Music

OFFICE: 111 Mandeville Center for the Arts
Web page: http://www.ucsd.edu/music

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Music Technology Director
Peter Otto, M.F.A., Lecturer

This department is dedicated to the development of musical intelligence and capacity, centering its quest on the music of our own time. The undergraduate programs intend to enhance the exercise and comprehension of the music-making process. The graduate programs aim to educate practitioners and researchers who can nourish the entire domain of music as well as extend its boundaries.

Resources

Performance/Production Opportunities
Although performance students take lessons and give recitals within the framework of their degree program, non-performance students are also encouraged to participate in the performance life of the department—in ensembles, festivals, and collaborative ventures.

During the academic year, a diverse slate of more than 150 public concerts is presented in well-equipped venues: Mandeville Center Auditorium (792 seats), Mandeville Recital Hall (150 seats), Erickson Hall (150 seats), and Studio A (100 seats). These concerts provide students with both performance experience and a forum for examining the music of diverse eras and cultures. Substantial resources and staffing are dedicated to producing the music of our time, including faculty and student works, by new music ensembles, SONOR (faculty), experimental and improvisation ensembles, and student performance collectives (New Music Forum, Performers’ Forum, and CS/EP Forum).

Practice facilities include a complement of grand pianos, disclaviers and uprights, an electronic keyboard lab, several harpsichords, a wide array of percussion, a percussion studio, and a limited collection of musical instruments for student checkout.

ENSEMBLES IN RESIDENCE
Concert Choir
Chamber Music Ensembles
Chamber Orchestra
Chamber Singers
Ensemble Realization of Unconventionally Notated Scores
Gospel Choir
Improvisation Ensemble
Jazz Chamber Ensembles
Large Jazz Ensemble
La Jolla Symphony and Chorus
redfishbluefish
SONOR
Wind Ensemble
World Music (Sitar & Tabla)

VISITING ARTISTS/ARTISTS IN RESIDENCE
Visiting artists and artists in residence play an integral part in the research at UCSD’s Department of Music. Outside artists collaborate with faculty and students in Focus seminars, concerts, week-long festivals, and colloquia, bringing an array of new creativity and ideas.

Music Technology Facilities
http://orpheus.ucsd.edu/dept.music/musictech

The Department of Music maintains highly sophisticated, continuously upgraded facilities for the support of graduate and undergraduate instruction.

Computer Music Instructional Laboratory (B-104)—Mandeville Center room B-104 was originally established in 1987 to support undergraduate and graduate studies in computer music. B-104 is a 900-square-foot facility with recessed storage and printing areas, machine isolation, acoustical treatments, presentation console, ergonomic workstation components, high-resolution data projection system, CD and DVD authoring, and integrated digital and analog audio equipment for student access to audio processing, duplicating, mixing and high-quality multi-channel audio monitoring.
Music

A server is maintained with network connections, mass storage, andarchiving systems. Intel computer workstations run unique music soft-
ware packages developed at UCSD. The CARL package, by Professor F.R. Moore and Gareth Loy, earned UCSD an international reputation for computer music and was adopted for use in computer music facilities around the world. PD is a new real-time, interactive musical and graphics programming environment written and under continuing development by Professor Miller Puckette. Other audio and graphics editing and processing software packages are also supported. Mobile systems optimized for live performance applications are also maintained in B-104. The facility is configured and optimized to support direct connection of musical instruments to computers for prototyping of real-time interactive performance and compositional projects using MAX/MSP/Jitter and PD computer music software.

Digital Music Project Studio (B-108)—Mandeville Center room B-108 Digital Music Project Studio is a 900-square-foot facility, including an isolation booth, absorption and diffusion treatments, data connections and audio tie-lines to B-104 and Erickson Hall. This studio houses Macintosh and Linux systems and many dedicated devices for music production and recording, including a ProTools digital audio production package with 8 channels of digital and analog i/o for precise digital recording and editing. Recent upgrades include improved microphone pre-amps and an array of new software packages including ProTools plugins and spatialization tools. The studio features a Tascam 24-track hard disk and digital multi-track recorders with synchronization and digital i/o, a Yamaha 02R96 digital mixing console with all upgrades, Zsys digital patchers, and sound-for-picture capabilities. The studio supports MIDI for synthesis, processing, and control in music composition and performance, and includes hardware and software for CD and DVD mastering.

Open Computing Laboratory (B-206)—This facility occupies 1950 square feet, with audio and printer connections to B-104. All workstations are networked and several stations are equipped with CD and DVD burning equipment. B-206 was established in 1990 to support many facets of the music department curriculum, and has been upgraded incrementally nearly every year thereafter. It now comprises of 17 computer workstations (13 iMacs, 3 desktop G4s, and an Intel), most with MIDI interfaces and Yamaha SY22/33 synthesizer. Coda Finale, Max/MSP, Soundhack, Metasonix, Pd, and IRCAM Forum are some of the packages supported in the lab. Large-format music and text printing are supported. For instructional presentation, the room features a high quality data projection and sound system. The presentation station also features a PC workstation, a G4 Mac with stereo ProTools editing, DAT, Bias Peak editor and SpectraFoo, signal display software, and a CD burner.

Media Networking—B-104, B-108, B-206, and most of UCSD Department of Music’s performance spaces and classroom spaces have been upgraded for fast ethernet and media networking. Media networking allows advanced students and researchers to “stream” digital video and audio among diverse on-campus facilities and onto the Internet. Additionally, there is wireless connectivity at various campus locations.

http://www.crca.ucsd.edu

CONCERT AND RECORDING TECHNOLOGY
http://www.ucsd.edu/music/cd

• Students can check out recording and concert production equipment on a daily basis. All faculty and most student concerts are recorded by professional staff or their assistants, and qualified students can utilize the department’s extensive high tech resources for experimental projects resulting in public performance and recordings of new works. Our first annual 2-CD compilation, guided by faculty mentors, features advanced graduate students who performed, composed, edited, and collaborated to produce a snapshot of musical achievement that predicts distinguished careers and new avenues of musical thought and practice.

WARREN STUDIOS
http://orpheus.ucsd.edu/dept.music/musictech

The Warren Studios are state-of-the-art musical recording and faculty research facilities. The studios were designed to serve the faculty and advanced students of the music department, meeting the following objectives:

• to serve as an unsurpassed facility for recording and mastering of musical works
• to serve as a reference-critical listening space for the evaluation of audio production and musical materials

Center for Research in Computing and the Arts (CRCA)
http://www.crca.ucsd.edu

The Center for Research in Computing and the Arts (CRCA) is an organized research unit of UCSD. CRCA exists to foster collaborative working relationships among artists, scientists, and technologists by identifying and promoting projects in which common research interests may be advanced through the application of computer-mediated strategies.

Computer music projects at CRCA cover a broad spectrum, from pure research to technically advanced creative endeavors. Current research in spatialized audio, computer music languages, interactive performance, and synthesis techniques is conducted at CRCA.

CRCA offers a broad array of events in its facility, reflecting the areas of research and artistic expression of our faculty, students, associates, and visiting scholars. The center’s event space offers 8-channel spatialized sound capabilities, seating for 75 to 100, projection of computer and video sources, and audio playback from digital and analog sources.

Music Library
http://orpheus.ucsd.edu/music

The Music Library (located in Geisel Library) houses an extensive collection of holdings in all areas of Western music, and possesses one of the most exhaustive collections of twentieth-century music in this country. In addition, the collection of materials in non-Western music is aggressively being expanded. The Music Library has remote playback capability whose purpose is to support the coursework and research of UCSD faculty and students. The listener can directly control any of the cassette decks, reel-to-reel tape decks, turntables, CD players, laser disc players, VHS HiFi VCRs, and Beta HiFi VCRs. Ten of the remote control listening stations are equipped with video monitors. The Auxiliary Studio and Seminar
Room are equipped with full remote control of any of the audio or video equipment. The Music Library’s innovative Digital/Audio Reserve Project (DARP) uses networked audio streaming to maximize student access to listening assignments.

The Undergraduate Program

Undergraduate courses offered in the Department of Music satisfy a wide range of interests for non-music majors as well as for students majoring in music.

Students wishing to acquire a musical background to support further study should take Music 1A-B-C, which develops skills musicians use in the analysis and performance of music. Students interested in “music appreciation” should choose from the following courses, which introduce aspects of the rich heritage of music: Music 4–15. None of the aforementioned courses have prerequisites. For students with prior musical background who wish to continue in upper-division theory courses, Music 2A-B-C (in lieu of 1A-B-C) is essential.

Music Major Programs

The undergraduate program at UCSD offers a bachelor of arts degree in music and in music humanities. The curriculum emphasizes the development of musical listening and performance skills as applied to both contemporary and traditional music.

The music major is intended for students who may choose to engage in music as a profession. This major thus requires extensive development of musical skills. A student without the appropriate level of those skills upon entrance to UCSD must devote considerable time to attaining them, either in lower-division courses or independent study. Students can concentrate in composition, performance, literature, technology, or jazz and the music of the African diaspora.

The Department of Music is committed to creative music making, including music as a central element. This program emphasizes music history and literature, and allows the individual student to select an area of interest for the major within the broad field of the humanities.

Music Major Requirements

The lower-division prerequisites for the music major are Music 2A-B-C, and Music 2AK-BK-CK. Jazz emphasis students take Music 2JK in lieu of 2CK. To continue within the major, all students must pass Music 2C or an equivalent proficiency exam. Composition emphasis students must take Music 33, Introduction to Composition, or take a proficiency exam for the course. All required music major courses must be taken for a letter grade, with the exception of Music 143, which is taken on a Pass/No Pass basis. All courses to be counted toward satisfying the major requirements must be passed with a grade of C or better.

To complete the music major the following courses are required. Courses which are specific to each area of emphasis are shown in parentheses.

1. One of the following sequences:
   - Music 101A-B-C (performance, composition, literature, and technology)
   - Music 101A-B and 104 (jazz)

2. One of the following sequences:
   - Music 102A-B-C (performance, composition, literature, and technology)
   - Music 137A-B-C (jazz)

3. Music 120A-B-C

4. One quarter of Music 133 (normally taken in the winter quarter of the junior or senior year)

5. One of the following:
   - Music 111 or 114 (performance, composition, literature, and technology)
   - Music 150 (jazz)

6. One of the following:
   - three quarters of Music 132 or 132V (performance)
   - Music 103A-B-C (composition)
   - three courses (in addition to Music 111 or 114) from the series Music 111-115, 126, and 127A-B (literature)
   - Music 170/171/175 (technology)
   - two courses from Music 105, 126, 127A, and 127B; plus one course from Music 107, 110, 111, 114, 115, or 150 (in addition to #5 above) (jazz).

7. One additional course to be selected from:
   - Music 111-115, 126, 127A-B, and 150 (performance, composition, literature, and technology)
   - Music 151-154 (jazz)

8. One of the following sequences:
   - three quarters of Music 95, 130, 131, or 134, including two quarters from 95C, 95D, or 95K (performance, composition, literature, and technology)
   - two quarters of Music 95C or 131, plus one quarter of Music 95C, 95D, 95G, or 95K (jazz)

9. Music 143 every quarter

Music/Humanities Major Requirements

The prerequisite for the music/humanities major is Music 1A-B-C (or 2A-B-C, if qualified). To complete the major the following courses are required:

1. Music 120A-B-C.

2. Three courses chosen from Music 111–115, 126, and 127A-B.

3. Six upper-division courses, selected from the humanities or the fine arts, that form a coherent program of study relevant to the chosen upper-division music courses.

4. Three quarters of Music 95, 130, 131, or 134 (two from 95C, 95D, or 95K).

5. Music 143 every quarter.

Students interested in this major should confer with the music/humanities faculty adviser to work out a course of study, which must be submitted at the beginning of the junior year for the adviser’s written approval.

Interdisciplinary Computing and the Arts (ICAM) Major

Major Requirements

Twenty courses are required in the computing and the arts major for the attainment of the Bachelor of Arts degree. A minimum of twelve of these courses must be upper division.

All courses taken to satisfy major requirements must be taken for a letter grade, and only grades of C– or better will be accepted in the major.

The Undergraduate Program

The Interdisciplinary Computing and the Arts program in the Music and Visual Arts departments draws upon, and aims to bring together, ideas and paradigms from computer science, art, and
cultural theory. It also takes for granted that the computer has become a metamedium and that artists working with computers are expected to combine different media forms in their works. All of this makes the program unique among other currently existing computer art or design programs which, on the one hand, usually focus on the use of computers for a particular media (for instance, specializing in computer animation, or computer music, or computer design for print) and, on the other hand, does not enter into a serious dialog with the current research in computer science, only teaching the students off-the-shelf software.

The program also recognizes that creating sophisticated artistic works with computers requires a new model of the creative process, one that combines traditional artistic procedures with the experimental research characteristic of the sciences. All in all, it aims to train a new type of cultural producer, who is familiar with music technology, who is equally proficient with computer programming and artistic skills, who is always ready to learn new technologies, and who is comfortable interacting with scientists and computer industry resources.

The goals of the program are:

- to prepare the next generation of artists who will be functioning in a computer-mediated culture
- to give students necessary technical, theoretical, and historical backgrounds so they can contribute to the development of new aesthetics for computer media
- to prepare students to mediate between the worlds of computer science and technology, the arts, and the culture at large by being equally proficient with computing and cultural concepts
- to give students sufficient understanding of the trajectories of development in computing so they can anticipate and work with the emerging trends, rather than being locked in particular software currently available on the market.

Admission to the ICAM Major

Student interest in the Interdisciplinary Computing and the Arts Major (ICAM) has been strong. Because the department has limited resources to accommodate student demand, it is necessary to limit admission to these majors to the most highly qualified students. Any student admitted to UCSD beginning in fall 2002 who wishes to declare an ICAM major will be admitted to the pre-major rather than being directly admitted to the major.

ICAM Pre-Major

Students designated as pre-majors in ICAM must complete the following eight required lower-division courses within six quarters (by the end of their sophomore years):

- MUS 4, Introduction to Western Music
- VIS 1, Introduction to Art-Making
- ICAM 40/VIS 40, Introduction to Computing in the Arts
- MATH 20A, Calculus for Science and Engineering*
- MATH 20B, Calculus for Science and Engineering*
- CSE 11, Introduction to Computer Science: JAVA*

and one from

- MUS 1A, Musical Literacy
- MUS 2A, Basic Musicianship
- MUS 5, Introduction to Music Making

and one from

- MUS 6, Electronic Music
- MUS 7, Music, Science, and Computers
- MUS 14, Contemporary Music

* MATH 20A and MATH 20B is an accelerated calculus course for science and engineering. MATH 10A-B-C covers similar material in a non-accelerated format, and can be substituted. CSE 11 is an accelerated course in the JAVA programming language. CSE 8A and CSE 8B, which cover the same material in a non-accelerated format, may be substituted.

Applying to the Major

Upon completion of all required lower-division courses, pre-majors who seek entrance to the ICAM major must formally apply at the Music Department Undergraduate Program Office. Admission will be based on the following criteria:

1. Performance in the lower-division courses as measured by a GPA of 3.0 or higher, determined by the department on an annual basis.
2. Submission to the department of a portfolio of work demonstrating superior progress as a pre-major. The portfolio will consist of at least two projects that the student has produced in ICAM 40/VIS 40, in another digital arts class, or independently, that in the faculty’s judgment demonstrate that the student possesses the artistic ability and technical skills to perform at a high level in upper-division courses in the majors. Pre-majors should consult the undergraduate adviser in music as to the form in which projects should be submitted (disk, slides, tapes, etc.). For ICAM-music students the portfolio may consist of CDs, DVDs, videotapes, audio tapes, Web sites, performances and performance reviews. ICAM 40 projects, media works created independently or collaboratively with other students, media works created independently or during internships or employment, written personal statements regarding career goals; written recommendations from ICAM faculty, software design, and implementation projects.

Transfer Students

Beginning in fall 2002, transfer students who wish to declare an ICAM major are subject to the major’s admissions policies: that is, they will be admitted initially as pre-majors, apply to the major on the same basis as other students, and be subject to the same requirements with respect to lower-division courses, grade-point average, and portfolio evaluation. Transfers entering with 36 or more quarter units must apply for admission to the major no later than their third quarter of study at UCSD. At the time of admission to the pre-major, transfer students’ transcripts will be evaluated by the departments to determine what courses completed elsewhere, if any, may be petitioned as equivalent to required courses. Students should be prepared to provide course descriptions and other materials that may be required to determine the content of such courses.

Continuing Students (Students admitted prior to fall 2002)

Any student admitted to UCSD before fall 2002 may declare an ICAM major by completing a Change of Major form at the undergraduate adviser’s office and attending an orientation meeting.

Policies Related to the ICAM Major

Satisfactory Progress

Any ICAM major whose GPA in courses required for the major drops below 2.0 will be placed on probationary status the following quarter. If, during that probationary quarter, the GPA does not move back to up 2.0 or better, he or she will be dropped from the major.
Prerequisites

Students are required to complete all prerequisites prior to enrolling in any course required for the major. Exceptions must be negotiated with the instructor of the course in question, in consultation with the department undergraduate adviser.

Limitations to Enrollment by Non-Majors

A department stamp is required for all upper-division courses in computing in the arts. Because ICAM is an impacted major, first preference in enrollment in upper-division computing in the arts will be given to ICAM majors and to music majors with a technology concentration. Second preference will be given to other visual arts and music majors. Other students will be admitted to these courses only if space is available.

Lower-Division

(Eight courses required.)

MUS 4, Introduction to Western Music
VIS 1, Introduction to Art-Making
ICAM 40/VIS 40, Introduction to Computing in the Arts
MATH 20A, Calculus for Science and Engineering*
MATH 20B, Calculus for Science and Engineering*
CSE 11, Introduction to Computer Science: JAVA*
and one from
MUS 1A, Musical Literacy
MUS 2A, Basic Musicianship
MUS 5, Introduction to Music Making
and one from
MUS 6, Electronic Music
MUS 7, Music, Science, and Computers
MUS 14, Contemporary Music

* MATH 20A and MATH 20B is an accelerated calculus course for science and engineering. MATH 10A-B-C covers similar material in a non-accelerated format, and can be substituted. CSE 11 is an accelerated course in the JAVA programming language. CSE 8A and CSE 8B, which cover the same material in a non-accelerated format, may be substituted.

Upper-Division

(twelve courses required)

Survey (one course required)

ICAM 110, Computing in the Arts: Current Practice

Foundation (three courses required)

ICAM 101/VIS 140, Digital Imaging: Image and Interactivity
ICAM 102/VIS 145A, Digital Media I: Time, Movement, Sound
ICAM 103/MUS 170, Musical Acoustics

Advanced (four courses required)

One of:

MUS 172, Computer Music II
VIS 141B, Computer Programming for the Arts II
VIS 145B, Digital Media II
VIS 147B, Electronic Technologies for Art II

Three of:

ICAM 120, Virtual Environments
ICAM 130/VIS 149, Seminar in Contemporary Computer Topics
MUS 171, Computer Music I
MUS 173, Audio Production: Mixing and Editing
MUS 174A-B, Audio and MIDI Studio Techniques
MUS 175, Musical Psychoacoustics
MUS 176, Music Technology Seminar
VIS 109, Advanced Projects in Media
VIS 131, Special Projects in Media
VIS 132, Installation Production and Studio
VIS 141A, Computer Programming for the Arts I
VIS 147A, Electronic Technologies for Art I
VIS 174, Media Sketchbook

Theory and History (two courses required)

ICAM 150/VIS 159, History of Art and Technology

and one of:

MUS 111, World Music Traditions
MUS 114, Music of the Twentieth Century
VIS 123CN, Early Print Culture: The First Media Revolution
VIS 125E, History of Performance
VIS 150, History and Art of the Silent Cinema
VIS 151, History of the Experimental Film
VIS 152, Film in Social Context
VIS 153, The Genre Series
VIS 154, Hard Look at the Movies
VIS 155, The Director Series
VIS 157, Video History and Criticism
VIS 158, Histories of Photography

Senior Project (two courses required)

ICAM 160A, Senior Project in Computer Arts I
ICAM 160B, Senior Projects in Computer Arts II
All Computing and the Arts (ICAM) course descriptions are listed at the end of the lower- and upper-division sections under “Courses.” Not all courses are offered each year.

Honors

1. To be admitted into the honors program a student must have the following:

• Excellence in a specific subject matter (performance, composition, literature, technology, or music/humanities) and faculty support.

• Performers must have previously performed on Performers Forum and enrolled in Chamber Music, Music 130. (Vocalists can seek an exception.) Other students must have completed all Music 95 requirements prior to entering the honors program.

• A GPA in the Department of Music of 3.6; an overall GPA of 3.0

All of the requirements below must be completed before the last day of instruction in the spring quarter prior to the academic year in which the student proposes to pursue an honors curriculum.

• Performance students must present a piece before the performance faculty that demonstrates their technical and musical abilities. In addition, students must provide a proposed program for an honors recital.

• Composition students must have a composition performed on the New Music Forum series. Either the student’s principal instructor must attend this performance or a tape of this performance must be provided for faculty review. In addition, students must provide a proposed portfolio of original scores for an honors recital.

• Literature students who have (1) presented historically- or musically-oriented research papers at campus venues featuring undergraduate research, or (2) been involved in the faculty mentor program, or (3) participated in the presentation of the winter opera with the accompanying symposium, may submit a portfolio of papers to the Critical Studies/Experimental Practices (CSEP) faculty. In addition, students must propose a fifty minute lecture for the Department Seminar (Music 143).

• Music science and technology students must present a portfolio of projects to the
music technology faculty and propose a fifty-minute lecture/demonstration for the Department Seminar (Music 143).

2. Once admitted to the honors program:
   - Students must be supervised by a faculty adviser throughout the honors program.
   - Composition students admitted to the honors program will enroll in twelve units of the Composition Honors course (Music 103D-E-F). Performance students will enroll in twelve units of Music 132R (after at least three quarters of Music 132). Technology students will enroll in twelve units of Music 176 or 199; Music literature and music humanities students will enroll in twelve units of Music 199, 150, or 107.

3. To receive honors:
   - A student must publicly demonstrate an appropriate level of excellence, an acceptable GPA, and suitable participation in department presentations and seminars, as determined by the student's honors committee.

Please Note: Being admitted to the honors curriculum does not guarantee that a student will receive honors.

For further information on the Department of Music Honors Program and to obtain an application form, students should make an appointment with the undergraduate staff adviser.

Transfer Students

Students who plan to transfer into the music major should have strong skills in basic musicianship. For those planning to emphasize performance, solid proficiency on the instrument is required. A general course in the history of music is recommended. All transfer students must pass a proficiency examination in Music 2C (Basic Musicianship) and Music 2CK (Basic Keyboard). To verify the acceptability of transfer music courses, students must make an appointment with the undergraduate staff adviser.

Minor Programs

Please obtain a Department of Music brochure of approved minors from the undergraduate office. Students must seek advice and obtain approval from the undergraduate adviser prior to embarking upon a minor program.

The music minor for students entering UCSD in and after winter quarter 1998 consists of:

- two lower-division music courses except performance ensembles (Music 95A–Music 95W) and lessons (Music 32)
- five upper-division music courses

Students who entered UCSD before winter 1998 may select either the new minor or one of the music minors offered at the time of their entry into the university.

A minor with an emphasis in ICAM consists of seven specific courses, of which at least five must be upper division. Prospective minors should consult with the respective departmental adviser for a complete list of appropriate classes acceptable for the minor.

Advising Office

Undergraduate Staff Adviser
Eileen Voreades, Room 110
Mandeville Center, (858) 534-8226
evoreades@ucsd.edu

The Graduate Program

UCSD offers the master of arts and doctor of philosophy in music as well as a doctor of musical arts. Areas of emphasis for the M.A. include Composition, Computer Music, Critical Studies/Experimental Practices (CS/EP), and Performance. For the Ph.D., areas of emphasis offered are Composition, Computer Music, and Critical Studies/Experimental Practices. The doctoral of musical arts has an emphasis in Contemporary Music Performance.

Composition

The Composition Program is committed to nourishing the individual gifts and capacities of student composers in a diverse and active environment, with an emphasis on intensive personal interaction between faculty and student. The faculty mentor considers a student’s particular goals and then attempts to strengthen his or her technical capacity to meet them. Of course, it is also the case that the diversity and liveliness of our program itself often challenges students to reevaluate their goals.

An incoming member in the M.A. or Ph.D. program begins with a year-long seminar (taught by a different faculty composer each quarter) and continues with individual studies thereafter. At the close of the first year fall quarter and again after the following spring quarter, the entire composition community gathers for a day-long “jury.” Each seminar member is allotted a block of time during which the composition that has just been completed is performed and recorded in a carefully rehearsed presentation. There is a detailed discussion of each work by the faculty composers, and the student has opportunity to comment, explain, and pose questions. Following the performance and discussions of this day, the composition faculty meets to assess the students’ work collectively and to offer any guidance deemed necessary. This process is at the root of the uniqueness of the UCSD program, and manifests the range, seriousness, and vitality with which compositional issues are explored here.

After completing three quarters of seminar and two juries, students come to know something about the ideas and perspectives of each faculty composer; the faculty, in turn, is aware of each student’s objectives and needs. At this point, an individual mentor is agree upon and this relationship becomes the center of the student’s continuing work as the degree is completed. A Third Year Forum presents, under departmental auspices, a work composed by each third-year Ph.D. composer in the four quarters since his or her second jury. As a part of preparation for this forum, each student composer is expected to have a faculty performer on his or her Ph.D. committee (as a regular member, or as an additional sixth member). The faculty performer is the student’s performance mentor and guide in interfacing with the performance community. There is also a biweekly Focus on Composition Seminar at which faculty, students and selected visitors present work of interest (compositional, analytical, technological, and even whimsical).

The seminars serve to foster mutual awareness within the student composer group. Collegial relationships develop which lead not only to friendships but also to further creative outlets in cooperative projects, including the student-run Composers’ Forums, performance collectives, and recital projects. UCSD performers—faculty and student—are all committed to the playing of new music, and frequent composer/performer collaborations are a vital aspect of life in the Department of Music.

Computer Music

http://orpheus.ucsd.edu/dept.music/musictech/
The Computer Music Program emphasizes research in new techniques for electronic music composition and performance, catalyzed through an active concert program of new works by students, faculty, and visitors. Areas of research include:

- new audio synthesis techniques
- audio signal processing
- psychoacoustics
- live improvisation with and by computers
- integrating audio and video
- electronic spatialization of sounds
- techniques for live electronic music performance
- computer music software and HCL design
- audio analysis and feature detection

The Computer Music Program encourages work which overlaps with the other programs of study: composition, performance, and critical studies/experimental practices. Analyzing and performing electronic music repertoire as well as writing new music involving electronics are encouraged.

The computer music area’s first year is centered on a year-long “backbone” course covering the essentials of the computer music field. This material divides naturally into three portions (audio signal processing, compositional algorithms, and musical cognition).

In their second year, students work individually with faculty members to deepen their mastery of their subject areas of concentration. For example, a student wishing to focus on signal processing aspects might study techniques for digital audio analysis and resynthesis, drawing on the current research literature.

Also during these first two years Ph.D. students take seminars on music analysis, composition, and performance practice. After having taken a critical mass of such subjects students enter a qualifying examination preparation period, and, once successful, they start their dissertation research.

UCSD’s Center for Research in Computing and the Arts (http://crca.ucsd.edu) offers an ideal research environment for graduate students in this area. The music department also provides extensive laboratory and computing support for computer music.

Critical Studies/
Experimental Practices

The Program in Critical Studies/Experimental Practices (CS/EP) explores what music is about over the widest possible range of traditions and possibilities. An exploration of experimental, Western, and non-Western music-making is combined with the critical examination of music and musical ideas within human societies.

This interactive environment encourages a cross-fertilization between diverse musical forms and the theoretical and critical discourses that surround them, often drawing in those who may not fit conventional categories of “composer” or “performer,” or those whose work is not constrained by traditional disciplinary boundaries.

Thinking about music requires both analytic engagement with real music and the creative investigation of ideas relevant to its nature, creation, production, and reception. Core seminars explore multiple ways of thinking about music, including critical, cognitive, and intercultural approaches as well as traditional syntactical analysis. Recent seminars have included cross-culturalism in music, psychoacoustics, film and popular music, multimedia aesthetics, methodologies for improvisation, representations of sexuality and gender in music, ethics, music and theater, and contemporary theories of narrativity in music. Students are encouraged to share their scholarly, musical, and interdisciplinary work in quarterly CS/EP forums.

Music-making in CS/EP encompasses both compositional and performance activities. Experimental performance workshops incorporate improvisation and such diverse elements as new technologies, video, dance, visual, and theatrical components to make music in a multiplicity of ways.

Student-generated projects and workshops are also an important component of the UCSD Graduate Program in CS/EP. Individual student interests and initiatives are welcomed by the faculty, who are expert in such diverse fields as cognitive psychology, computer-aided improvisation, ethnomusicology, historical development of Western music, and contemporary critical thought.

Performance

Fostering the creative, intelligent, and passionate performance of contemporary music is the mission of the Performance Program of the Department of Music. As once stated by founding faculty composer Robert Erickson, we at UCSD are a “community of musicians.”

The performance of contemporary music is viewed as a creative act which balances expertise and exploration. Within this context, performers act and interact in a communal environment, working with faculty and student composers, collaborating in music technology, researching instrument design, improvising, and experimenting in performance practice, among many other pursuits.

Graduate performance students pursue either a master of arts or a doctor of musical arts degree in contemporary performance. The course of study for both programs involves the completion of required graduate seminars and intensive study with a mentoring faculty member. Students are encouraged to adopt a vigorous, exploratory orientation in their private study. Final degree requirements include a recital, or in the case of the DMA, two recitals and the presentation of personal performance research.

The work of graduate performance students forms an integral component of a rich musical environment which produces an astonishing quantity and variety of performances. Students may perform in SONOR (the university’s contemporary music ensemble) or in SIRIUS, the graduate student contemporary music group. The Performance Forum, a student-initiated concert series, provides an opportunity for students to present a wide variety of concerts of improvised music, world music, and music with technology.

A strong, collaborative spirit between the Performance and Composition programs also yields many new works each year performed on New Music Forum concerts series.

Graduate Admissions

Students are admitted to begin in fall quarter only. The deadline for submission of ALL application materials is January 12. Failure to meet this deadline jeopardizes admission and financial support.

STEP 1 PRELIMINARY APPLICATION

The application process begins at the Department of Music Web site http://www.ucsd.edu/music with a preliminary online application. We encourage all applicants to apply as early as September.
STEP 2 PORTFOLIO
Music applicants must submit a portfolio consisting of the following by January 12: UCSD, Department of Music, MC 0326, La Jolla, CA 92039. Please include your most recent works as well as twentieth-century pieces, when possible.

- For all applicants, a repertory list of works (solo and chamber) performed or composed during the past few years and a sample of printed concert programs in which you have participated, either as performer, composer, or collaborator.
- For all applicants, a minimum of two papers illustrating writing ability in any of the following areas: musical analysis, criticism, aesthetics, music theory, or music technology.
  —in addition—
- For composition applicants ONLY, a minimum of three scores of instrumental works with taped examples of the works being performed (These may include, but should not be exclusively, electroacoustic works.)
- For computer music and CS/EP applicants ONLY, appropriate documentation (e.g., papers, performances, intermedia works, computer programs, etc.) of prior work.
- For performance applicants ONLY, tapes or CD demonstrating the level of vocal and/or instrumental performance. In person auditions are desirable when possible, but not required.

STEP 3 UCSD APPLICATION FOR GRADUATE ADMISSION
All sections of the official online UCSD Application for Graduate Admission with the $60 non-refundable fee must be submitted by January 12. Applications must include all supporting documents:

- statement of purpose
- three letters of recommendation
- official transcripts
- Graduate Record Examination (GRE) required for all applicants.
- TOEFL (Test of English as a Foreign Language) required for all applicants whose country of citizenship does not have English as its primary language. Minimum score is 550 (or 213 for the computer-based exam).

Advisory Examinations
After completion of an advisory examination during Welcome Week, each new student will meet with the departmental M.A. or Ph.D. adviser. Students found to be deficient in any areas covered on the advisory examination (diction, sight reading, keyboard proficiency, history, and literature) will be advised to remedy deficiencies during their first year.

Core Graduate Curriculum
All graduate students are required to take Music 201 (Projects in New Music Performance) as outlined under each area, Music 210 (Musical Analysis), Music 228 (Conducting)—optional for CS/EP students, and Music 291 (Problems and Methods of Music Research and Performance). Students who completed Music 210, 228, and 291 during their master’s degree program at UCSD, do not need to retake those courses for their doctoral curriculum.

To assure that all requirements are being adequately met, all graduate students must make an appointment with the graduate staff adviser for a degree check no later than the winter quarter of the second year.

Master’s Degree Program
The master of arts in music degree includes areas of emphasis in Composition, Computer Music, Critical Studies/Experimental Practices (CS/EP), and Performance. The degree requires completion of at least thirty-six quarter units of graduate courses (courses numbered 201–299), including six units of Music 500 (Apprentice Teaching in Music) and six units of Music 299 (Advanced Research Projects and Independent Study) bearing directly on completion of the master’s thesis. Master’s students are expected to complete all requirements for the degree in six quarters of residence.

Course Requirements
In addition to the core graduate curriculum, all master’s degree students are required to complete requirements in their area of emphasis:

COMPOSITION
1. Music 201 (A, B, C, D, E, or F)—must take at least two times.
3. Music 203D—after successful completion of 203C, students must enroll in Music 203D (with their committee chair) every quarter until graduation.
4. Music 204—every quarter until graduation.
5. Music 206 and/or 207—a combination of any two courses.

COMPUTER MUSIC
1. Music 201 (A, B, C, D, E, or F)—must take at least two times.
2. Music 205—every quarter until graduation.
3. Music 206 or 207—a combination of any two courses.
4. Music 208A-B-C—must take within the first year of the program.
5. Music 208D—one time during the second year.

CRITICAL STUDIES/EXPERIMENTAL PRACTICES
1. Music 201 (A, B, C, D, E, or F)—must take at least two times.
2. Music 205—every quarter until graduation.
3. Music 206 or 207—a combination of any two courses.
4. Music 208A-B-C—must take within the first year of the program.
5. Music 208D—one time during the second year.

PERFORMANCE
1. Music 201(A, B, C, D, E, or F) or 202—every quarter until graduation.
2. Music 206 or 207—a combination of any two courses.
3. Music 205—every quarter until graduation.
4. Music 232—every quarter until graduation.

Master’s Degree Completion Requirements
A folio of three research papers in professional format (normally to be written in connection with the courses the student will be taking) must be accepted by the student’s committee prior to approval of the thesis.

M.A. candidates will present a thesis consisting of the following under the supervision of the student’s committee chair in Music 299:
1. Candidates emphasizing Composition will prepare a folio of three chamber compositions together with tape recordings of at least two of them.

2. Candidates emphasizing Computer Music will write a research paper (thesis) and present a lecture-performance in which the scientific, technological, and musical aspects of an original computer music composition are documented, played, and discussed.

3. Candidates emphasizing Critical Studies/Experimental Practices will write an extended research paper (thesis) on a topic chosen with their committee chair.

4. Candidates emphasizing Performance will present a recital supported by lecture-quality notes. The program must be approved by the student’s committee chair.

All of the above master’s requirements must have final approval from the student’s individual committee upon completion.

**Doctoral Degree Program**

Students of superior musical competence may pursue a program with emphasis in Composition, Computer Music, or Critical Studies/Experimental Practices (CS/EP) leading to the Ph.D. or doctor of musical arts (D.M.A.) degree in Contemporary Music Performance.

All doctoral students within the Department of Music must complete the Core Graduate Curriculum (outlined in the section above the Master’s Degree Program) plus additional core requirements for the Ph.D. or D.M.A. program. These additional core requirements are:

1. Successful completion of an M.A. degree, including requirements equivalent to those described above for the M.A. in music. UCSD M.A. students who apply to the Ph.D./D.M.A. program must complete all departmental requirements, obtain OGSR approval, and file the M.A. degree at Geisel Library before enrolling in any Ph.D./D.M.A. level courses.

2. The Department of Music strongly recommends that entering students have acquired a reading ability in at least one of the standard reference foreign languages (French, German, Italian, or Spanish) in addition to their native language.

3. All Ph.D./D.M.A. students are required to complete six units of credit in Music 500 (Apprentice Teaching) unless the student has completed this requirement in UCSD’s master’s degree program.

4. After completing the qualifying examination, all students must remain in residence for at least three quarters, during which time they must enroll in twelve units of Music 299 (Advanced Research Projects and Independent Study) with their committee chair or members every quarter.

**Course Requirements**

In addition to the core graduate and Ph.D./D.M.A. curriculum, doctoral students (according to their area of emphasis) must complete the following courses prior to the qualifying examination:

**COMPOSITION**

1. Music 201 (A, B, C, D, E, or F)—must take at least two times.

2. Music 203A-B-C—successful completion of the jury process is necessary to get a passing grade in the corresponding seminar. Continuing students from the UCSD Composition M.A. program may be excepted from Music 203B-C by successfully completing Music 203A at the Ph.D. level.

3. Music 203D—after successful completion of 203C, students must enroll in Music 203D (with their committee chair) every quarter in residence.

4. Music 204—every quarter in residence.

5. Music 206 and/or 207—a combination of any three courses.

6. Music 209—must be taken at least three times.

7. Music 298—must complete at least six units.

**COMPUTER MUSIC**

1. Music 201 (A, B, C, D, E, or F)—must take at least two times.

2. Music 270A-B-C—must be taken within the first year of the program unless previously taken as a UCSD M.A. student.

3. Music 270D—after successful completion of 270C, students must enroll in Music 270D (with their committee chair) every quarter in residence.


**CRITICAL STUDIES/EXPERIMENTAL PRACTICES**

1. Music 201 (A, B, C, D, E, or F)—must take at least two times.


3. Music 206 and/or 207—a combination of any three courses.

4. Music 208A-B-C—must take within the first year of the program unless previously taken as a UCSD M.A. student.

5. Music 208D—required at least three times during the Ph.D. program.

6. Music 209—must be taken at least three times.

7. Music 298—must complete at least six units.

**PERFORMANCE**

1. Music 201 (A, B, C, D, E, or F) or 202—every quarter until completion of qualifying examination.

2. Music 206/207/209—as approved by D.M.A. adviser, a combination of any six seminars related to the primary and secondary area of specialization. Music 296 may be substituted for up to four seminars with permission of D.M.A. adviser.

3. Music 232—every quarter until completion of qualifying examination.


5. Music 250—must be taken at least three times.

6. Music 298—must complete at least six units.

**Qualifying Examination/Advancement to Candidacy**

Requirements prior to taking the qualifying examination:

1. Completion of all Ph.D./D.M.A. required course work.

2. For Ph.D. students, one research paper judged to be of publishable quality must be completed prior to qualifying examinations. The subject of the publishable paper will be developed during the student’s first two years and must be approved by the student’s Ph.D. committee chair.

3. For Composition students, in addition to the publishable paper, a folio of not fewer than three compositions (not previously accepted for an M.A. degree) must be completed prior to qualifying examinations. A Third Year Forum presents, under departmental auspices,
a work composed by each third-year Ph.D. composer in the four quarters since his or her second jury. As a part of preparation for this forum, each student composer is expected to have a faculty performer on his or her Ph.D. committee (as a regular member, or as an additional sixth member). The faculty performer is the student’s performance mentor and guide in interfacing with the performance community.

4. For D.M.A. students, one major recital; plus either (a) an abstract of the thesis or research project which will be given to the Doctoral Committee at the qualifying examination; or (b) a substantial portion of the works from the student’s first two “major recitals” will be presented at the qualifying examination.

The qualifying examination for all doctoral students will consist of the following:

• A written and oral defense of three questions provided by the Doctoral Committee pertaining to appropriate areas of specialization.

Ph.D./D.M.A. Degree Completion Requirements

1. For Composition students, completion of a major composition project.
3. For D.M.A. students, completion of a second major recital plus one of the following: (a) thesis or research project; or (b) a concert that is innovative in design and/or content, and which is supported by a document containing extensive stylistic or analytical discussion of the program; or (c) a lecture/concert pertaining to innovative and/or original material, with appropriate documentation as determined by the committee, or (d) two approved chamber music concerts with appropriate documentation as determined by the committee.

Materials previously submitted for other degrees are not acceptable for submission for the Ph.D./D.M.A. degree.

Time Limit Policy for the Doctoral Degree

NORMATIVE TIME LIMITS

4 years: Students entering the Ph.D./D.M.A. program with a master’s degree from another institution.
6 years: Students continuing into the Ph.D./D.M.A. program with a master’s degree from UCSD. Time limit is calculated from the beginning of the M.A. program (i.e., 2 years for M.A. program plus 4 years normative time for Ph.D./D.M.A.).

SUPPORT TIME LIMITS

6 years: Students entering the Ph.D./D.M.A. program with a master’s degree from another institution.
7 years: Students continuing into the Ph.D./D.M.A. program with a master’s degree from UCSD. Time limit is calculated from the beginning of the M.A. program

TOTAL REGISTERED TIME LIMITS

6 years: Students entering the Ph.D./D.M.A. program with a master’s degree from another institution.
8 years: Students continuing into the Ph.D./D.M.A. program with a master’s degree from UCSD. Time limit is calculated from the beginning of the M.A. program

Students who have not completed all Ph.D. requirements within the maximum total registered time will no longer be permitted to register for classes.

Advising Office

Graduate Staff Adviser
Lori Bantz, Room 109
Mandeville Center, (858) 534-3279
lbantz@ucsd.edu

COURSES

NOTE: The following course offerings outline the general scope of our program. Not all courses are offered every year. It is essential that students work closely with departmental advisers when planning their degree programs.

LOWER-DIVISION

1A-8-C. Fundamentals of Music (4-4-4)
Primarily intended for students without extensive musical experience, this course develops musical abilities through a conceptual understanding of the structure of music together with listening exercises and techniques. Topics include musical notation, melodic transcription, scales, chords, intervals, keys, rhythm, meter, and rudiments of musical form. Prerequisite: none.

2A-8-C. Basic Musicianship (4-4-4)

2AK-BK-CK. Basic Keyboard (2-2-2)
Scales, chords, harmonic progressions, transposition, and simple pieces. Prerequisites: concurrent enrollment in Music 2A, B, C.

2JK. Jazz Keyboard (2)
This course will introduce basic voicings and voice leading, stylistically appropriate accompaniment, and basic chord substitution. For majors with a Jazz and the Music of the African Diaspora emphasis to be taken concurrently with Music 2C. Prerequisites: Music 2AK and 2BK or passing proficiency exam, or consent of instructor. Concurrent enrollment in Music 2C. Majors only.

4. Introduction to Western Music (4)
A brief survey of the history of Western Music from the Middle Ages to the present. Much attention will be paid to the direct experience of listening to music and attendance of concerts. Class consists of lectures, listening labs, and live performances. Prerequisite: none.

5. Introduction to Music Making (4)
A one-quarter course designed to discover musical potential and expand musical experience. No knowledge of music, notation, or instrumental skill is necessary. Small lab sessions present music through composing, improvising, and performing. Results take the form of works for tape, theatre, voices, or instruments. Prerequisite: none.

6. Electronic Music (4)
Lectures and listening sessions devoted to the most significant works of music realized through the use of computers and other electronic devices from the middle of this century through the present. Prerequisite: none.

Exploration of the interactions among music, science, and technology, including the history and current development of science and technology from the perspective of music. Prerequisite: none.

8. American Music (4)
A course designed to study the development of music in America. The focus will be on both the vernacular traditions including hymn singing, country music, jazz, big band, rock, etc., as well as the cultivated traditions of various composers from William Billings to John Cage. Prerequisite: none. (Offered in selected years.)
9. Symphony (4)
The symphonic masterworks course will consist of lectures and listening sessions devoted to a detailed discussion of a small number of recognized masterworks (e.g., Mozart, Beethoven, Berlioz, Stravinsky, Ligeti, etc.). Prerequisite: none. (Offered in selected years.)

10. Chamber Music (4)
Chamber Music will consist of lectures and listening sessions devoted to a detailed discussion of recognized chamber masterworks (e.g., Haydn, Mozart, Beethoven, Bartok, etc.). Prerequisite: none. (Offered in selected years.)

11. Folk Music (4)
A course on folk musics of the world, covered through lectures, films, and listening sessions devoted to detailed discussion of music indigenous to varying countries/areas of the world. Topics vary from year to year. May be repeated once for credit. Prerequisite: none.

12. Opera (4)
A study of opera masterworks that often coincide with operas presented in the San Diego Opera season. Class consists of lectures, listening labs, live performances, and opera on video. Prerequisite: none.

13A.F. World Music/Africa (4)
A course that focuses on the music of Africa and on African ways of music making in the Diaspora to the Caribbean and South America. No prior technical knowledge of music is necessary. Prerequisite: none.

13A.M. World Music/Multicultural America (4)
A study of music cultures in the United States, particularly Native American, Hispanic American, European American, Asian American, and Pacific Islanders from the perspective of ethnicity, origin, interaction, and the contribution of various ethnic groups to American musical life. No prior technical knowledge of music is necessary. Prerequisite: none.

13A.S. World Music/Asia and Oceania (4)
Introduction to selected performance traditions of Asia and Oceania with links to local and visiting musicians from these cultures. No prior technical knowledge of music is necessary. Prerequisite: none.

14. Contemporary Music (4)
This course offers opportunities to prepare oneself for experiences with new music (through preview lectures), hear performances (by visiting or faculty artists), to discuss each event informally with a faculty panel: an effort to foster informed listening to the new in music. Prerequisite: none.

15. Popular Music (4)
A course on popular music from different time periods, covered through lectures, films, and listening sessions. Topics vary from year to year. May be repeated once for credit. Prerequisite: none.

32. Instrumental/Vocal Instruction (2)
Individual instruction on intermediate level in instrumental technique and repertory. For declared music majors and minors. Students must be simultaneously enrolled in a performance ensemble or non-performance music course. May be taken six times for credit. Prerequisites: audition and department stamp.

32G. Group Instrumental Instruction (2)
Group instruction in instrumental or vocal technique and repertory. Intermediate level. Intended for students who make an important contribution to Department of Music ensembles. Prerequisites: Written recommendation of ensemble director and audition for performance faculty on first day of classes required. Department stamp required. May be taken for credit six times. (Offered in selected years)

32V. Vocal Instruction (1)
Individual instruction on intermediate level in vocal technique and repertory. For declared music majors and minors. Students must be simultaneously enrolled in a performance ensemble or non-performance music course and in Music 32VM. May be taken six times for credit. Prerequisites: audition and department stamp.

32VM. Vocal Masterclass (1)
All students enrolled in voice lessons (32, 132, or 132C) perform for one another and their instructors. Students critique in-class performances, with emphasis on presentation, diction, dramatic effect, vocal quality, and musicality. Prerequisite: concurrent enrollment in Music 32, 132V or 132C.

33. Introduction to Composition (4)
This course is intended to provide the prerequisite knowledge necessary to pursue an emphasis in composition. Topics covered will include notation, calligraphy, instrumentation, orchestration, and twentieth-century music literature. Prerequisite: Music 2A and 2B or consent of instructor.

87. Freshman Seminar (1)
The Freshman Seminar Program is designed to provide new students with the opportunity to explore an intellectual topic with a faculty member in a small seminar setting. Freshman seminars are offered in all campus departments and undergraduate colleges, and topics vary from quarter to quarter. Enrollment is limited to 15 to 20 students, with preference given to entering freshmen.

95. Ensemble Performance (2)
Performance in an ensemble appropriate to student abilities and interests. Normally each section requires student participation for the whole academic year, with credit for participation each quarter. Sections of Music 95W have included: African drumming, Korean percussion, Indian sitar and tabla, koto, and Indonesian flute. Not all sections will be offered every year. May be repeated for credit. Grading on participation level, individual testing, comparative papers on repertoire covered, etc. Prerequisites: audition and consent of instructor for each section.

Note: Students in the Music 95 series courses may enroll with a letter grade option a total of twelve units for registered music majors and a total of six units for all other students; after which students may continue to enroll in Music 95 courses, but only with a P/NP grade option. There is one exception to the above grading policy. Music 95G, Gospel Choir, can only be taken for a P/NP grading option.

Section B. Instrument Choir (Not offered every year.)
Section C. Concert Choir
Section D. Symphonic Chorus
Section E. Chamber Orchestra
Section G. Gospel Choir
Section H. Chamber Opera (Not offered every year.)
Section J. Jazz Ensemble
Section K. Chamber Singers

Section L. Wind Ensemble

Section W. World Music Ensembles

ICAM 40. Introduction to Computing in the Arts (4)
(Cross-listed with VIS 40.) Introduction to conceptual uses and historical precedents for use of computers in art making. Introduces students to the program's computer facilities and teaches them basic computer skills. Prerequisite: Visual Arts and ICAM minors and majors only. NOTE: Materials Fee required.

UPPER-DIVISION

101A-B-C. Music Theory and Practice I (4-4-4)
Study of the materials and structures of music through hearing, analysis, writing, and performance. Writing in two voices (101A) and four voices (101B-C). Continues sight reading, dictation, and keyboard. Prerequisites: Music 2A and 2B and passing grade on proficiency exam.

102A-B-C. Music Theory and Practice II (4-4-4)

103A-B-C. Seminar in Composition (4-4-4)
Individual projects in composition will be critically reviewed in seminar with fellow student and faculty composers. Prerequisites: Music 2A-B-C and 33.

103D-E-F. Honors Seminar in Composition (4-4-4)
Advanced individual projects for senior music majors pursuing honors in composition. Projects will be critically reviewed in seminar with fellow students and faculty composers. Prerequisites: Music 103A-B-C and admission into the Department of Music Honors Program in composition. Department stamp required.

104. Jazz Transcription and Analysis (4)
An introduction to the practice of transcribing and analyzing improvised music. Discussion of music technique, style, aesthetics, and the ideology of transcription. Prerequisites: Music 101A and 101B.

105. Jazz Composition (4)
This course will explore a range of compositional possibilities from song forms to modal and more extended forms. May be repeated once for credit. Prerequisite: Music 104 or consent of instructor.

107. Critical Studies Seminar (4)
Explore music in relation to various traditions of critical thought and their methodologies, such as in literature, cultural studies, sociology, and philosophy. Readings and scores to be determined by the professor. Prerequisite: upper-division standing or consent of instructor.

110. Doing Ethnomusicology (4)
A how-to course in the practice and theory of studying the music of contemporary cultures. Students will record, document, analyze, and present music from their local environment. Designed for students in music, ethnic studies, anthropology, and the social sciences. Prerequisite: none. (Offered in selected years.)

111. Topics/World Music Traditions (4)
A study of particular regional musics in their repertory, cultural context, and interaction with other traditions. Topics vary. Prerequisite: none.
112. Topics in European Music Before 1750 (4)
This course will address topics in medieval, Renaissance, and Baroque music; topics will vary from year to year. May be repeated five times for credit. Prerequisites: knowledge of music notation or consent of instructor; Music 4, 8-10 or 120 recommended.

113. Topics in Classic, Romantic, and Modern Music (4)
This course will focus on Western music between 1750 and the early 20th century; topics will vary from year to year. May be repeated five times for credit. Prerequisites: knowledge of music notation or consent of instructor; Music 4, 8-10 or 120 recommended.

114. Music of the Twentieth Century (4)
An exploration of materials and methods used in the music of our time. There will be an extra discussion group for music majors. May be repeated once for credit. Prerequisites: none.

115. Women in Music (4)
A survey of the biographical, historical, sociological, and political issues affecting women musicians, their creativity, their opportunities, and their perception by others. It compares and contrasts the work of women composers, performers, patrons, teachers, and writers on music from the Middle Ages through the present. Prerequisite: consent of instructor.

120A-B-C. Survey of Music History and Literature (4-4-4)
Intensive historical, analytical, and cultural-esthetic examination of music from Gregorian chant through the twentieth century. Prerequisites: knowledge of music notation; Music 1C or 2C strongly recommended.

126. Blues: An Oral Tradition (4)
This course will examine the development of the Blues from its roots in work-songs and the minstrel show to its flowering in the Mississippi Delta to the development of Urban Blues and the close relationship of the Blues with Jazz, Rhythm and Blues, and Rock and Roll. (Cross-listed with Ethnic Studies 178.) Prerequisite: none.

127A. Jazz Roots and Early Development (1900–1943) (4)
This course will trace the early development of Jazz and the diverse traditions which helped create this uniquely American art form. We will witness the emergence of Louis Armstrong in New Orleans and examine the composer’s role in Jazz with Jelly Roll Morton and Duke Ellington. (Cross-listed with Ethnic Studies 179A.) Prerequisite: none.

127B. Jazz Since 1946: Freedom and Form (4)
This course will examine the evolution of Jazz from 1943 to the present. The course will survey the contrasting and competing styles in Jazz from BEBOP to COOL to the avant garde and fusion. (Cross-listed with Ethnic Studies 179B.) Prerequisite: none.

128. Principles and Practice of Conducting (4)
The theory and practice of instrumental and/or choral conducting as they have to do with basic baton techniques, score reading, interpretation, orchestration, program building, and functional analysis. Members of the class will be expected to demonstrate their knowledge in the conducting of a small ensemble performing literature from the eighteenth, nineteenth, and twentieth centuries. Prerequisites: Music 2A-B-C and 101A-B-C. Department stamp required.

129. Orchestration (4)
This course will give practical experience in orchestration. Students will study works from various eras of instrumental music and will demonstrate their knowledge by orchestrating works in the styles of these various eras, learning the capabilities, timbre, and articulation of all the instruments in the orchestra. Prerequisite: Music 101B.

130. Chamber Music Performance (2-4/0)
Instruction in the preparation of small group performances of representative instrumental and vocal chamber music literature. May be taken for credit six times, after which students must enroll for zero units. Prerequisite: consent of instructor through audition.

131. Advanced Improvisation Performance (4/0)
Master class instruction in advanced improvisation performance for declared majors and minors only or consent of instructor. Audition required at first class meeting. May be repeated six times for credit. Prerequisites: consent of instructor through audition. Depart- ment stamp required.

132. Pro-Seminar in Instrumental Instruction (4)
Individual or master class instruction in advanced instrumental performance. For declared music majors and minors. Students must be simultaneously enrolled in a performance ensemble or non-performance music course. May be taken six times for credit. Prerequisites: audition and department stamp.

132C. Vocal Coaching (3)
Individual instruction in advanced vocal coaching. Emphasis placed on diction and musical issues. For declared music majors and minors. Students must be simultaneously enrolled in the Vocal Masterclass, Music 32VM. May be taken six times for credit. Prerequisites: at least one quarter of Music 132V and consent of instructor. Department stamp required.

132R. Recital Preparation (4)
Advanced instrumental/vocal preparation for senior music majors pursuing honors in performance. Repertoire for a solo recital will be developed under the direction of the appropriate instrumental/vocal faculty member. Special audition required during Welcome Week preceding fall quarter. Prerequisites: by audition only; Music 132. Department stamp required.

132V. Pro-Seminar in Vocal Instruction (3)
Individual instruction in advanced vocal performance. For declared music majors and minors. Students must be simultaneously enrolled in a performance ensemble or non-performance music course and in the Vocal Masterclass, Music 32VM. May be taken six times for credit. Prerequisites: audition and department stamp.

133. Projects in New Music Performance (4)
Performance of new music of the twentieth century. Normally offered winter quarter only. Required a minimum of one time for all music majors. May be taken two times for credit. Prerequisite: consent of instructor through audition.

134. Symphonic Orchestra (4)
Repertoire is drawn from the classic symphonic literature of the eighteenth, nineteenth, and twentieth centuries, with a strong emphasis on recently composed and new music. Distinguished soloists, as well as The La Jolla Symphony Chorus, frequently appear with the orchestra. The La Jolla Symphony Orchestra performs two full-length programs each quarter, each program being performed twice. May be repeated six times for credit. Prerequisites: audition and department stamp required.

137 A-B-C. Jazz Theory and Improvisation (4-4-4)
Study of jazz theory and improvisation, focused on fundamental rhythmic, harmonic, melodic, and formal aspects of modern jazz style. Application of theoretical knowledge to instruments and concepts will be reinforced through listening, transcription work, and composition and improvisation exercises. Prerequisites: Music 2A-B-C, proficiency exam, or consent of instructor.

143. Department Seminar (1)
The department seminar serves both as a general department meeting and as a forum for the presentation of research and performances by visitors, faculty, and students. Required of all undergraduate music majors every quarter.

150. Jazz and the Music of the African Diaspora: Special Topics Seminar (4)
An in-depth writing and listening intensive investigation into a jazz or diaspora-related music history topic. Topics vary from year to year. May be repeated once for credit. Prerequisite: Music 126, 127A-B, or consent of instructor.

151. Race, Culture, and Social Change (4)
Aggrieved groups generate distinctive cultural expressions by turning negative ascription into positive affirmation and by transforming segregation into congregation. This course examines the role of cultural expressions in struggles for social change by these communities inside and outside the U.S. (Cross-listed with Ethnic Studies 108.) Prerequisite: upper-division standing or consent of instructor.

152. Hip Hop: The Politics of Culture (4)
Examination of hip-hop’s music, technology, lyrics, and its influence in graffiti, film, music video, fiction, advertising, gender, corporate investment, government and censorship with a critical focus on race, gender, popular culture, and the politics of creative expression. (Cross-listed with Ethnic Studies 128.) Pre-requisite: upper-division standing or consent of instructor.

153. African Americans and the Mass Media (4)
Examination of media representations of African Americans from slavery to the present focusing on emergence and transmission of enduring stereotypes, their relationship to changing social, political, and economic frameworks, and African Americans’ responses to and interpretations of these mediated images. (Cross-listed with Ethnic Studies 164.) Prerequisite: upper-division standing or consent of instructor.

154. Black Musicic/Black Texts: Communication and Cultural Expression (4)
Explores roles of music as a traditional form of communication among Africans, Afro-Americans, and West Indians: Special attention given to poetry of black music, including blues and other forms of vocal music expressive of contestatory political attitudes. (Cross-listed with Ethnic Studies 176 and Literature in English 187.) Prerequisite: upper-division standing or consent of instructor.

170. Musical Acoustics (4)
(Formerly Music 160A) An introduction to the acoustics of music with particular emphasis on contemporary digital techniques for understanding and manipulating sound. Prerequisites: Music 1A, 2A, or 4. Cross-listed with ICAM 103.)
171. Computer Music I (4) (Formerly Music 160C) A practical introduction to computer techniques for desktop audio, including audio editing, MIDI control, and real-time music algorithms using the MAX programming environment. Prerequisite: Music 170; music majors, ICAM-music and ICAM-visual arts majors and minors, or consent of instructor.

172. Computer Music II (4) (Formerly Music 161) Computer synthesis techniques including wavetable and additive synthesis, wave shaping, and sampling. Transformation of musical sounds using filters, modulation, and delay effects. Fourier analysis of sounds. Prerequisite: Music 171 (formerly Music 160C); music majors, ICAM-music and ICAM-visual arts majors and minors, or consent of instructor.

173. Audio Production: Mixing and Editing (4) (Formerly Music 162) Theoretical and practical aspects of recording, mixing, and editing sound for both musical and multimedia applications. Covers audio montage, equalization, effects processing, spatialization, mastering, and diffusion. Prerequisite: Music 170 (formerly Music 160A); music majors, ICAM-music and ICAM-visual arts majors and minors, or consent of instructor.

174. Recording/MIDI Studio Techniques (2-2-2) (Formerly Music 164) This sequenced course surveys hardware and software resources in an advanced analog/digital audio and media studio. It is a required course for anyone who wishes to use the B108 Studio. Topics include: electronic and computer music, digital and analog audio signal mixing and manipulation, studio devices, interfacing, compositional applications, MIDI, synchronization, performance and studio techniques. Student projects demonstrate mastery of techniques studied. 174A: signals, mics, device based recording, mixing, monitoring; 174B: digital audio workstations, computer-based mixing and editing, soundfile transformation; 174C: MIDI, synchronization, sound-for-picture. Prerequisites: MUS 174A: MUS 170; MUS 174B: MUS 174A; MUS 174C: MUS 174B; music majors, ICAM-music and ICAM-visual arts majors and minors, or consent of instructor.


176. Music Technology Seminar (4) (Formerly Music 163) Selected topics in music technology and its application to composition and/or performance. Offerings vary according to faculty availability and interest. May be repeated for credit. Prerequisites: Music 172 (formerly Music 161) and consent of instructor.

195. Instructional Assistance (2) Assisting in the instruction of an undergraduate music class under the direct and constant supervision of a faculty member. May be taken for credit three times. Prerequisites: consent of instructor and departmental approval.

198. Directed Group Study (1-4) Concentrated inquiry into various problems not covered in the usual undergraduate courses. Prerequisites: consent of instructor and department chair approval. Pass/No Pass grade only.

199. Independent Study (1-4) Independent reading, research, or creative work under the direction of a faculty member, provided no course covering the material to be studied already exists, and the study area derives from previous course work. Prerequisites: consent of instructor and department chair approval. Department stamp required. Pass/No Pass grade only. May be taken for credit two times.

ICAM 101. Digital Imaging: Image and Interactivity (4) (Cross-listed with VIS 140). An introduction to digital image processing, image acquisition, and image manipulation. Prerequisites: VIS 140 or VIS 145A. Open to media, ICAM, and studio majors; computing and ICAM minors only.

ICAM 102. Digital Media I: Time, Movement, Sound (4) (Cross-listed with VIS 145A). Exploration of time dependent media components. Creation and manipulation of digital sound as well as moving images and their integration in multimedia works. Use of computer programming to control time is emphasized. Materials fee required. Prerequisites: VIS 140 or ICAM 101. Open to media, ICAM, and studio majors; ICAM minors only.


ICAM 110. Computing in the Arts: Current Practice (4) Designed around the presentations by visiting artists, critics, and scientists involved with contemporary issues related to computer arts. Lectures by the instructor and contextual readings provide background material for the visitor presentations. Prerequisites: none. Note: Materials fee required.

ICAM 120. Virtual Environments (4) Students create virtual reality artworks. Projects may be done individually or in groups. Exploration of theoretical issues involved will underlie acquisition of techniques utilized in the construction of virtual realities. Materials fee required. Prerequisites: VIS 145A or ICAM 102; CSE 11 recommended. Open to ICAM majors and minors only. Two production course limitation.

ICAM 130. Seminar in Contemporary Computer Topics (4) (Cross-listed with VIS 149). Topics relevant to computer-based art- and music-making, such as computer methods for making art/music, design of interactive systems, spatialization of visual/musical elements, critical studies. Topics will vary. May be repeated twice. Materials fee required. Prerequisites: VIS 145A or ICAM 101; VIS 145A or ICAM 102 and MUS 170 or ICAM 103 recommended. Open to media and ICAM majors; ICAM minors only. Two production course limitation.

ICAM 150. History of Art and Technology (4) (Cross-listed with VIS 159). This course aims to provide historical context for computer arts by examining the interaction between the arts, media technologies, and sciences in different historical periods. Topics vary. Examples of topics which may be considered are: Renaissance perspective, the introduction of the printing press, the history of visual illusion in Western art, new physics and the avant-garde in the early twentieth century, futurism and technology, early electronic and computer art of the 1950s and 1960s. Prerequisite: none. Note: Materials fee required.

ICAM 160A. Senior Projects in Computer Arts I (4) Students pursue projects of their own design over two quarters with support from faculty in a seminar environment. Project proposals are developed, informed by project development guidelines from real world examples. Collaborations are possible. Portfolio required for admissions. Prerequisites: VIS 141B or VIS 145B or MUS 172. Open to ICAM majors only. Department stamp required. Two production course limitation.

ICAM 160B. Senior Projects in Computer Arts II (4) Continuation of ICAM 160A. Completion and presentation of independent projects along with documentation. Prerequisite: ICAM 160A. Open to ICAM majors only. Department stamp required. Two production course limitation.

ICAM 199. Special Studies (2-4) Independent reading, research or creative work under direction of faculty member. Prerequisites: department stamp and upper-division standing required.

GRADUATE

All courses numbered 200 and above are intended for students admitted to the graduate program in music.


202. Advanced Projects in Performance (1-4) Advanced performance of new music with members of the performance faculty (SONOR). Students taking this course do not need to take Music 201 that quarter. Enrollment by consent of instructor/director of SONOR.

203A-B-C. Advanced Projects in Composition (6-6-6) Meetings and laboratory sessions devoted to the study of composition.

203D. Advanced Projects in Composition (1-4) Meetings on group basis with faculty composer in sessions devoted to the study of composition. Prerequisites: 203A-B-C and consent of instructor.

204. Focus on Composition (2) The purpose of this seminar is to bring together the entire population of the graduate composition program (all students and faculty) for in-depth discussion of critical issues in music theory and composition. Each meeting will feature a formal presentation by either a student, faculty member, or visitor, followed by lively and challenging debate on relevant issues. Prerequisite: consent of instructor.

205. Focus on Critical Studies/Experimental Issues in Music (2) The purpose of this seminar is to bring together CS/EP students and faculty for in-depth discussion(s) of theoretical, critical, and cultural issues in music. In conjunction with the seminar, each student not yet advanced to candidacy will meet with a faculty adviser to plan and prepare a presentation of his or her own work as part of a one-day CS/EP student symposium during the spring quarter.
206. Experimental Studies Seminar  (4) Seminars growing out of current faculty interests. The approach tends to be speculative and includes individual projects or papers as well as assigned readings. In the past, such areas as new instrumental and vocal resources, mixed media, and compositional linguistics have been offered.

207. Theoretical Studies Seminar  (4) Seminars on subject areas relating to the established dimensions of music and in which theoreticians have produced a substantial body of work. These include studies in analysis, timbre, rhythm, notation, and psychoacoustics. Offerings vary depending on faculty availability and interest. Analytical paper required.

208A. Critical Methods and Creative Identities  (4) The goal of this course is to develop critical thinking and self-reflexive inquiry through study of a diverse range of critical and scholarly traditions as they relate to music. Students are encouraged to investigate their own sense of identity and voice, as embodied in their creative work. Prerequisite: consent of instructor.

208B. Experimental Musical Practices  (4) This course examines, from social, cultural, historical and technological perspectives the current state of experimental musical practice. Meetings and laboratory sessions will explore alternative systems of musical organization, such as improvisation, computer-based multimedia, and interdisciplinary performance collaboration. Prerequisite: consent of instructor.

208C. World Musical Perception  (4) This seminar attempts to develop alternative procedures for the analysis of intercultural musicality. Methods and practices to be explored will involve computer technology, musical cognition and perception, and world music practices, as these relate to the elucidation and interrogation of notions of self and other, and tradition and innovation. Prerequisite: consent of instructor.

208D. Advanced Projects in CS/EP  (1-4) On a group or individual basis, this course provides an opportunity for students to create projects under the guidance of different faculty members each term. Enrollment in this course culminates in the development by the student of a portfolio of original work, or in a master’s thesis. Prerequisite: consent of instructor.

209. Advanced Music Theory and Practice  (4) Advanced integrated studies in music theory; composition and styles study through analysis and performance. This course is intended primarily for doctoral students and may be taken by M.A. students only with special approval of M.A. adviser and course instructor. A major research or analytical publishable paper required.

210. Musical Analysis  (4) The analysis of complex music. The course will assume that the student has a background in traditional music analysis. The goal of the course is to investigate and develop analytical procedures that yield significant information about specific works of music, old and new. Reading, projects, and analytical papers. Normally offered fall quarter only.

228. Conducting  (4) This course will give practical experience in conducting a variety of works from various eras of instrumental and/or vocal music. Students will study problems of instrumental or vocal techniques, formal and expressive analysis of the music, and manners of rehearsal. Required of all graduate students. Prerequisite: consent of instructor. (Offered in selected years.)

229. Seminar in Orchestration  (4) A seminar to give practical experience in orchestration. Students will study works from various eras of instrumental music and will demonstrate their knowledge by orchestrating works in the styles of these various eras, learning the capabilities, timbre, and articulation of all the instruments in the orchestra. Prerequisite: graduate standing. (Offered in selected years.)

230. Chamber Music Performance  (4) Performance of representative chamber music literature, instrumental and/or vocal, through coached rehearsal and seminar studies. Course may be repeated for credit since the literature studied varies from quarter to quarter. Prerequisite: consent of instructor.

232. Pro-Seminar in Music Performance  (4) Individual or master class instruction in advanced instrumental/vocal performance. Prerequisite: consent of instructor through audition.

234. Symphonic Orchestra  (4) Repertoire is drawn from the classic symphonic literature of the eighteenth, nineteenth, and twentieth centuries with a strong emphasis on recently composed and new music. Distinguished soloists, as well as The La Jolla Symphony Chorus, frequently appear with the orchestra. The La Jolla Symphony Orchestra performs two full-length programs each quarter, each program being performed twice. May be repeated six times for credit. Prerequisites: audition and department stamp required.

245. Focus on Performance  (2) The purpose of this seminar is to bring together performance students, faculty, and guests for discussion, presentation of student and faculty projects, performances by guest artists, and master classes with different members of the performance faculty. Prerequisite: consent of instructor.

250. Special Projects  (1-12) An umbrella course offered to music graduate students in lieu of normal seminar offerings. Topics will be generated by faculty and graduate students and submitted in December each year for review by faculty. Students may register for up to four units of a specialized research topic with given faculty. May be taken for up to twelve units a quarter.

267. Advanced Music Technology Seminar  (4) Advanced topics in music technology and its application to composition and/or performance. Offerings vary according to faculty availability and interest. May be repeated for credit. Prerequisites: Music 173 or equivalent and consent of instructor.


270D. Advanced Projects in Computer Music  (4) Meetings on group basis with computer music faculty in support of individual student research projects. Prerequisites: consent of instructor and completion of Music 270A-B-C.

271. Survey of Electronic Music Techniques  (2) A hands-on encounter with several important works from the classic electronic repertoire, showing a representative subset of the electronic techniques available to musicians. Intended primarily for students in areas other than computer music. Prerequisite: none. (S/U grade option only.)

279. Problems and Methods of Music Research and Performance  (2) The course will give practical experience in historical research, including use of important source materials, editing of editions, and examination of performance practice problems. (S/U grade option only.)

292. Academic Writing  (1-4) Individual and/or group work on particular academic writing projects in music. Prerequisite: consent of instructor.

296. Directed Group Research in Performance  (4) This group research seminar involves the investigation and exploration of new and experimental performance concerns. Areas could include: improvisation, graphic notation, performance electronics, and working with combined media (such as dance, poetry, and theater). (S/U grade option only.)

298. Directed Research  (1-4) Individual research. (S/U grades permitted.) May be repeated for credit. Enrollment by consent of instructor only.

299. Advanced Research Projects and Independent Study  (1-12) Individual research projects relevant to the student’s selected area of graduate interest conducted in continuing relationship with a faculty adviser in preparation of the master’s thesis or doctoral dissertation. (S/U grades permitted.)

500. Apprentice Teaching  (1-4) Participation in the undergraduate teaching program is required of all graduate students at the equivalent of 25 percent time for three quarters (six units is required for all graduate students).

501. Apprentice Teaching—Nondepartmental  (4) Consideration and development of pedagogical methods appropriate to undergraduate teaching.