

## 320 / Programs and Courses

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.

## Music

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

Walter Aaron Clark, Ph.D., Chair  
Department Office, 121 Arts  
(951) 827-3343; [music.ucr.edu](http://music.ucr.edu)

### Professors

Byron Adams, D.M.A.  
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

Timothy Labor, Ph.D.

René T.A. Lysloff, Ph.D.  
Leonora Saavedra, Ph.D.

### Assistant Professors

Paulo C. Chagas, Ph.D.  
Renee Coulombe, Ph.D.  
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 Mexicatl

### Lecturers in Vocal and Instrumental Instruction

Kimberly K. Amin, M.M. *Piano*  
Catherine Card, M.M. *Voice*  
William Casale, Ph.D. *Double Bass Viol*  
Ralph Cato, D.M.A. *Voice*  
David W. Christensen, M.M. *Organ and Carillon*  
Robert D. Dominguez, *Percussion*  
Timothy Emmons, B.A. *Double Bass*  
Lisa Geering, B.A. *Oboe*  
Larry Flahive, *Jazz Piano*  
William Hanrahan, M.A. *Voice*  
Eileen Holt, M.M. *Flute*  
Abhiman Kaushal, *Tabla*  
Lynette Kobernik, M.M. *Oboe*  
Charles Koster, M.A. *Bassoon*  
Audrey J. Lamprey, M.M. *French Horn*  
Frances C. Moore, M.A. *Violin and Viola*  
Roger Myers, M.A. *Saxophone*  
Patrick L. Read, M.A. *Classical Guitar*  
Manon Robertshaw, M.M. *Cello*  
Robert L. Scarano, B.A. *Jazz Guitar*  
Steve Schmidt, M.M. *Percussion*  
Leslie Schroerlucke, M.M. *Clarinet*  
David Scott, M.M. *Trumpet*  
Robert Slack, M.M. *Trumpet*  
Jeffrey Stover, A.A. *Electric Guitar*  
Mary Sturpin, M.M. *Trumpet*  
Lucille A. Taylor, M.A. *Violin and Viola*  
Camila Voin, B.M. *Voice*

## Majors

The Music Department offers undergraduate majors leading to the B.A. in Music and the B.A. in Music and Culture.

**Scholarships** Students have access to student assistantships, work-study, Gluck Fellowships, and scholarships such as the Chancellor's Performance Award. For further information or a department tour, call the Music Department, (951) 827-3343.

**Performance** Throughout each academic year the Department of Music and Cultural Events sponsor more than 50 formal and informal concerts and recitals by campus ensembles, students, members of the performance faculty, and distinguished visiting artists. The department also sponsors the UCR Contemporary Music Series. Most of the Music Department concerts are open to the public.

**Facilities** The department's facilities include an electronic/computer music studio, practice rooms equipped with Steinway and Yamaha

pianos, teaching studios, a carillon console, and computerized ear training equipment. The instrument collection, in addition to complete families of the modern orchestral and band instruments, is particularly rich in historical replicas: three pipe organs, two harpsichords, virginal, clavichord, forte-piano, lutes, theorbo, viols, and a large group of Renaissance and Baroque wind instruments. The department also owns the instruments for three Asian ensembles: Javanese gamelan, Japanese Taiko, and Filipino Rondalla.

The **UCR library** has strong music research collections located in three facilities. Approximately 35,000 books about music may be found in the Rivera Library, along with journal backfiles and microforms. The Music Library, located in room 054 Arts Building (lower level), provides listening equipment and houses collections of some 12,000 LPs, more than 2,000 CDs, and 22,000 music scores. A growing collection of audio CD-ROMs is also available. The library's collections of film, video tapes, and laser discs, along with playback equipment, are housed in the Media Library, located in the Humanities and Social Sciences building. Online access to these collections and a variety of electronic resources is provided through MELVYL (the UC online catalog) and the library's electronic catalog, INNOPAC.

## Music Major

A Music major not only gains a knowledge and awareness of music as a worldwide cultural phenomenon but develops critical acumen through a manifold approach to sound in its many cultural settings. Historical, ethnographic and critical studies are complemented and deepened by music-writing and auditory skills (developed largely in the context of Western music), and by ensemble performance (available in Indonesian, Philippine, Japanese and Latin American as well as traditional Western forms) and by individual instrumental or vocal study.

## Music and Culture Major

The Music and Culture major offers an approach predominantly scholarly and critical to music as culture from the perspective of research, criticism, and interpretation, with an emphasis on historical and ethnographic approaches. It is oriented primarily toward understanding music as a culturally expressive form. Courses in music and/or dance performance are required but are positioned more broadly within the major as a means to explore interrelationships between music and other forms of performance.

## University Requirements

See Undergraduate Studies section.

## College Requirements

See College of Humanities, Arts, and Social Sciences, Colleges and Programs section.

## Major Requirements

### Music Major

The major requirements for the B.A. degree in Music are as follows:

1. Lower-division requirements (13-15 units plus keyboard proficiency)
  - a) MUS 030A, MUS 030B, MUS 030C
  - b) MUS 031A, MUS 031B, MUS 031C or proficiency for MUS 131A
  - c) Keyboard proficiency
2. Upper-division requirements (63 units plus quarterly ensemble)
  - a) MUS 112A, MUS 112B, MUS 112C
  - b) MUS 130A, MUS 130B
  - c) MUS 131A, MUS 131B, MUS 131C or proficiency
  - d) Six quarters of MUS 180 (E-Z) or MUS 181 (E-Z)
  - e) Twenty-eight (28) additional upper-division units from the following. (No performance courses numbered MUS 160 to MUS 181 (E-Z) may be used to satisfy this requirement.)
    - (1) MUS 138
    - (2) One course in music in world cultures (MUS 122-129)
    - (3) One course from the MUS 113–119 series, MUS 187, or MUS 191 (E-Z)
  - f) Participation in a major ensemble (MUS 160–166, MUS 168/AST 168–MUS 173) each quarter

**Note** Because of additional performance requirements appropriate to the music curriculum, Music majors have been granted an exemption from the 80-unit limit on courses in the major so that 102 music units may be counted toward the B.A.

Students emphasizing the study of music in world culture are advised to take at least two additional courses in the MUS 120 series in addition to MUS 168/AST 168.

Students emphasizing Western music history are advised to take at least two additional courses in that area.

Students emphasizing music theory and composition are advised to take MUS 137 and at least two additional courses in music theory or composition.

Students seeking a teaching credential are advised to take MUS 133, MUS 150A, MUS 150B, MUS 150C, MUS 150D, MUS 151, and MUS 152. Consult the Graduate School of Education for credential requirements.

**Examinations and Auditions** The ability to play simple piano music is required of all majors. Students lacking keyboard proficiency when the major is declared must enroll in MUS 080P to prepare them for the proficiency examination. This examination should be passed by the

junior year. Consult the department for examination requirements.

All students intending to enroll in MUS 030A must take a music theory diagnostic examination, which is given at the beginning of instruction.

MUS 031A, MUS 031B, and MUS 031C are taken until proficiency for admission to MUS 131A is achieved. The completion of MUS 131A, MUS 131B, and MUS 131C is required for graduation.

All students normally participate in a major ensemble each quarter. Admission to any ensemble course is by consent of instructor. All students intending to participate in an ensemble course must audition during registration.

**Fees** All students enrolled in MUS 080 (E-Z), MUS 081 (E-Z), MUS 180 (E-Z), and MUS 181 (E-Z) must pay a lesson fee (check with the department office for current fee).

Enrollment in one section of MUS 180 (E-Z) or MUS 181 (E-Z) per quarter is provided at no additional cost to upper-division Music majors for a maximum of six quarters.

### Music and Culture Major

All majors must enroll in at least one music ensemble each quarter. However, students may enroll in DNCE 067A through DNCE 075B instead of, or in addition to, any of the music ensemble courses.

In addition, the major requirements for the B.A. degree in Music and Culture are as follows:

1. Lower-division requirements (17–19 units)
  - a) MUS 030A, MUS 030B, MUS 030C
  - b) MUS 031A, MUS 031B, MUS 031C
  - c) ANTH 001, SOC 001, DNCE 005, or DNCE 007
2. Upper-division requirements (59 units)
  - a) Music courses (39–49 units)
    - (1) Western Music History: MUS 112A, MUS 112B, MUS 112C, MUS 114, MUS 116, MUS 117, MUS 136, MUS 191 (E-Z)
    - (2) Ethnomusicology: MUS 121, MUS 124/AST 124, MUS 125, MUS 126/ANTH 177/WMST 126, MUS 127/ANTH 176/AST 127/ DNCE 127/ETST 172, MUS 128/ ANTH 128/AST 128/DNCE 128/ THEA 176, MUS 129/ETST 118, MUS 140/HISA 139
    - (3) Individual Study: MUS 190, MUS 194, MUS 195, MUS 199H
  - b) Other upper-division courses (12–24 units)
    - (1) Dance History (4–8 units): DNCE 130/ANTH 130, DNCE 141, DNCE 142, DNCE 171 (E-Z), DNCE 172 (E-Z), DNCE 173 (E-Z)
    - (2) Anthropology or Sociology (4–8 units)
    - (3) English or Film and Visual Culture (4–8 units)

- (4) Other courses in the Social Sciences, Humanities, or Arts could count towards these units if the students petitions and an advisor's permission is granted.

### Minor

The minor in Music is designed for students who wish to continue their musical studies while pursuing another major. Within the required 24 upper-division units, the minor provides basic skills in music theory and first-level studies in music history and literature while still offering modest flexibility to pursue individual interests.

1. Lower-division preparation: (16 units)
  - a) MUS 001 or equivalent
  - b) MUS 030A, MUS 030B, MUS 030C
2. Upper-division requirements (24 units)
  - a) Eight (8) units from MUS 112A, MUS 112B, MUS 112C
  - b) Four (4) units from MUS 122-129
  - c) Eight (8) units selected from MUS 122-129, MUS 130A, MUS 130B, MUS 133-139, MUS 191 (E-Z)
  - d) Four (4) additional units in ensemble performance

As a freshman or sophomore, the student should complete MUS 030A, MUS 030B, MUS 030C (Harmony). This is a prerequisite for all later studies in the minor. Harmony has a prerequisite of MUS 001 (Introduction to Basic Musical Concepts) or the equivalent.

Two required courses from MUS 112A, MUS 112B, MUS 112C should be completed following MUS 030A, MUS 030B, MUS 030C and not later than the junior year.

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.

### Education Abroad Program

The EAP is an excellent opportunity to travel and learn more about another country and its culture while taking courses to earn units toward graduation. Students should plan study abroad well in advance to ensure that the courses taken fit with their overall program at UCR. Consult the departmental student affairs officer for assistance. For further details visit UCR's International Education Center at [internationalcenter.ucr.edu](http://internationalcenter.ucr.edu) or call (951) 827-4113.

See Education Abroad Program under International Education Center in the Student Services section of this catalog. A list of participating countries is found under Education Abroad Program in the Programs and Courses section. Search for programs by specific areas at [eap.ucop.edu/programwizard](http://eap.ucop.edu/programwizard).