

340 / Programs and Courses

I. Italian Neorealism; T. Third World Cinema; V. Global Perspectives on the Vietnam War. Cross-listed with CPLT 173 (E-Z). *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 174 (E-Z). Comparative Studies in Film (4)

Lecture, 3 hours; screening, 3 hours. Prerequisite(s): upper-division standing or consent of instructor. Considers film in the context of the other arts. Compares the treatment of various themes or problems in film and other media. E. Film and Literature in the Avant-Garde. Cross-listed with CPLT 174 (E-Z). *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 175. Advanced Digital Imaging (4) Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): ART 007/MCS 007; knowledge of Macintosh interface and Adobe Photoshop. Builds upon techniques initiated in ART 007/MCS 007. Emphasizes the use of computer and electronic technology as a tool for making art. Addresses issues related to making art and the cultural implications of digital technology. Includes lectures by visiting artists, field trips, and critiques of work in progress. Course is repeatable to a maximum of 8 units. Cross-listed with ART 170. *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 176. Pictorialism to New Media: A History of Twentieth-Century Photography (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): AHS 017C or upper-division standing or consent of instructor. A study of photographic practices from 1900 to the present. Topics include pictorialist "art" photographs created around 1900, the subsequent refinement of styles and content in modernism, and the expansion of photographic practices into the digital realm. Examines technological, conceptual, aesthetic, economic, and social issues. Cross-listed with AHS 176. *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 178. Berlin Metropolis in Literature, Film, Music, and Art (4) Lecture, 3 hours; screening, 3 hours. Prerequisite(s): upper-division standing or consent of instructor. Introduction to the metropolis Berlin as gateway between the East and West. Explores topography of the city through film, art, music, and literary texts. A study of Berlin's dramatic transformations as a microcosm of Germany and Europe's troubled history in the twentieth century. Course is conducted in English. Cross-listed with AHS 120, CPLT 110B, EUR 110B, and GER 110B. *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 179. Gender, Media, and Latin America (5) Lecture, 3 hours; screening, 3 hours; outside research, 3 hours. Prerequisite(s): MCS 020 or upper-division standing or consent of instructor. Explores the way Latin Americans have thought of and represented gender across a variety of media, including essays, film, novel or short story, and performance. Compares the possibilities and limitations of these media for representing gender in the Latin American context. Cross-listed with LNST 109, SPN 179, and WMST 179. *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 181. Existentialism in Literature, Film, and Culture (4) Lecture, 3 hours; screening, 2 hours; outside research, .5 hours; term paper, .5 hours. Prerequisite(s): upper-division standing or consent of instructor. Explores the Existentialist movement in literature, film, and culture. Texts range from essays, plays, and novels to documentary and fiction film. Topics include choice, subjectivity, and alienation.

Cross-listed with CPLT 181 and FREN 181. *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 182. From Expressionism to Epic Theatre: Benn, Brecht, Kafka, and the Bauhaus (4) Lecture, 3 hours; screening, 3 hours. Prerequisite(s): upper-division standing or consent of instructor. Introduction of the German avant-garde of the twentieth century. Explores expressionism, New Objectivity, the Bauhaus movement, the manifestation of an anti-art in dadaism, and Epic Theatre. Studies works of Franz Kafka in the context of his implicit criticism of the avant-gardist movements of his time. Course is conducted in English. Cross-listed with AHS 121, CPLT 138, EUR 138, and GER 138. *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 183 (E-Z). Studies in French and Francophone Cinema (4) Lecture, 3 hours; screening, 3 hours. Prerequisite(s): upper-division standing or consent of instructor. Studies in the cinema of France and other Francophone countries. Focus is on specific themes in relation to French-language film. Knowledge of French is not required. F. Literature, Cinema, and Culture of the Francophone World; W. Women Directors. Cross-listed with FREN 185 (E-Z). *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 184. Japanese Film and Visual Culture (4) Lecture, 2 hours; discussion, 1 hour; term paper, 3 hours. Prerequisite(s): upper-division standing or consent of instructor. Investigates popular visual culture in Japan primarily through film, from the early masters to contemporary directors. May draw additional material from fields such as theatre, television, visual art, architecture, and illustrated fiction. All materials are read or viewed in English. Course is repeatable to a maximum of 12 units. Cross-listed with AST 184 and JPN 184. *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 185. Imagining the Nation: Film and Media in Latin America (4) Lecture, 3 hours; screening, 3 hours. Prerequisite(s): MCS 020 or upper-division standing or consent of instructor. Study of the role of media and film in creating a national imaginary in Latin America. Focus is on one region or nation—such as the Andes, the Caribbean, Mexico, Argentina, or Chile—relating local history to the global context. Course is repeatable as topics change to a maximum of 8 units. Cross-listed with LNST 105 and SPN 185. *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 186. Media and Movements: Film, Video, Photography, and the Visual Arts (4) Lecture, 3 hours; screening, 3 hours. Prerequisite(s): AHS 017C or upper-division standing or consent of instructor. Focuses on key cultural movements or developments in Europe and the United States over the past century. Provides a thematic history of the avant-garde and experimental arts, including painting, sculpture, photography, video, film, performance, installation, and new media art. Cross-listed with AHS 186. *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

MCS 187. Visual Culture and Art History (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): AHS 017A or AHS 017B or AHS 017C or AHS 021/URST 021 or upper-division standing or consent of instructor. Examines the broader concept of visual culture as it relates to the history of the visual arts. Focuses on four conceptual areas: visuality, identity, media culture, and politics/ethics. Cross-listed with AHS 187.

Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.

MCS 190. Special Studies (1-5) Consultation, 1 hour; individual study, 3-12 hours; term paper or project, 1-3 hours. Prerequisite(s): upper-division standing; consent of instructor and program chair. Faculty-driven individual study to meet special curricular needs. Requires a final paper or creative project. Course is repeatable to a maximum of 15 units. *See the Student Affairs Office in the College of Humanities, Arts, and Social Sciences for breadth requirement information.*

MCS 198-I. Individual Internship in Media and Cultural Studies (1-4) Consultation, 1 hour; internship, 2-8 hours; individual study, 1-3 hours; term paper, 1-3 hours. Prerequisite(s): upper-division standing; consent of instructor and the Film and Visual Culture Chair. An internship in a professional organization or with an individual to gain skills and experience for a career in the visual media. Requires a final paper or a creative project. Course is repeatable to a maximum of 12 units. *Fulfills the Humanities requirement for the College of Humanities, Arts, and Social Sciences.*

Graduate Courses

MCS 290. Directed Studies (1-6) Outside research, 3-18 hours. Prerequisite(s): graduate standing; consent of instructor and department chair. A directed studies course designed to address special curricular problems. Normally graded Satisfactory (S) or No Credit (NC), but students may petition the instructor for a letter grade if specialized topics are studied. Course is repeatable.

MCS 292. Concurrent Analytical Studies in Media and Cultural Studies (1-4) Outside research, 3-12 hours. Prerequisite(s): graduate standing; consent of instructor and graduate advisor. To be taken concurrently with a 100-series course, but on an individual basis. Limited to research, criticism, and written work. Normally graded Satisfactory (S) or No Credit (NC), but students may petition the instructor for a letter grade if specialized topics are studied. Course is repeatable.

Microbiology

Subject abbreviation: MCBL
College of Natural and Agricultural Sciences

Program Office, 1140 Batchelor Hall
(800) 735-0717 or (951) 827-5913
microbiology.uccr.edu

The Microbiology Graduate Program is not currently accepting new students. For more information, contact the Biological Sciences Graduate Student Affairs Center, 1140 Batchelor Hall, (800) 735-0717.

Professors

James E. Adaskaveg, Ph.D. *Biology, Epidemiology, and Ecology of Plant Pathogenic Fungi* (Plant Pathology)

Michael Allen, Ph.D. *Biology and Ecology Microbial-Plant-Soil Interactions* (Plant Pathology)

Nancy E. Beckage, Ph.D. *Molecular Host-Parasite/Pathogen Interactions* (Entomology/Cell Biology and Neuroscience)

Katherine A. Borkovich, Ph.D. *Fungal Cell and Molecular Biology* (Plant Pathology)

James G. Borneman, Ph.D. *Microbial Ecology of Soil-borne Plant Pathogens* (Plant Pathology)

Wilfred Chen, Ph.D. *President's Chair; Microbial Engineering* (Chemical and Environmental Engineering)

Michael D. Coffey, Ph.D. *Phytophthora Taxonomy and Genetics* (Plant Pathology)

Donald A. Cooksey, Ph.D. *Bacterial Copper Resistance* (Plant Pathology)

David E. Crowley, Ph.D. *Rhizosphere Microbiology; Bioremediation* (Environmental Sciences)

Marc A. Deshusses, Ph.D. *Biodegradation, Biofiltration and Bioremediation of Pollutants* (Chemical and Environmental Engineering)

Shou-Wei Ding, Ph.D. *Molecular Biology of Plant Viruses and Gene Silencing* (Plant Pathology)

J. Allen Dodds, Ph.D. *Molecular Virus-Host Interactions* (Plant Pathology)

Brian A. Federici, Ph.D. *Molecular Biology of Insect Pathogens* (Entomology)

William T. Frankenberger, Ph.D. *Microbial Transformation of Metals and Metalloids* (Environmental Sciences)

Sarjeet S. Gill, Ph.D. *Bacterial Toxic Action* (Cell Biology and Neuroscience)

Howard S. Judelson, Ph.D. *Molecular Genetics of Fungi* (Plant Pathology)

Ashok Mulchandani, Ph.D. *Microbial Engineering, Biosensors, and Biodegradation* (Chemical and Environmental Engineering)

Edward G. Platzer, Ph.D. *Host-Parasite Interactions* (Nematology/Biology)

A.L.N. Rao, Ph.D. *Molecular Plant-Virus Interactions* (Plant Pathology)

Neal L. Schiller, Ph.D. *Human Host-Bacterial Pathogen Interactions* (Biomedical Sciences)

Michael Stanghellini, Ph.D. *Ecology, Epidemiology, and Control of Soil-borne Pathogens* (Plant Pathology)

Marylynn V. Yates, Ph.D. *Water and Wastewater Microbiology* (Environmental Sciences)

Professor Emeritus

Dennis D. Focht, Ph.D. (Plant Pathology)

Major

The Microbiology program participates in the Biological Sciences major. See Biological Sciences, Microbiology Track.

Upper-Division Courses

MCBL 120. Introduction to Plant Pathology (3) F Lecture, 3 hours. Prerequisite(s): BIOL 005A, BIOL 05LA, BIOL 005B, BIOL 005C, CHEM 001C or CHEM 01HC, CHEM 112C, MATH 009B or MATH 09HB, PHYS 002C, PHYS 02LC, BCH 100 or BCH 110A, one course in statistics; or consent of instructor. An introduction to the study of plant diseases. Topics include diseases and disease-causing agents, host-pathogen interaction during disease development, and strategies for disease management. An optional, separate laboratory is offered. Cross-listed with BIOL 120 and PLPA 120. **Stanghellini**

MCBL 120L. Introduction to Plant Pathology Laboratory (1) F Laboratory, 4 hours. Prerequisite(s): BIOL 005A, BIOL 005B; concurrent enrollment in BIOL 120/MCBL 120/PLPA 120 or consent of instructor; BIOL 121/MCBL 121 and BIOL 124/MCBL 124 recommended. Covers fundamentals in the use of laboratory instruments and techniques for the detection, isolation, and identification of representative infectious agents that cause disease in plants. Cross-listed with BIOL 120L and PLPA 120L. **Stanghellini**

MCBL 121. Introductory Microbiology (4) F, W Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): BIOL 005A, BIOL 05LA, BIOL 005B, BIOL 005C, CHEM 001C or CHEM 01HC, CHEM 112C, MATH 009B or MATH 09HB, PHYS 002C, PHYS 02LC, BCH 100 or BCH 110A (BCH 100 or BCH 110A may be taken concurrently); or consent of instructor. An intensive introduction to the fundamental physiology and molecular biology of bacteria and viruses. Covers evolutionary origins of metabolic diversity, bacterial and viral molecular genetics, and an introduction to microbial pathogenesis. Cross-listed with BIOL 121.

Borkovich, Ma

MCBL 121L. Microbiology Laboratory (3) W, S Lecture, 1 hour; laboratory, 6 hours. Prerequisite(s): BIOL 121/MCBL 121 with a grade of "C-" or better. Laboratory exercises in diagnostic bacteriology, basic virology, and epidemiology. Includes fundamental quantitative and diagnostic microbiological procedures, basic mechanisms of microbial genetic exchange, and a project examining bacterial epidemiology. Cross-listed with BIOL 121L. **Borneman, Coffey**

MCBL 122. Food Microbiology (4) S Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): BIOL 121/MCBL 121 with a grade of "C-" or better; BIOL 121L/MCBL 121L. Covers spoilage and preservation of food; food quality and indicator organisms; the role of microorganisms in the production of dairy goods and fermented beverages; food-borne pathogens and microbiological production of toxins; and classical and modern molecular methods for detection of food microorganisms. Cross-listed with BIOL 122. **Focht**

MCBL 123. Introduction to Comparative Virology (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): BIOL 005A, BIOL 05LA, BIOL 005B, BIOL 005C, CHEM 001C or CHEM 01HC, CHEM 112C, MATH 009B or MATH 09HB, PHYS 002C, PHYS 02LC, BCH 100 or BCH 110A, one course in statistics; or consent of instructor. Considers viruses as infectious agents of bacteria, plants, and animals (vertebrates and invertebrates). Compares the major groups of viruses to each other with respect to their biological and biochemical properties, molecular and genetic characteristics, and modes of replication. Cross-listed with BIOL 123 and PLPA 123. **Ding, Rao**

MCBL 124. Pathogenic Microbiology (4) S Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): BIOL 121/MCBL 121 with a grade of "C-" or better or consent of instructor. An intensive introduction to the fundamental physiology and molecular biology of bacteria and viruses. Covers research strategies for examining microbial pathogenic mechanisms. Cross-listed with BIOL 124. **Cooksey, Gill**

MCBL 133. Environmental Microbiology (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): BIOL 005A, BIOL 05LA, BIOL 005B, BIOL 005C; or consent of instructor. Introduction to nonpathogenic microorganisms in the environment. Topics include an introduction to microbial biology and microbial and metabolic genetic diversity; methods; symbiotic interactions; biofilms; and geomicrobiology and biogeochemistry. Explores life in extreme environments and the effects of the physical and chemical environment on microbes. Cross-listed with ENSC 133 and SWSC 133.

MCBL 141. Public Health Microbiology (4) Lecture, 4 hours. Prerequisite(s): BIOL 002 or both BIOL 005A and BIOL 05LA; BIOL 003 or BIOL 005B; upper-division standing; or consent of instructor. Introduction to transmission of human pathogenic microorganisms through environmental media, including drinking water, wastewater, and air. Topics include characterization of environmentally transmitted pathogens,

microbial risk assessment, sampling and detection methods for microorganisms in environmental samples, waterborne disease outbreaks, recycling or reuse of wastewater, microbial regulations and standards, and indoor air microbiology. Cross-listed with ENSC 141 and SWSC 141. **Yates**

MCBL 188. Microbiology Diagnostics (4) Lecture, 2 hours; laboratory, 6 hours. Prerequisite(s): BIOL 121/MCBL 121, BIOL 121L/MCBL 121L. Covers microscopic and molecular diagnostic procedures used in a clinical/forensics microbiology laboratory. Utilizes in a research lab setting selected live microbial material (including bacteria and fungi). Addresses techniques employed in the processing and identification of pathogenic microbes, including safe laboratory practices for working with biohazards. **Coffey**

MCBL 197. Research for Undergraduates (1-4) directed research, 3-12 hours. Prerequisite(s): consent of instructor; upper-division standing. Individual research in microbiology performed under the guidance of the staff or faculty. Letter grades are assigned to students presenting a research paper; other students are graded Satisfactory (S) or No Credit (NC). Course is repeatable to a maximum of 9 units.

Graduate Courses

MCBL 201. Functional Diversity of Prokaryotes (3) W Lecture, 3 hours. Prerequisite(s): BCH 110A, BCH 110B, BIOL 121/MCBL 121; or equivalents; or consent of instructor. In-depth coverage of bacterial and archaeal bioenergetics, cell structure, diversity of metabolism, regulation of metabolism, growth, and biosynthesis, and cell-cell interactions between prokaryotes and eukaryotes. Project involves analysis of metabolic pathways from complete, annotated, prokaryotic genome sequences. Cross-listed with ENSC 205 and PLPA 201.

MCBL 205. Signal Transduction Pathways in Microbes and Plants (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): graduate standing in the biological sciences, BIOL 107A or BIOL 113 or BIOL 114 or CBNS 101; or consent of instructor. Advanced topics in signal transduction pathways that regulate growth and development in plants and prokaryotic and eukaryotic microbes. Areas covered include two-component regulatory systems; quorum sensing; signaling via small and heterotrimeric G proteins; mitogen-activated protein kinase cascades; cAMP signaling; photoreceptors; plant hormone signaling; responses to low-oxygen stress; calcium signaling; and plant pathogenesis. Cross-listed with BCH 205, BPSC 205, CMDB 205, GEN 205, and PLPA 205.

MCBL 206. Gene Silencing (3) Lecture, 2 hours; discussion, 1 hour. Prerequisite(s): graduate standing, BIOL 107A or CBNS 101; or consent of instructor. An in-depth coverage of mechanisms, functions, and applications of RNAi and related gene regulatory pathways guided by small RNAs such as siRNAs and miRNAs in plants and animals. Cross-listed with CMDB 206 and GEN 206.

MCBL 210. Molecular Biology of Human Disease Vectors (3) Lecture, 2 hours; seminar, 1 hour. Prerequisite(s): consent of instructor. Covers the molecular aspects of vectors transmitting most dangerous human diseases. Involves lectures and student presentations about current issues in molecular biology and genomics of vector insects and pathogens they transmit. May be taken Satisfactory (S) or No Credit (NC) with consent of instructor and graduate advisor. Cross-listed with CMDB 210 and ENTM 210.

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MCBL 211. Microbial Ecology (3) S, Odd Years

Lecture, 3 hours. Prerequisite(s): graduate standing or consent of instructor. Application of ecological principles to microbial communities. Emphasizes methods for analysis of diversity and community structure and statistical methods relating genetic and biochemical fingerprints to functional properties. Case studies explore applications for agriculture, disease biocontrol, and bioremediation of environmental contaminants. Cross-listed with SWSC 211. **Borneman, Crowley**

MCBL 221. Microbial Genetics (4) W Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): BCH 110C or BIOL 107A; BIOL 102. In-depth coverage of the genetics of microbes with emphasis on the primary data and the foundation of modern techniques using *Escherichia coli* and other prokaryotic systems. Includes genome organization, plasmids, restriction-modification systems, mutation, transposable elements, regulation of gene expression, viruses, recombination, repair, and responses to stress. Cross-listed with BIOL 221 and PLPA 226. **Borkovich**

MCBL 241. Special Topics (2) Lecture, 2 hours. Prerequisite(s): graduate standing or consent of instructor. Oral presentations and intensive small-group discussion of selected topics in each faculty member's area of specialization. Course content emphasizes recent advances in the special topic area and varies accordingly. Graded Satisfactory (S) or No Credit (NC). Course is repeatable. Cross-listed with PLPA 241.

MCBL 250. Seminar in Microbiology (1) S Seminar, 1 hour. Prerequisite(s): graduate standing. Formal seminars by graduate students, faculty, and invited scholars on selected topics in microbiology. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

MCBL 262. Seminar in Molecular Biology and Genomics of Disease Vectors (1) Seminar, 1 hour. Prerequisite(s): graduate standing or consent of instructor. Seminar series, sponsored by the Center for Disease-Vector Research at the Institute for Integrative Genome Biology, provides an opportunity for graduate students to discuss current issues of molecular biology and genomics of vector insects and pathogens they transmit with guest speakers. Graded Satisfactory (S) or No Credit (NC). Course is repeatable. Cross-listed with ENTM 262.

MCBL 290. Directed Studies (1-6) Outside research, 3-18 hours. Prerequisite(s): graduate standing; consent of instructor and graduate advisor. Experimental or literature studies on specifically selected topics conducted under the direction of a faculty member. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

MCBL 297. Directed Research (1-6) Outside research, 3-18 hours. Prerequisite(s): graduate standing. Directed research in microbiology performed prior to advancement to candidacy in preparation for thesis or dissertation projects. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

MCBL 299. Research for Thesis or Dissertation (1-12) Outside research, 3-36 hours. Prerequisite(s): graduate standing. Original research in the area selected for the advanced degree. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

Middle East and Islamic Studies Minor

Subject abbreviation: MEIS
College of Humanities, Arts, and Social Sciences

Feryal Cherif, Ph.D., Chair
Department Office, 2230 Watkins Hall
(951)827-5509; cherif@ucr.edu

Committee in Charge

Muhammad Ali, Ph.D. (Religious Studies)
Ebru Erdem, Ph.D. (Political Science)
Sherine Hafez, Ph.D. (Women's Studies)
Erith Jaffe-Berg, Ph.D. (Theatre)
Ruhi Khan, Ph.D. (Media and Cultural Studies)
Benjamin Liu, Ph.D. (Hispanic Studies)
Susan Ossman, Ph.D. (Anthropology)
Jeff Sacks, Ph.D. (Comparative Literature & Foreign Languages)
Fariba Zarinabaf, Ph.D. (History)
Stephen E. Cullenberg, Ph.D.
Dean, College of Humanities, Arts, and Social Sciences, ex officio

Administered through the Interdisciplinary Studies Office, the minor in Middle East and Islamic Studies offers a broad course of interdisciplinary and theoretically informed study. Students draw upon the range of materials covered in departments including Anthropology, Comparative Literature, Creative Writing, Hispanic Studies, History, Media and Cultural Studies, Religious Studies, Theatre, Political Science, and Women's Studies, as they gain critical knowledge of the texts, practices, institutions, and histories of the Middle East and Islamic traditions in diverse, multilingual, and global contexts. The study of at least one language, which pertains to students' areas of interest, is strongly encouraged but not required.

- Select two from the required courses (8 units)
ARLC 001, GBST 169/ANTH 169, HIST 121, POSC 156, RLST 111, RLST 113, WMST 168
- Select four from the elective courses (16 units)
 - Arabic Literatures and Cultures
ARLC 120, ARLC 151/CPLT 151, ARLC 152/CPLT 152, ARLC 154/CPLT 154/PHIL 154, ARLC 156/CPLT 156
 - Anthropology
ANTH 136/SEAS 136, ANTH 1401
 - Asian Studies
AST 167/CPLT 167
 - Comparative Literature
CPLT 153
 - History
HIST 125, HIST 126
 - Middle East and Islamic Studies
MEIS 199

- Political Science
POSC 107, POSC 120, POSC 133, POSC 152
- Religious Studies
RLST 116, RLST 124K, RLST 149, RLST 150, RLST 151, RLST 155/PHIL 155
- Theater
THEA 191 (E-Z) (J)
- Women's Studies
WMST 151, WMST 162

See Minors under the College of Humanities, Arts, and Social Sciences in the Colleges and Programs section of this catalog for additional information on minors.

Upper-Division Course

MEIS 199. Senior Research (4) Consultation, 1 hour; extra reading, 6 hours; term paper, 3 hours. Prerequisite(s): senior standing; consent of Middle East and Islamic Studies Steering Committee chair. Directed original research in topics related to the Middle East, Islamic studies, or Islamic cultures. Administered under the direction of members of the Middle East and Islamic Studies Steering Committee or an approved faculty member.

Music

Subject abbreviation: MUS
College of Humanities, Arts, and Social Sciences

Deborah A. Wong, Ph.D., Chair
Department Office, INTS 3110
(951) 827-3726; music.ucr.edu

Professors

Byron Adams, D.M.A.
Paulo C. Chagas, Ph.D.
Walter Aaron Clark, Ph.D.
Deborah A. Wong, Ph.D.

Professors Emeriti

Frederick K. Gable, Ph.D.
Anthony F. Ginter, Ph.D.
Donald C. Johns, Ph.D.

Associate Professors

Rogério Budasz, Ph.D.
Timothy Labor, Ph.D. (Media and Cultural Studies)
René T.A. Lysloff, Ph.D.
Leonora Saavedra, Ph.D.

Assistant Professor

Jonathan Ritter, Ph.D. **

Lecturers

Janet Beazley, D.M.A. Collegium Musicum
Barbara A. Bennett, D.M.
Edward Bruner, D.M.A. Choral Society
Ruth Charloff, D.M.A. Orchestra and Chamber Singers
Tagumpay de Leon, M.S. Rondalla Ensemble
Willie F. Helms, M.A. Jazz and Concert Band
Rev. Shuichi Thomas Kurai, B.S., Taiko Ensemble
Audrey J. Lamprey, M.M.
Frances C. Moore, M.A. Chamber Music
Laura Sobrino, B.A. Mariachi Mexicat

Lecturers in Vocal and Instrumental Instruction

Kimberly K. Amin, M.M. *Piano*
Ed Best, B.A., *Scottish Drum*