis and criticism of architectural and town building works. Course sequence includes historic and contemporary examples, literary searches, field trips, essays, and oral reports. Preq: Senior standing.

ARCH 4040 Current Directions in Architecture 3(3) Critical analysis of the development and current directions of modern movements in architecture. Preq: Senior standing.

ARCH 4050 American Architectural Styles 1650–1950 3(3) Survey of American architectural styles and of the architects responsible for them, from the Colonial period to our recent past. Considerable emphasis is placed on identifying those architectural elements which serve as clues in determining a building's architectural style.

ARCH 4210 Architectural History Research 3(3) Directed investigations related to the art and architectural history of Europe. May be repeated for a maximum of six credits. Preq: Junior standing.

ARCH 4210 Architectural History Research 3(3) Directed investigations related to the art and architectural history of Europe. May be repeated for a maximum of six credits. Preq: Junior standing.

ARCH 4240 Product Design 3(9) Furniture and product system design with emphasis on ergonomics and the relationship of form and materials. Preq: Senior standing.

ARCH 4250 Energy in Architecture 3(3) Climate and use them to document and analyze existing architectural elements which serve as clues in determining a building's architectural style.

ARCH 4250 Energy in Architecture 3(3) Climate and use them to document and analyze existing architectural elements which serve as clues in determining a building's architectural style.

ARCH 4290 Architectural Graphics 3(3) Provide critical analysis of the development and current directions of modern movements in architecture. Preq: Senior standing.

ARCH 4290 Architectural Graphics 3(3) Provide critical analysis of the development and current directions of modern movements in architecture. Preq: Senior standing.

ARCH 4300* Theories and Philosophies of Architecture 3(3) Theoretical and practical examination of technology and architecture from premodern and modern viewpoints to study its nonneutral role in shaping and reflecting knowledge, beliefs, and actions within a cultural context.

ARCH 4400* New York Field Study 3(3) Study of architecture, art, planning, and urban design of New York. Two weeks of residence are required with scheduled field trips to relevant sites in all five boroughs, with counseling to determine research interests. Guidance is provided to resources in the city. A final report is required. Offered in the summer only.


ARCH 4520 Synthesis Studio 6(1) Integrates acquired skills, abilities, and interests from previous architecture studios. Projects emphasize the accumulation of architectural experiences and knowledge. Preq: Senior standing. Coreq: ARCH 4521.

ARCH 4521 Synthesis Studio Laboratory 0(11) Non-credit laboratory to accompany ARCH 4520. Coreq: ARCH 4520.

ARCH 4710 Architectural History of Place 3(3) Survey of urban design and architectural history using examples viewed in a particular locale. Emphasizes an overview survey of design movements identifying specific design elements and understanding how they are used in shaping place. C course is offered only during the summer at study abroad locations. Preq: ARCH 1010.

ARCH 4720 Architectural Field Studies 3(1) Students develop diagramming and writing skills and use them to document and analyze existing works of urban design and architecture observed during field trips. Course is only offered during the summer at study abroad locations. Preq: ARCH 1010. Coreq: ARCH 4721.

ARCH 4721 Architectural Field Studies Laboratory 0(6) Non-credit laboratory to accompany ARCH 4720. Coreq: ARCH 4720.

ARCH 4770 Introduction of Craft 1-3(1-3) Architectural craft lab offered under different materials specialty, all of which introduce students to design as informed by craft through a hands-on lab. Basic craft operations and material properties are introduced for the subject material (wood, steel, etc.) May be repeated for a maximum of six credits.
ARCH 1510 Foundations in Visual Art I 3 (6) Intensive introduction to the fundamentals of visual art. Studio projects, lectures, and discussions introduce topics and projects relative to foundation-level art students. Explores historical and contemporary applications of the elements and principles of design. Preq: Visual Arts major.

ARCH 1520 Foundations in Visual Art II 3 (6) Intensive introduction to the fundamentals of visual art. Studio projects, lectures, and discussions introduce topics and projects relative to foundation-level art students. Explores historical and contemporary applications of the elements and principles of design. Preq: Visual Arts major.

ART 1030 Visual Arts Studio 3 (6) Studio projects in basic visual elements and principles. The development of creative design process, visual organization, and design skills are introduced as a foundation for further study in visual arts.

ART 1050 Foundation Drawing I 3(3) Introduction to drawing. Presents exploration of observational drawing practices with an emphasis on structural investigations of form and application of spatial systems. Basic materials and approaches associated with drawing are studied and applied. Preq: Visual Arts major.

ART 1060 Foundation Drawing II 3(3) Further exploration of introductory drawing. Emphasizes use of tone and color. Students work primarily with representational categories, developing comprehension of complex forms and spaces in relation to the 2-D planes. Includes use of rigorous observational drawing practices in conjunction with thematic efforts. Preq: ART 1050 or ART 1510.

ART 2050 Beginning Life Drawing 3 (6) Primary emphasis is on drawing from the live model. Students’ drawing skills and fundamental understanding of the structure and form of the human figure are reviewed through studio practice, augmented by lectures, discussions, demonstrations, and critiques. Addresses historical and contemporary use of the human figure in visual arts. Preq: ART 1060 or ART 1510 or ART 1520.

ART 2070 Beginning Painting 3 (6) Introduction to basic materials, methods, and techniques of painting. Primary medium used is acrylic, and other painting media may also be introduced. Emphasizes basic skills in painting plus individual creative development. Preq: ART 1510 and ART 1530 and ART 2050 (Visual Arts majors); ART 1030 (non-Art majors); ARCH 1520 (Architecture majors); LARC 1520 (Landscape Architecture majors).

ART 2090 Beginning Sculpture 3 (6) Studio course investigating the meaning of sculpture through traditional and nontraditional approaches. Establishes a working knowledge of material and process in several media. Personal expression is encouraged and enhanced by employment of problem-solving techniques. Static, temporal, installation, and site-specific sculpture is explored. Preq: ART 1510 and ART 1520 and ART 1530 and ART 2050 (Visual Arts majors); ART 1030 (non-Art majors); ARCH 1520 (Architecture majors); LARC 1520 (Landscape Architecture majors).

ART 2100 Beginning Printmaking 3 (6) Studio course introducing basic techniques of relief printing, intaglio, lithography, silkscreen, and papermaking. Each semester concentrates on two or three of these techniques. Coursework integrates printmaking processes and creativity. Preq: ART 1510 and ART 1520 and ART 1530 and ART 1540 and ART 2050 (Visual Arts majors); ART 1030 (non-Art majors); ARCH 1520 (Architecture majors); LARC 1520 (Landscape Architecture majors).

ART 2130 Beginning Photography 3 (6) Introduction to the use of photography as an art medium. Lectures and studio work cover the utilization of the camera, processing, and printing in black and white, with emphasis on perception and creative expression. Preq: ART 1510 and ART 1520 and ART 1530 and ART 1540 and ART 2050 (Visual Arts majors); ART 1030 (non-Art majors); ARCH 1520 (Architecture majors); LARC 1520 (Landscape Architecture majors).

ART 2150 Beginning Graphic Design 3 (6) Introduction to fundamental techniques, concepts, and principles of visual communication. Through a series of projects and studio work, students explore techniques of communication through the use of type design, typography, photography, illustration, symbolism, and product design. Individual creative development is stressed. Preq: ART 1510 and ART 1520 and ART 1530 and ART 1540 and ART 2050 (Visual Arts majors); ART 1030 (non-Art majors); ARCH 1520 (Architecture majors); LARC 1520 (Landscape Architecture majors).

ART 2210 Beginning Ceramics 3 (6) Basic studio course introducing ceramic arts through its various processes and techniques. Hand building methods as well as throwing on the potter’s wheel are developed. Weekly projects emphasize imagination, self-expression, and skill development. Ceramic history is introduced through slide lectures. Preq: ART 1510 and ART 1520 and ART 1530 and ART 1540 and ART 2050 (Visual Arts majors); ART 1030 (non-Art majors); ARCH 1520 (Architecture majors); LARC 1520 (Landscape Architecture majors).

ART 2220 Beginning New Media 3 (6) Explores new media art practices and ideas. Digital tools and processes are explored relative to drawing, painting, printing, bookmaking, and photography. Introduces new media as a context of new collective, interactive, and social modes of art production. Preq: ART 1060 and ART 1510 and ART 1520.

ART 2230 Woodworking Studio 3 (6) Introduces woodworking explorations in sculpture and furniture design emphasizing technical understanding and creative application of woodworking processes and methodologies. Students experiment with wood as a vehicle for personal expression and thematic development and conduct research on the historical impact of woodworking in the visual arts. Preq: ART 1510; and one of ART 1520 or ARCH 1520 or LARC 1520.