

342 / Programs and Courses

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
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(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.

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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*