Applied Mathematics
(A Graduate Group)

Group Office, 1130 Mathematical Sciences Bldg. 530-752-8130
studentservices@math.ucdavis.edu; http://math.ucdavis.edu/grad/ggpm

Faculty. The Group includes approximately 90 faculty members, of whom about one-third are in the Department of Mathematics. Membership comprises chemists, biologists, physicists, geologists, statisticians, computer scientists, and engineers. Research interests include biology, atmospheric sciences, mechanics, solid and fluid dynamics, optimization and control, theoretical chemistry, computer and engineering sciences, mathematical finance, and image processing, harmonic analysis, numerical analysis and nonlinear partial differential equations. A complete list of faculty and their research areas are available at http://math.ucdavis.edu/grad/ggpm/faculty.

Graduate Study. Students prepare for careers where mathematics is applied to problems in the physical and life sciences, engineering, and management. The degree requirements consist of rigorous training in applied mathematics, including course work and a research dissertation under the direction of a member of the Graduate Group in Applied Mathematics. The M.S. degree provides preparation for further study in applied mathematics or an application area, or for a career in industry or public service. The Ph.D. degree provides preparation for a career in research and/or teaching, or in industrial or national research laboratories. For further information, please contact studentservices@math.ucdavis.edu or 530-752-8130.

New applicants are admitted to the fall quarter only.

Preparation. The program admits qualified students with a bachelor's degree in mathematics, physics, chemistry, engineering, economics, the life sciences and related fields. General and advanced mathematics GRE scores are required, and applicants should display evidence of strong quantitative skills. Undergraduate courses should include calculus (including vector calculus), linear algebra, and ordinary differential equations. Advanced calculus (introduction to real analysis) is strongly recommended. Additional background in probability, partial differential equations, and/or numerical analysis is a plus. The ability to program in a high-level computer programming language (e.g., C, Fortran, MATLAB, Python, R, etc.) is assumed.

Graduate Advisers. Contact the Student Services Office at 530-752-8130 or by email at studentservices@math.ucdavis.edu or 530-752-8130.

Courses. For a list of the courses in applied mathematics and mathematics, see Mathematics, on page 419.

Applied Mathematics

See Classics, on page 211.

Art History

(College of Letters and Science)

Department Office, 101 Art Building 530-752-0105; http://arthistory.ucdavis.edu

Faculty

Katharine Burnett, Ph.D., Associate Professor
Talinn Grigor, Professor
Lynn Roller, Ph.D., Professor
Diana Strazdas, Ph.D., Associate Professor
Hegnar Watenaugh, Ph.D., Associate Professor
Emretti Faculty

Robert J. Grigg, Ph.D., Professor Emeritus
Seymour Howard, Ph.D., Professor Emeritus
Jeffrey Rudin, Ph.D., Professor Emeritus
Dianne Sachko Macleod, Ph.D., Professor Emerita

The Major Program

Art History studies the changing visual expression of values, beliefs and experiences across diverse cultures and times. It provides training in historical, social and aesthetic understanding, critical thinking, scholarly research, and lucid, thoughtful analysis and writing. More than any other discipline art history sharpens its students' visual acuity and deepens their visual literacy. In so doing, it prepares them to face the increasingly complex visual world we find ourselves in today.

The Program. The major begins with a series of courses that surveys major landmarks in the history of visual culture, art and architecture in Asia, Europe, and the United States. More advanced lecture courses and seminars focus on particularly important periods and issues. Students are encouraged to personalize their training with internships, independent study, and focused upper-division study. Top students considering graduate study are encouraged to engage in more advance study in the Honors program.

Career Options. A major in Art History develops critical thinking and the integration of research, interpretation and understanding. It provides an excellent liberal arts basis for professions as far ranging as law, medicine, politics and business. The major prepares students for advanced study in Art History, Architecture, Museum Studies and Cultural Studies. It also serves as the foundation for careers in teaching, art betterment, art administration, art galleries, historic preservation, art libraries, publishing, journalism, advertising, art conservation, and art investment. As the world becomes increasingly flooded with images, the critical visual literacy gained through study becomes more important for a wide variety of careers.

A.B. Major Requirements:

Preparatory Subject Matter ............................................. 20

Any four of the following courses: Art History 1A, 1B, 1C, 1D, 1DY, 1E, 1F, and 25 ..... 16

Any lower division Art Studio course except 10 or 30

Depth Subject Matter ............................................. 40

Four courses, one each in four of the following six areas. Two courses must be from areas a, b, c, and two courses must be from areas d, e, f. ................................. 16

(a) Ancient Mediterranean Art: Art History 172A, 172B, 173, 175
(b) East Asian Art: Art History 163A, 163B, 163C, 163D, 164
(c) Islamic Art: Art History 120A, 155, 156
(d) European Art before 1700: Art History 178B, 178C, 178D
(e) Western Art 1700-1900: Art History 110, 116, 182, 183A, 183B, 183C, 183D, 183E, 188A, 188B
(f) Art after 1900: Art History 110, 148, 163D, 183C, 184, 185, 186, 187, 189

Undergraduate Seminar Art History 190A-A ............................................. 4

Electives ................................................................. 20

Five additional upper-division Art History courses to be chosen in consultation with the major adviser. Appropriate course substitutions may be made with the consent of the major adviser. Art History 401 and 402 may be counted among the elective units.

Total Units for the Major....................... 60

Emphasis in Architectural History

Art History .................................................. 60

Emphasis in Architectural History follows the same requirements as for the Art History major above, applying at least six of the following courses to their respective required areas or as electives: Art History 25, 110, 120A, 155, 163A, 168, 172A, 172B, 173, 175, 176A, 176B, 176C, 178B, 178C, 178D, 184, 188A, 188B.

The following upper-division seminar requirement (Art History 190A-H) through an architectural topic is highly recommended.

Minor Program Requirements:

Art History .................................................. 20

Three courses chosen from three of the following six areas with at least one course in area a, b, c, or d, and one course in area e, f.

(a) Ancient Mediterranean Art: Art History 172A, 172B, 173, 175
(b) East Asian Art: Art History 163A, 163B, 163C, 163D, 164
(c) Islamic Art: Art History 120A, 155, 156
(d) European Art before 1700: Art History 178B, 178C, 178D
(e) Western Art 1700-1900: Art History 110, 116, 182, 183A, 183B, 183C, 183D, 183E, 188A, 188B
(f) Art after 1900: Art History 148, 163D, 183C, 184, 185, 186, 189

Two additional Art History courses which may include 401, 402. Undergraduate Seminar, Art History 190A-H is highly recommended. ......................... 8

One lower division course may be substituted for upper-division study in any of these areas. Other appropriate substitutions may be made for the course options listed above with the prior consent of the major adviser.

Honors Program. The Honors Program is encouraged for Art History majors who are considering attending graduate school. To be eligible for the program, a student must have a grade point average of 3.700 in the major or consent of the major adviser. In addition to meeting the standard major requirements, the honors student completes one undergraduate seminar (course 100 or 190A-L), and writes an honors thesis (course 194H) after completing Art History 100 or equivalent. Candidates preparing a preliminary thesis draft through a preparatory special study (Art History 199), supervised by the prospective thesis adviser. Students participating in this Program are candidates for Departmental recommendation for graduation with High or Highest Honors. See the Academic Information chapter, Letters and Science honors section, of this catalog and consult the department website for more information.

Teaching Credential Subject Representative. Department Chairperson; see the Teacher Education program.