Applied Mathematics (A Graduate Group)

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

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 science, mathematical modeling, image 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/ggnum/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.

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, linear algebra, and ordinary differential equations. Additional courses in mathematical programming (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

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

Arabic

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

Katherine Burnett, Ph.D., Associate Professor
Talinn Grigor, Professor
Lynn Roussel, Ph.D., Professor
Diana Strozdza, Ph.D., Associate Professor
Hegnur Watengo, Ph.D., Associate Professor
Mereditz Faculty

Robert J. Grigg, Ph.D., Professor Emeritus
Seymour Howard, Ph.D., Professor Emeritus
Jeffrey Ruda, Ph.D., Professor Emeritus
Dianne Sachso Macleod, Ph.D., Professor Emeritus

The Major Program

Art History studies the changing visual expression of values, beliefs and experiences across diverse cultures and over time. 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 advertising, 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, arts, administration, museums, 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 this major becomes more important for a wide variety of careers.

A.B. Major Requirements:

Preparatory Subject Matter. Any four of the following courses: Art History 1A, 1B, 1C, 1D, 1Y, 1E, 5, and 25
Any lower division Art Studio course except Art 10 or 30

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

(a) Ancient Egyptian Art: Art History 172A, 172B, 173, 175
(b) East Asian Art: Art History 163A, 163B, 163C, 163D, 164
(c) Islamic Art: Art History 120A, 125, 156
(d) European Art before 1700: Art History 178B, 178C, 178D
(e) Western Art 1700-1900: Art History 110, 130, 168, 182A, 183A, 183B, 188A, 188B, 188C
(f) Art after 1900: Art History 110, 148, 163D, 183C, 184, 185, 186, 187, 189

Undergraduate Seminar Art History 190A-L

Electives. Any additional upper-division Art History courses to be chosen in consultation with the major adviser. Elective course substitutions may be made with the consent of the major adviser.

Total Units for the Major: 60

Emphasis in Architectural History

Art History

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 area or as electives: Art History 25, 110, 120A, 155, 163A, 168, 172A, 172B, 173, 175, 176A, 176B, 176C, 178B, 178C, 178D, 182A, 188B.

Graduate student seminar requirement (Art History 190A-L) through an architectural topic is highly recommended.

Minor Program Requirements:

UNITS

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.

Pre-Fall 2010 General Education (GE): Arts and Humanities;
Fall 2010 General Education (GE): American Cultures; Domestic Diversity;
Spring 2011 General Education (GE): Scientific; Writing Experience
Pre-Fall 2011 General Education (GE): ArtHum-Arts and Humanities; SciEng-Science and Engineering; SocSci-Social Sciences; DivDom-Diversity; Wrt-Writing Experience
Quarter Offered: F-S; W-F; Spring, Summer; 2017-2018 offering in parentheses

Fall 2011 and on Revised General Education (GE): AH-Arts and Humanities; SE-Science and Engineering; SS-Social Sciences; ACGH-American Cultures; DD-Domestic Diversity; DL-Discipline; SL-Scientific; VL-Visual; WC-World Cultures; WE-Writing Experience

Applied Physics

See Physics, on page 503.

Aquaculture

See Animal Biology, on page 160;
Animal Science, on page 162;
Applied Biological Systems Technology, on page 174; and
Wildlife, Fish, and Conservation Biology, on page 587.
Upper Division

100. Methods of Art History (4)
Extensive writing or discussion—3 hours; term paper. Prerequisite: prior completion of two-division Art History courses recommended. Methods of art historical research and analysis, and general issues in critical thought. Writing skills appropriate to a range of art-historical exposition. Offered irreg. GE credit: ArtHum, Div|AH, VL, WE.—Ruda

110. Cultural History of Museums (4)
Lecture/discussion—3 hours; term paper. Evolution of museums in the western world from the "cabinet of curiosities" of sixteenth-century Europe to the modern "art center." The changing motives behind collecting, exhibiting, and interpretation of objects. Attention to museums' historical legacies and continuing philosophical dilemmas. Offered in alternate years. GE credit: ArtHum, Writ|AH, VL, WE.—Strazdes

120A. Art, Architecture, and Human Rights (4)
Lecture/discussion—4 hours. Study of human rights as they relate to art, architecture, and cultural heritage. Examines museums, art collections, and cultural-heritage management, their relation to the cultural prerogatives of communities and indigenous groups, and provoke cultural damage during war and conflict. [Same course as Human Rights 120A(4)] Offered in alternate years. GE credit: ArtHum or SocSci|AH or SS, DD, VL, W, WE.—Watenpaugh

130. Landscape, Nature, and Art (4)
Lecture—3 hours; term paper. Interpretation of the natural world in the western world 1600-1900, with perspectives on the present; landscape painting, ideology of picturesque and romantic landscape art of travel, reshaping the land as art; dialogues between art and science; nature as national identity. GE credit: ArtHum | AH, VL, W, WE.

148. Theory and Criticism: Painting & Sculpture (4)
Lecture—3 hours; term paper. Prerequisite: Art Studio 5 or 7 recommended. Study of forms and symbols in historic and contemporary masterpieces. [Same course as Art Studio 148(4)] Offered in alternate years. GE credit: ArtHum, Writ|AH, VL, WE.—Pardee

150. Arts of Subsaharan Africa (4)
Lecture/discussion—3 hours; term paper. Traditional arts and crafts of subsaharan Africa from prehistoric times to the present; the role of art in African cultures; nature, cycles of life, and religion; art as expression of power; sculpture and culture in West and Central Africa; Colonialism and collecting. Offered irregularly. GE credit: ArtHum, Div|AH, VL, W, WE.

151. Arts of the Indians of the Americas (4)
Lecture/discussion—3 hours; term paper. Development of art in North America, emphasizing ancient Mexico, South American relationships and parallels. Recent and current cultural crafts from Alaska to Chile. Offered irregularly. GE credit: ArtHum, Div|AH, VL, WE.

152. Arts of Oceania and Prehistoric Europe (4)
Lecture—3 hours; term paper. Traditional arts of aboriginal Australia, Melanesia, Polynesia, and Micronesia, as seen in their cultural contexts. Prehistoric art of Europe and the Near East. GE credit: ArtHum, Div|AH, VL, WE.

154. The Hindu Temple (4)
Lecture—3 hours; term paper. Comparative history of architecture and symbolism of the Hindu Temple in India, Southeast Asia and the United States. Attention to the temple as expression of religious knowledge, political authority, and cultural heritage through the lens of colonialism and postcolonialism. [Same course as Religious Studies 154(4)] Offered in alternate years. GE credit: ArtHum or SocSci|AH or SS, VL, W, WE.—Venkatesan

155. The Islamic City (4)
Lecture—3 hours; term paper. Prerequisite: course 125 recommended. Introduction to the urban history of the Islamic world. Includes critical study of the history of the Islamic city, development of urban form, institutions and rituals, and analysis of selected themes. GE credit: ArtHum, Div; Writ|AH, VL, WE.—Watenpaugh

156. Arts of the Islamic Book (4)
Lecture—3 hours; term paper. Prerequisite: prior completion of course 1E recommended. Critical study of the arts of the luxury book in the pre-modern Islamic world. Reproduction in the relation- ship of word and image, the discipline of calligraphy, aesthetics and representation in Persianate painting. Offered in alternate years. GE credit: ArtHum, Div|AH, VL, W, WE.—Watenpaugh

163A. Chinese Art (4)
Lecture/discussion—4 hours. Thematic and chrono- logical examination of 3000 years of Chinese art and culture from Neolithic through Tang Dynasty (7th c. CE). Study of ceremonial and secular objects manifesting folk beliefs and belief systems of ancestor worship, Buddhism, Daoism, and Confu- cianism. Offered in alternate years. GE credit: ArtHum, Div|AH, VL, W, WE.—Burnett

163B. Chinese Painting (4)
Lecture/discussion—4 hours. Thematic and chrono- logical examination of Chinese painting and culture from the Tang Dynasty (7th c. CE) through the early 20th century. Issues considered include painaitng (made to support or protest regimes), art and the market, art and individual expression. Offered in alternate years. GE credit: ArtHum, Div|AH, VL, W, WE.—Burnett

163C. Early Modern Chinese Painting (4)
Lecture/discussion—4 hours. Topics in Chinese Art History, 13th-19th century. Study of issues pertaining to sell and society; gender and gendering; religion and philosophy; political engagement and protest; economy and the market; the effects created by peri- ods of transition on visual expression. Offered in alternate years. GE credit: ArtHum, Div|AH, VL, W, WE.—Burnett

163D. Art from China 1900 to the Present (4)
Lecture/discussion—4 hours. Prerequisite: course 163B or consent of instructor. Forms of modern and avant-garde expression from China's industrialization to the 21st century. Interactions of art and politics, individual and state, art for the free market versus art for the state, expressions of modernity; China on the world stage, the effects created by periods of transition on visual expression. Offered in alternate years. GE credit: ArtHum, Div|AH, VL, W, WE.—Burnett

164. The Arts of Japan (4)
Lecture/discussion—3 hours; term paper. Japanese painting, architecture, decorative arts, and related her- itage, ancient times to the 20th century in literary, political, intellectual, and spiritual contexts; impact of Japanese art on the West and the West's transfor- mative impact on Japan's opening to the 19th cen- tury. GE credit: ArtHum, Div|AH, VL, W, WE.

168. Great Cities (4)
Lecture—3 hours; term paper. Transformation in architecture and urban form in Paris, London, and Vienna in the context of decorative arts, post-modernism, and economic systems as well as very different cultural traditions, concentrating on the years 1830-1914. Offered in alternate years. GE credit: ArtHum, Writ|AH, VL, WE.—Burnett

172A. Early Greek Art and Architecture (4)
Lecture—3 hours; term paper. Examination of the origin and development of the major monuments of Greek art and architecture from the eighth century to the mid-fifth century B.C. [Same course as Classics 172A] Offered in alternate years. GE credit: ArtHum, Writ|AH, VL, WE.—Rolle

172B. Later Greek Art and Architecture (4)
Lecture—3 hours; term paper. Study of the art and architecture of later Classical culture in Greece, from the mid-fifth century to the first century...
1900G. Undergraduate Seminar in Art History: Japanese (4)
Lecture/discussion—3 hours; term paper. Prerequisite: Art History major, minor, or other significant training in Art History recommended. Class size limited to 25 students; for majors, minors, other advanced students. Study of a broad problem or the theoretical issue in art, architecture, or material culture. Intensive reading, discussion, research, writing. May be repeated twice for credit when topic differs. GE credit: ArtHum | AH, OL, VL, WE.

190H. Undergraduate Seminar in Art History: Modern-Contemporary (4)
Lecture/discussion—3 hours; term paper. Prerequisite: Art History major, minor, or other significant training in Art History recommended. Class size limited to 25 students; for majors, minors, other advanced students. Study of a broad problem or the theoretical issue in art, architecture, or material culture. Intensive reading, discussion, research, writing. May be repeated twice for credit when topic differs. GE credit: ArtHum | AH, OL, VL, WE.

190I. Undergraduate Seminar in Art History: 17th-18th Century (4)
Lecture/discussion—3 hours; term paper. Prerequisite: Art History major, minor, or other significant training in Art History recommended. Class size limited to 25 students; for majors, minors, other advanced students. Study of a broad problem or the theoretical issue in art, architecture, or material culture. Intensive reading, discussion, research, writing. May be repeated twice for credit when topic differs. GE credit: ArtHum | AH, OL, VL, WE.

190K. Undergraduate Seminar in Art History: 19th Century (4)
Lecture/discussion—3 hours; term paper. Prerequisite: Art History major, minor, or other significant training in Art History recommended. Class size limited to 25 students; for majors, minors, other advanced students. Study of a broad problem or the theoretical issue in art, architecture, or material culture. Intensive reading, discussion, research, writing. GE credit: ArtHum | AH, OL, VL, WE.

190L. Undergraduate Seminar in Art History: Architecture & Heritage (4)
Lecture/discussion—3 hours; term paper. Prerequisite: Art History major, minor, or other significant training in Art History recommended. Class size limited to 25 students; for majors, minors, other advanced students. Study of a broad problem or the theoretical issue in art, architecture, or material culture. Intensive reading, discussion, research, writing. GE credit: ArtHum | AH, OL, VL, WE.

191. Internship (1-4)
Internship—3-12 hours. Prerequisite: graduate student; consent of instructor. Restricted to graduate students in Art History only. Supervised internship at professional art or cultural institution including museums, galleries, archives, government offices, visual resources libraries, etc. May be repeated up to eight units for credit. Offered irregularly. (S/U grading only.)

192. Internship—1-12
Internship—term paper or catalogue. Supervised program of internships at professional art institutions such as museums, galleries, and art archives including collections of slides and photographs. May be repeated twice for credit when topic differs. (P/NP grading only.)

194H. Special Study for Honor Students (4)
Independent study—12 hours. Prerequisite: course 190 or the equivalent, as determined by the major advisor. Open only to students in the Art History Honors Program. Independent study of an art historical problem culminating in the writing of an honors thesis under the supervision of a faculty guidance committee. (P/NP grading only.)

198. Directed Group Study (1-5)
(P/NP grading only.)

199. Special Study for Advanced Undergraduates (1-5)
(P/NP grading only.)

Graduate

200A. Visual Theory and Interpretive Methods (6)
Discussion—3 hours; extensive writing. Close study of selected recent developments in interpretive methodology used by art historians and other analysts of visual culture and the place of those developments within the history of art and the larger field of social, cultural and historical analysis. May be repeated one time for credit. —Roller, Watenaugh

200B. Research and Writing Methods in Art History (4)
Discussion—3 hours; term paper. Restricted to graduate students in art history. Development of the research, writing, and editing skills necessary for producing publishable work. Focus on research tools used by art historians, including digital humanities scholarship, from question framing and organization of ideas to writing clear, effective prose. —Burnett, Strazdes

200C. Thesis Writing Colloquium (1)
Discussion—1.5 hour; autotutorial. Prerequisite: course 2008, taken by all Art History M.A. students in their first year. Restricted to graduate students in Art History. Meeting concurrently with course 2008, the colloquium provides a supportive, supervised environment for second-year Art History graduate students drafting masters’ theses. Offers a forum for technical discussions, discussion of writing/editing procedures, and peer review of writing in progress. (S/U grading only.) —Burnett, Strazdes

210. Museums, Art Exhibitions and Culture (4)
Seminar—3 hours; extensive writing or discussion; term paper. Prerequisite: graduate status in art history or an allied field. Class size limited to 20 students. Issues accompanying the evolution and function of museums from cabinets of curiosities in sixteenth-century Europe to modern art centers. Examination of divergent motives behind collecting, exhibiting, and interpretation of objects. Investigation of museums’ historical legacies and continuing philosophical and ideological questions. Offered in alternate years. GE credit: ArtHum, Writ—Strazdes

250. Problems in Art Historical Research (4)
Seminar—3 hours; term paper. Major topics in art historical research, emphasizing special methods of investigation, and of historical and critical analysis. May be repeated for credit.

254. Seminar in Classical Art (4)
Seminar—3 hours; term paper. Selected areas of special study in classical art of the Greek and Roman tradition. Course may be repeated for credit with consent of instructor. —Burnett

263. Seminar in Chinese Art (4)
Seminar—3 hours; term paper. Selected areas of special study in Chinese Art. May be repeated for credit with consent of instructor. —Burnett

276. Seminar in Medieval Art (4)
Seminar—3 hours; term paper. Selected areas of special study in medieval art from Early Christian to late Gothic. May be repeated for credit with consent of instructor. —Burnett

278. Seminar in Italian Renaissance Art (4)
Seminar—3 hours; term paper. Selected areas of special study in Italian art from the fourteenth to the sixteenth century. May be repeated for credit with consent of instructor. Offered in alternate years.

283. Seminar in Visual Culture and Gender (4)
Seminar—3 hours; term paper. Selected areas of special study in the relationship between visual culture and gender in Europe and America from 1750 to present. May be repeated for credit with consent of instructor. Offered in alternate years.

288. Seminar in European and American Architecture (4)
Seminar—3 hours; term paper. Exploration of selected topics in European and American architectural history with concentration on the Modern Period. May be repeated for credit with consent of instructor. —Sadler, Strazdes

290. Special Topics in Art History (4)
Seminar—3 hours; term paper. Special research seminar in the theory or methods of Art History, or in a period of Art History. Topic will vary depending on the interests of the instructor or students. May be repeated for credit when topic differs and with consent of instructor. Offered irregularly.

292. Internship—1-4
Internship—3-12 hours. Prerequisite: graduate student; consent of instructor. Restricted to graduate students in Art History only. Supervised internship at professional art or cultural institution including museums, galleries, archives, government offices, visual resources libraries, etc. May be repeated up to eight units for credit. Offered irregularly. (S/U grading only.)

298. Directed Group Study (1-5)
(S/U grading only.)

299. Individual Study (1-6)
(S/U grading only.)

Professional

Note: Various of the below courses are not offered each year.

300. Introduction to Teaching Art History for Teaching Assistants (1)
Discussion—1 hour. Designed for teaching assistants with emphasis on problems and procedures encountered by teachers of undergraduate art history. (S/U grading only.)

396. Teaching Assistant Training Practicum (4)
Seminar—2 hours; Practice—10 hours. Prerequisite: graduate standing. Principles and techniques of the effective teaching of undergraduate courses in the history of art. May be repeated for credit as often as the student is awarded a TA-ship. (S/U grading only.)

Professional

401. Museum Training: Curatorial Principles (4)

402. Museum Training: Exhibition Methods (4)
Seminar—3 hours; exhibition. Approved for graduate degree credit. History of exhibition methods in private and public collections. Comparisons of different types of museums and their exhibition problems. Lighting and techniques of display with emphasis on actual design. Experimentation with unusual presentation forms.

Art Studio

[College of Letters and Science]
Heanne Pardee, M.F.A., Chairperson of the Department
Department Office. 101 Art Building 530-752-0105; http://art.ucdavis.edu

Faculty
Tom Bills, M.F.A., Professor Robin Hill, B.F.A., Professor Darrin Martin, M.F.A., Associate Professor Heanne Pardee, M.F.A., Professor Lucy Puls, M.F.A., Professor