Music

Chair
Emily I. Dolan

The study of music—a phenomenon known to all people in all ages—lies naturally at the heart of a liberal education. The Department of Music at Brown provides an ideal environment for such an education, with its integrated faculty of scholars, performers, composers, and theorists. The curriculum of the Department of Music combines studies in history, theory, ethnomusicology, and musicianship with courses in composition, technology, and performance. Application merges with analysis, creation with cultural study, and multimedia experiments with broad meditations on sound, in a unique department that welcomes all.

For additional information, please visit the department’s website: https://www.brown.edu/academics/music/

Music Concentration Requirements

The concentration in Music integrates theory, history, ethnomusicology, technology, composition, and performance. Upon completing two foundational courses in theory and musicianship, concentrators have the flexibility to craft an intellectual pathway based on their particular interests and goals. The curriculum is supported by the Orwig Music Library, a state-of-the-art facility with holdings of over 40,000 books and scores and an equal number of sound and video recordings. Concentrators are encouraged to participate in one or more of the departmentally sponsored performing organizations: Chorus, Orchestra, Jazz Band, Wind Symphony, Chamber Music Performance, Electroacoustic Ensemble, Sacred Harp/Shape-Note Singing, Old-time String Band, Javanese Gamelan, or Ghanaian Drumming.

Concentrating in Music

If you choose Music as a Concentration*, you will be expected to achieve well-rounded training as a musician, regardless of the genre(s) in which you specialize. This training is manifested in the following general components:

- **Fundamental skills** are important for any musician, and therefore a minimum of two music theory/musicanship courses are required of all students who wish to Concentrate. Students have the opportunity to enter into various theory courses according to their interest and experience.
- **Historical and cultural knowledge** of music is another key area from which Concentrators are required to complete courses. These courses may be studies of Western or non-Western forms of music.
- The **creation of music** is also central to the Music Concentration. Students are encouraged to make music in a number of ways, including participation in ensembles, solo performance, composition, music production, and/or conducting.
- Music faculty will be available to advise students on shaping the flexible parts of their Concentration and achieving their goal at Brown.

Students who declare a concentration prior to Fall 2019 can view concentration requirements here: https://bulletin.brown.edu/archive/2018-19/the-college/concentrations/musc/

Music Theory

- Two courses in music theory, which may include one 400-level and one 500-level course, or two 500-level courses.

Music Scholarship, Production and Advance Theory

A minimum of four upper-level courses above 1000, must include:

- One upper-level course in musicology or ethnomusicology
- Any three upper-level courses, including graduate-level courses

Additional Electives (according to student interest)

Four additional elective courses, may include:

- Up to four half-credit courses in performance - AMP music instruction and/or Ensemble Participation (2 credits)

- Up to two courses outside of the department
- One music course below the 1000 level

Senior Project

All music concentrators will choose a culminating experience for their senior year, either a capstone project or honors project. This may take the form of a performance, scholarly study, or original creative work. All students will have a primary advisor for their Senior Project. The work may be done independently of a course for credit, as an independent study, or within the framework of an existing course.

Honors in Music (optional)

Faculty Rules stipulate “Brown University shall, at graduation, grant honors to students whose work in a field of concentration has demonstrated superior quality and culminated in an honors thesis of distinction.” In order to apply for Honors in Music, a student must fulfill the following criteria:

1. The student must have acquired a 3.5 cumulative grade point average overall.
2. The student must also have acquired a 3.5 cumulative grade point average in courses that count toward the concentration. (“S with distinction” equates with “A”. Grades of “S” are not computed in the grade point average.)

Departmental Procedures:

The Department designates three kinds of projects leading to honors in music:

1. Research project in history, theory, or ethnomusicology.
2. Performance project accompanied by pertinent research of lesser scope than (a). (Scholarly program notes required)
3. Composition/Computer Music project. (score required if applicable; recording and/or video documentation desired, short project description)

NOTE: the term HONORS COMMITTEE refers to a student’s honors thesis advisor and readers.

A student wishing to propose a project should proceed as follows:

1. An honors candidate must secure a faculty advisor and a second reader to serve as an honors committee for his or her project by the end of the year before graduation—typically, the end of the sixth semester. At the beginning of the penultimate semester the student will submit a proposal describing the project to the honors committee for approval. The proposal must receive committee approval and be given to Mary Rego for distribution to the full faculty by the first day of the first full week of classes of the semester. The department faculty will vote on the proposals at the next regularly scheduled meeting. Decisions will be based on the student’s overall performance in music courses and on the quality of the proposal. The advisor will notify the student of the faculty’s decision.

2. It is expected that honors projects will normally take two semesters to complete. Students pursuing honors may choose to register for MUSC 1970 in the Fall and/or in the Spring. In any case, they will establish a series of regular meetings with their advisor. By finals week of the penultimate semester, honors candidates must demonstrate substantial progress by submitting to the honors committee a partial draft of a paper or composition or, for performance projects, by playing a significant portion of the programmed repertoire. Failure to make sufficient progress may result in the termination of the honors project.

3. Last semester deadlines: Honors candidates must submit a complete draft to their honors committee by the first day of classes following the eighth week of the last semester. The committee will comment on the project and suggest revisions. Revisions must be completed, and the final project submitted to the honors committee by the first day of classes two weeks later. In the case of performance projects, this means that both the public performance and the scholarly component must have been completed by this date. In the case of research projects, all figures, notes, bibliography, and other critical apparatus must have been completed. Failure to make the deadline may result in the forfeiting of honors by the candidate, though the student may complete the project as a capstone project.

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4. The honors committee will confer to determine their views on their projects. If the second reader is outside Music, the advisor may solicit a written recommendation about the merits of the project.
5. The advisor will deliver a copy of the completed thesis to the Mary Rego by the middle of the eleventh week of the last semester so that it may be made available for review by the full faculty. (Online, or hard copy on reserve in the Music Library.)
6. During the twelfth week of the last semester, the advisor will report on the project at a meeting of the Department faculty for a vote. The advisor will notify the student of the faculty’s decision.
7. Honors recipients will present their projects at a Department of Music Convocation held once annually at noon on the first day of final examination period in Semester II.

**Music Graduate Program**

The Department of Music currently offers the Ph.D. in Music in two areas of study: Musicology & Ethnomusicology (https://www.brown.edu/academics/music/graduate/musicology) and Music & Multimedia Composition (https://www.brown.edu/academics/music/graduate/composition). The long-standing doctoral program in Ethnomusicology, established in 1968, is one of the first in the country. It was combined with the study of Musicology in 2018. The Composition doctoral program had previously been known as Computer Music & Multimedia (or MEME) since it became a fully-funded Ph.D. in 2004. The small size of both programs allows for significant cross-talk between the students.

For more information on admission and program requirements, please visit the following website:

https://www.brown.edu/academics/gradschool/programs/music-and-multimedia-composition

https://www.brown.edu/academics/gradschool/programs/musicology-and-ethnomusicology

**Courses**

**MUSC 0010. Music in History, from Hildegard to Hamilton.**
A study of a thousand years of music of Europe and America through CDs, DVDs, and YouTube. We'll explore how individuals, institutions, and societies create music, use it, experience it, pay for it, and control it. We'll discuss music and time, music and politics, music and identity. Still, the heart of the course is listening to great music, and learning how it works.

**MUSC 0020. Popular Music in Society.**
Critical survey of a variety of contemporary American popular music styles (including rock’n’roll, folk revival, heavy metal, progressive rock, reggae, punk, rap, world beat) and their sociocultural contexts. Aural analysis of musical examples and critical reading of media texts, with study of the music’s relationship to commerce, racial and ethnic identity, subculture, gender, and politics.

**MUSC 0021A. The Changing Broadway Musical.**
Can the history of the musical on (or near) Broadway provide useful insight into changing American values? Starting with Show Boat (1927), this course offers a multi-faceted analysis of one significant musical from each subsequent decade. Students choose the examples and direct the analysis of shows from the 1980s, 1990s, and if time permits, the 2000s. Enrollment limited to 19 first year students.

**MUSC 0021B. Reading Jazz.**
This course will explore the musical aesthetics of jazz in texts about its world. Students will listen to music and read poetry, fiction, autobiography and criticism to investigate techniques (including improvisation, rhythm, timbre and articulation), which authors such as Langston Hughes, Ralph Ellison, Charles Mingus, Stanley Crouch and Jack Kerouac employed to describe and support a creative community. Enrollment limited to 19 first year students.

Fall MUSC0021ES01 16701 Th 4:00-6:30(04) (M. McGarrell)

**MUSC 0021C. Bach.**
The course will explore the life and work of J. S. Bach, with an emphasis on his place in the Baroque era, and his influence on later composers. Topics will include issues of performance practice, surviving source material, and performance issues in our own time. Students will listen to music, live and recorded, compare several biographies, and explore the world of Bach criticism. Enrollment limited to 19 first year students.

**MUSC 0021D. Latino Diaspora Music.**
This first-year seminar will explore the discipline of ethnomusicology and the cultural diversity of the Americas through the lens of Latin American music. Readings will focus on popular music and dance genres that originated in the Caribbean and Mexico and are now practiced in North American diaspora contexts. Students will undertake individual ethnographic projects on a wide variety of Latino diaspora music traditions, to be documented via publicly-accessible research blogs. Recurring themes that cross-cut the course will include migration, cultural hibridity, youth culture, and musical collaboration/appropriation. The seminar will facilitate an understanding of the historical development and transnational pathways of musical traditions. No formal background in music is required. Enrollment limited to 19 first-year students.

**MUSC 0021E. Good Vibrations: The Music of Everyday Objects.**
This seminar will investigate the sonic properties of everyday objects and environments, and how they can transform into musical expression. Through a focus on listening and experimentation, the seminar will explore resonance, reverberation, field recording, feedback, circuit bending, archaeological acoustics, and other topics. Students will create individual and collaborative compositions and performance situations. No formal music background is required. Enrollment limited to 19 first year students. Instructor permission required.

**MUSC 0021F. Popular Music and Society in Latin America.**
This course examines how Latin American musics shape, and are shaped by, their social environment and the political histories of their homelands. Focusing especially on Cuban and Andean styles, it explores the ways that sounds connect with the lived experiences of local audiences, the artistic and political goals that have motivated key performers, and the effect of their actions on broader social debates. Issues covered include the relationship between music, race, and national identity; sound as a medium for social politics; the roles of industrialization, migration, urbanization, and media dissemination in driving musical change. Enrollment limited to 19 first year students.

**MUSC 0021G. Duke Ellington.**
This class will be an examination of the life and work of Duke Ellington. We will use recordings, scores, films, autobiographies, interviews, oral histories and other primary source materials as well as biographical, theoretical and analytical readings to study Ellington's three careers: the composer, the performer and the band leader. We will analyze his work largely within the musical parameters of form, improvisation techniques, orchestration, instrumentation, rhythmic and chordal structures, and concepts of tone quality. Although musical literacy is not required for this course, students who so want may receive tutorials in the rudiments of theory and score reading. Enrollment limited to 19 first year students.

**MUSC 0021H. Manifestos: Art, Politics and the Idea of Progress.**
Ever since Karl Marx and Friedrich Engels wrote their "Communist Manifesto" (1848), artists, activists and politicians have used manifestos to announce radical change and justify provocative new ideas or practices. This seminar examines the manifesto as a genre of writing with a particularly strong influence on artistic movements in 20th century Modernism. Looking at examples by poets, musicians, and visual artists, we consider how they are informed by visions of progress, social action, political efficacy, and artistic or historical necessity. Authors include Russo, Apollinaire, Schoenberg, Munch, Klee, Kandinsky, Stravinsky, Dali, Borges, Artaud, Frank O'Hara, Duchamp, Mallarmé, and Boulez. Enrollment limited to 19 first year students.
MUSC 0021J. Stephen Sondheim and the American Musical. This seminar considers the theater shows of Stephen Sondheim in relation to the history of the American musical. Through close study of selected scenes and shows, we examine how and why Sondheim and his collaborators “reinvented” the genre. Special emphasis will be given to Sondheim’s critical skepticism concerning the myths, characters, and ethos of social optimism that have been central to the Broadway tradition. We examine links between the shows and post-WWII historical contexts, and consider the political implications of the circumscribed social universe—predominantly white, urban, and affluent—within which most of his shows take place.

Fall MUSC0021J S01 16698 TTh 10:30-11:50(13) (D. Gooley)

MUSC 0030. History of Jazz. The development of jazz from its roots to the present. Focuses on the study of style types (including New Orleans style, early piano jazz, swing, bebop, and cool jazz) and their major instrumental and vocal exponents. Jazz as a social phenomenon is studied in relation to contextual aspects of folk, popular, and art music traditions in the U.S.

Spr MUSC0030 S01 25213 TTh 9:00-10:20(01) (M. McCarrell)

MUSC 0032. Music and Meditation (RELS 0032). Interested students must register for RELS 0032.

MUSC 0033. From the Blues to Beyoncé: Rock, A Portrait of America. This course seeks to view American cultural and social history of the last century through the lens of rock music. We will investigate the history of rock and popular music from its roots in the early twentieth-century to the present. We will examine the social, cultural and political contexts that gave birth to the various genres of rock music by exploring the music through the lenses of race, class, gender, advances in technology, and developments in the music business. No musical background is required. There are conference sections for this course that meet in alternating weeks. At the beginning of the semester, Professor Nathan will communicate with enrolled students with information regarding the process of enrolling in the conferences and will provide the override codes needed to enroll in a conference.

Spr MUSC0033 S01 25207 TTh 1:00-2:20(08) (E. Nathan)
Spr MUSC0033 C01 25670 Arranged 'To Be Arranged'
Spr MUSC0033 C02 25671 Arranged 'To Be Arranged'
Spr MUSC0033 C03 25672 Arranged 'To Be Arranged'
Spr MUSC0033 C04 25673 Arranged 'To Be Arranged'
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Spr MUSC0033 C08 25677 Arranged 'To Be Arranged'
Spr MUSC0033 C09 25678 Arranged 'To Be Arranged'

MUSC 0040. World Music Cultures (Africa, America, Europe, Oceania). A survey of a variety of musical styles from Africa, the Americas, Europe, and Oceania outside the Western art music tradition. Introduces these musics in their historical, social, and cultural context, in an attempt to understand them in their own theoretical systems and aesthetic frameworks.

MUSC 0041. World Music Cultures (Middle East and Asia). Introductory survey of several of the world’s musical traditions, with an emphasis on East, South, and Southeast Asia. Expands powers of musical appreciation through lectures, guided listening, and active participation in music-making. Focuses on traditional music and its relations to dance and theatre, and to its social, religious, and historical contexts, but also includes popular music and the effects of modernization. No prerequisites.

MUSC 0042. Diaspora Music in the Americas. A comparative approach to musical practices in diaspora contexts in the Americas. We will engage with the critical literature on ethnicity, globalization, hybridity, and identity in connection with ethnographic case studies of particular diaspora communities (including African, Jewish, Asian, Arab, and Latino diasporas). Students will conduct ethnographic projects and investigate music’s role in the American “ethnic media.” No prerequisites.

MUSC 0043. Music of Africa. How do Senegalese rappers mix traditional and African American musical meanings and traditions? How did drumming and dancing traditions become emblematic of the African continent abroad? How did South African musicians challenge apartheid? This course explores the diversity of popular and traditional musics on the African continent. Approaching music as inextricably linked to culture, students will explore how musics live in communities and interact with issues such as globalization, race, and nationalism. Framing their study within the fields of ethnomusicology, cultural anthropology, cultural studies, and history, students develop practical and theoretical bases for the study of music and culture.

MUSC 0044. East Asian Popular Music. This course provides a critical overview of the production, reception, and circulation of East Asian popular music. The course applies broad themes—nationalism, race, gender, diaspora, technology, and globalization—to specific case studies in Japan, North and South Korea, Mainland China, Taiwan, and areas outside of this region where the music circulates. Rather than approaching “East Asian popular music” as a distinctive category of music from a particular region, we will consider how such designations rely on certain ideas of origin, authenticity, and identity. Course materials include academic scholarship, music, music videos, documentaries, reviews, and journalistic accounts. No prerequisites.

MUSC 0045. Music, Nation, and Identity in the Middle East. The Middle East, generally understood to include Iran, Turkey, the Arabian Peninsula, Egypt, and the Levant, is home to a diversity of musical traditions that mirrors the region’s diversity of religions, languages, and other cultural expressions. In this course, we will take an in-depth look at several of these traditions; by listening closely to music and to the people who engage in it, students will be able to understand the always-shifting role of music in several Middle Eastern societies. There are no prerequisites, but a background in music or a willingness to listen deeply will be very helpful.

MUSC 0051. Mozart. Mozart’s life and music from soup to nuts. While we’ll read some of the rich correspondence that anchors his biography, the heart of the course is a study of his glorious music, from intimate private piano pieces to public operas and ending with the Requiem. A rudimentary ability to read music is necessary. We’ll offer an optional listening section.

MUSC 0052. Beethoven. This course will study the life and music of the iconic Western composer, the genius who triumphed over adversity and wrote music that traced the same heroic arc. We will investigate some sources that feed into his music, among them the French Revolution, Napoleon’s remaking of Europe, the Romantic concept of composer as suffering artist, and his response to his debilitating deafness. A particular focus will be the Ninth Symphony, including attendance at rehearsals and a performance with the Brown Orchestra and interviews with the musicians involved.

MUSC 0059. Jazz Masters. Examines recordings, scores, films, autobiographies, interviews, oral histories, and other primary source materials as well as biographical, theoretical, and analytical readings to study the life and work of Duke Ellington. His career as performer, band leader, and composer is examined in the context of his predecessors and contemporaries. Tutorials in the rudiments of theory, score reading, and ear training are available. Prerequisite: MU 36 or permission of instructor.

MUSC 0060. Bluegrass, Country, and Old-Time Music. Folk songs, fiddle tunes, lined-out and shape-note hymnody, bluegrass, and country music, mainly in Appalachia and the South. Historical development, musical design, and how the musics construct working-class and regional identities, religious experience, gender, and rural values, with attention to commodification and the rise of the national country music industry.
MUSC 0061. Blues.

MUSC 0062. Musical Youth Cultures.
A cross-cultural examination of music-oriented youth subcultures. Topics will include youth-produced vs. youth-consumed music, club culture and associated media technologies, online communities, activist musical collectives, student organizations, and concepts of the mainstream vs. the underground. Students will undertake ethnographic projects and will use web-based multimedia to present their findings. No prerequisites.

MUSC 0063. Contemplative Music of India.
Contemplative Music of India provides a comprehensive overview of many important traditions within the contemplative musical heritage of India, including a detailed exploration of Vedic hymnology, the classical musical traditions of both North and South India (Hindustani and Carnatic musics), the devotional music of the medieval bhakti mystics, and the ecstatic modes of the Sufi saints. With these varied practices in mind, the class will explore the myriad ways in which South Asians have used music as a vehicle to achieve and sustain contemplative states of mind. The class is open to everyone regardless of musical background. Enrollment limited to 20.

MUSC 0064. Honky Tonk Heroes.
This course explores country music from its origins to the present day. We will trace its development through the careers of foundational artists like the Carter Family, Hank Williams, Loretta Lynn, and Willie Nelson, and evaluate the way that their legacy is reflected in the work of contemporary artists like Corb Lund, Hayes Carll, and Neko Case. Beyond the individual creativity of these figures, we will consider the way that country music has been shaped by the recording industry, the relation it has to race, gender, and political identities, and the international spread of the American country sound.

This class will explore music as a vehicle for social protest, including historical examinations of music within the U.S. labor and civil rights movements, music and political campaigns, contemporary activist street bands (with a field trip to the Providence HONK! festival), and other examples from global independence and social justice movements in Nigeria, South Africa, Brazil, Estonia, Indonesia, and others. Students will write two short papers on the role of music within recent protest movements, a midterm essay, and a final research paper on a protest topic of their choice. No previous musical background necessary; open to all students.

This course treats the guitar as a point of entry into key sonic, social, and technical developments that have shaped music-making around the world over the last two centuries. Through reading, viewing, and listening assignments, we will study topics such as the craft of guitar making; its ecological relation to natural and synthetic materials; the sheer variety of guitar traditions that have emerged in Europe, North America, Latin America, and Africa; the meaning of virtual and video game guitars; and the instrument’s ever-shifting ties to race, class, gender, and sexuality.

From the early 20th century until now, war, political movements, ideological and cultural shifts, and later economic booms have dramatically impacted music and musical life in China. This course examines various genres of music in China, both native and imported, including traditional instrumental music, propaganda songs, opera, ballet, standard and contemporary classical music, pop music, and communal activities like amateur choruses and callisthenics. This course will exercise critical listening and thinking and comparative analysis skills, with a mix of source readings, recordings, and historical background. No background in music or Chinese history is required.

MUSC 0071. Opera.
A survey of the history, aesthetics, and politics of opera from 1600 to the present day. Analyzes operas and scenes by Monteverdi, Purcell, Mozart, Rossini, Verdi, Wagner, Strauss, and others. Ability to read music not required.

MUSC 0075. Jazz: Race, Power and History.
Explores jazz in relation to American history, discussing how economics, war, technology regional differences and race relations shaped the music at its public reception. With readings from A. Baraka, L. Levine, R. Ellison, L. Erenberg, E. Lott, G. Early, S. DeVeaux and others, we address how jazz embodies social and political values or expresses national character. Open to non-musicians. Music proficiency preferred but not required. Enrollment limited to 60.

MUSC 0080. Adaptation Culture: New Media ↔ Traditional Theatres (TAPS 0080).
Interested students must register for TAPS 0080.

MUSC 0120. Words About Music: Discovering Music Through Writing.
This seminar will explore the elusive meanings of music and the challenges of representing music in text. Exploring a variety of musical genres and approaches to the study of music, we will examine how authors treat music in text, and develop strategies for the analysis of musical performance in its cultural and social context.

MUSC 0170D. Musical Youth Cultures (AMST 0170D).
Interested students must register for AMST 0170D.

Examine the history, literature, production and theory of music technology. Track development of musical inventions and their impact on musical thought, production and culture. Develop theoretical and practical knowledge of computer music based on first-hand experience in the Multimedia Lab, using computer music software and hardware to complete creative assignments. Gain an appreciation for the pioneering work done in previous decades, both in research and composition. Become familiar with the literature of electronic music and learn about the impact of technology on popular and experimental genres. Permission granted based on questionnaire given in first class. Preference given to lower-level students.

In this course students will conceptually map music in Providence. From field research in with music scenes, students will produce multimodal projects through ethnographic, analytic, and poetic writing, mixtape curation, and zine making. Projects will be triangulated on the keyword "under" (see underground, underrepresented, underappreciated, and misunderstood) and will be informed by studies across many disciplines and fields that establish popular music as a site of intersectionality (with ethnicity, race, gender, sexuality, and disability).

MUSC 0210A. Introductory Topics in Interactive Performance and Composition: Performing with Media.
This studio course for choreographers, directors, film-makers, designers or anyone interested in the collision between new media and performance. Through the creation of new works we will explore practical issues, compositional strategies, and aesthetic aspects of hybrid performance. Students will create collaborative and independent multimedia works. Some instruction in video, sound, and advanced media software will be offered.

MUSC 0210B. Real-Time Systems.
A study of works employing electronic media, including music on CD, multimedia, and live performance. Technical aspects of the course focus on programming and signal processing using Max/MSP to create interactive projects and algorithmic compositions. Prerequisite: MUSC 0200 or equivalent. Enrollment is limited. Written permission required.
MUSC 0210C. Music/Video: An Introduction to Electronic Sound and Image.
A survey of basic techniques in creating computer-based music and video, with a special focus on the ways that sound and image impact one another. We will work to develop critical listening and viewing skills through the study of important historical and contemporary works ranging from experimental audio and video to film soundtracks to MTV. Through ten progressive weekly assignments, you will learn how to create imaginative electronic music and video. The final project will consist of a five-minute audiovisual piece which will be screened, performed, or exhibited at a public event. Enrollment is limited to 12 and will be determined by a questionnaire handed out during the first class.

MUSC 0210D. Advanced Studio Composition.
This course will focus on developing and reinforcing fundamental technical skills, musical concepts, and critical listening abilities associated with the practice of composition in an electronic music studio. These studies will be tied to a broad range of aesthetic approaches and discussions of medium, audience, and context. Through a series of self-directed projects, students will be encouraged to expand their knowledge and craft, and will provide each other with a forum for exploring their creative studio work. Prerequisite: MUSC 0200. Preference will be given to students who have previously taken MUSC 1200, 1210, and/or 1250. Enrollment limited to 15.

MUSC 0210E. Systems for Play.
Complex patterns emerge while playing with simple processes. This course focuses on systems as creative constraints and sites for composing sound and other materials. Amplifying, multiplying, delaying, cutting, folding, growing and randomizing become lenses for animating our practices and playgrounds for exploring tendencies (our own, the materials’, the system’s). Assignments are project-based and informed by short readings. There are no prerequisites and enrollment is limited to 18.

MUSC 0210F. Audio Recording and Production for Multimedia.
The understanding and use of multimedia materials is an important tool for an academic, not only to effectively present one’s research, knowledge and skills in their field of study, but also to realize their creative ideas. In this course students will acquire operational and theoretical knowledge in audio that enhances multimedia works. Home recording studio design, using smartphones in production, and basic video editing will be also covered. By the end of the course, students will create audio production for multimedia work suitable for their purposes—a documentary video in anthropology research or an art/music project are good examples.

MUSC 0220. Electroacoustic Improv Ensemble.
An ensemble devoted to free improvisation with new media. Experimental approaches to sound and focused listening techniques are explored with acoustic instruments, live electronics, real-time video, together with networked improvisation, and more. Enrollment limited to 12 students; by audition.

MUSC 0221. MEME Ensemble: Microphone as Instrument.
In this course, the idea that ‘microphones are instruments’—instruments both capable of extending our perception and of being ‘played’—will guide our explorations. Students will be introduced to microphones and recording techniques designed to capture sound waves traveling through air, liquids, and solids—beginning with in-class experiments and moving to large-scale, site-specific recording projects. Students will compose ‘scores’ for each site, devise recording strategies, and participate actively in each recording session. Participants will also hone their critical listening skills by engaging both historical and contemporary works of sonic art. Enrollment is limited to 12. Permission of instructor is required.

MUSC 0300. Listening, Agency, Collectivity.
What is listening? Why does it matter? How does it interface with the musics and sounds we encounter on a daily basis? This discussion and writing-forward class delves into various forms of listening. We will consider listening as an active practice, both culturally mediated and self-articulating. We will listen together to a wide variety of music and sound— including Billie Holiday, Chopin, Kendrick Lamar, onky#, and some student-selected works—and use writing and discussion to unpack our individual assumptions and approaches to listening. No prerequisites; some musical experience preferred.

MUSC 0400. Introduction to Music Theory.
An introduction to musical terms, elements, and techniques, including notation, intervals, scales and modes, triads and seventh chords, modulation, melody writing and harmonization, analysis, and composition. Ear-training and sight-singing are included. For students with some musical training. Enrollment limited to 40.

MUSC 0400A. Introduction to Music Theory.
An introduction to musical terms, elements, and techniques. Topics include notation, rhythm and meter, intervals, scales, chords, melody writing, harmonization, and form. Students will develop their musicianship skills, including sight-singing and keyboard, in labs which meet twice weekly. No prior musical experience is necessary. MUSC 0400A or 0400B may fulfill part of the theory requirement for the music concentration. Enrollment limited to 40.

MUSC 0400B. Introduction to Popular Music Theory and Songwriting.
An introduction to musical terms, elements, and techniques, with an emphasis on how they apply to Western popular music. Topics include notation, rhythm and meter, intervals, scales, chords, melody writing, harmonization, and form. Students will develop their musicianship skills, including sight-singing and keyboard, in labs which meet twice weekly. No prior musical experience is necessary. MUSC 0400A or 0400B may fulfill part of the theory requirement for the music concentration. Enrollment limited to 40.

MUSC 0450. On Songs and Songwriting.
A survey of basic techniques in creating computer-based music and video, with a special focus on the ways that sound and image impact one another. We will work to develop critical listening and viewing skills through the study of important historical and contemporary works ranging from experimental audio and video to film soundtracks to MTV. Through ten progressive weekly assignments, you will learn how to create imaginative electronic music and video. The final project will consist of a five-minute audiovisual piece which will be screened, performed, or exhibited at a public event. Enrollment is limited to 12 and will be determined by a questionnaire handed out during the first class.

MUSC 0460. Opera and Musical Theatre Workshop.
This course will familiarize the student with the processes necessary to be an effective singing actor. Performance opportunities within the parameters of the class will both broaden the musical palette of the student and enhance his/her understanding of preparation, coaching, and performance. Enrollment is by audition. Enrollment limited to 16. Instructor permission required.

MUSC 0500. Thinking About Music.
Designed for students who can read music, this course introduces ways of conceiving of our musical experience. Many different repertories—from Beethoven to the blues—form the basis for explorations of musical time, gesture, and color, and raise questions of expression and meaning. How is our understanding of music shaped by language, rhetoric, performance? Non-concentrators welcome.
MUSC 0505. The Humanities in Context: Literature, Media, Critique (HMAN 0800A).
Interested students must register for HMAN 0800A.

An exploration of research on music and the brain, music’s interrelationship with literature, and connections between music, mathematics, and history. Readings include The Power of Music (Mannes), Musiciphilia (Sacks), The Kreutzer Sonata (Tolstoy), Doctor Faustus (Mann), A Clockwork Orange (Burgess), excerpts from Gödel, Escher, Bach (Holstetter), and other writings in which music plays an essential role. Compositions by Bach, Mozart, Beethoven, Debussy, Schoenberg, Stravinsky, Shostakovich and others will be examined.
Goals: increased understanding of music's relationship to other fields and improved writing skills. Although musical ability is not required, qualified students will be encouraged to perform relevant works in class.

MUSC 0550. Theory of Tonal Music I
Intensive study of the building blocks of tonal music traditions including western and popular music with focus on melody, harmony, counterpoint, keyboard skills, ear training, sight-singing from musical notation, and composition. Prior keyboard experience helpful but not required. A required placement exam is administered at first class meeting. Students who do not have experience reading music should take MUSC 0400 prior to MUSC 0550. MUSC 0550 is a prerequisite to many music courses and is a requirement for the music concentration.
Fall MUSC0550 S01 16690 TTh 7:00-9:00PM (12) (M. Steinbach)
Fall MUSC0550 S02 16693 TTh 10:30-11:50AM (13) (E. Nathan)
Fall MUSC0550 L01 16694 MWF 9:00-9:50AM (A. Cole)
Fall MUSC0550 L02 17008 MWF 12:00-12:50PM (A. Cole)

MUSC 0550. Theory of Tonal Music.
See Theory Of Tonal Music (MUSC 0550) for course description. Prerequisite: MUSC 0550 or permission of the instructor.
Spr MUSC0560 S01 25510 TTh 1:00-2:20PM (09) (L. Wang)
Spr MUSC0560 L01 25650 MWF 9:00-9:50AM (A. Cole)
Spr MUSC0560 L02 25739 MWF 12:00-12:50PM (A. Cole)

MUSC 0570. Jazz and Pop Harmony.
For students with knowledge of rudiments of music, including scales, intervals, keys, signatures, rhythm and meter. Keyboard skills strongly recommended. Intensive study of chord scales, chord progressions, modulation, voice leading, melody writing, harmonization, reharmonization, chord symbols, and lead sheet construction. Lab sessions will focus on ear training, keyboard exercises, and sight singing. Emphasis will be on the vocabulary of jazz theory and the repertoire will be American popular song.
Spr MUSC0570 S01 25511 TTh 10:30-11:50AM (09) (E. Tomassi)
Spr MUSC0570 L01 25653 MWF 12:00-12:50PM (R. Sanfilippo)

MUSC 0600. Chorus.
Half credit each semester. A practical study of choral literature, techniques, and performance practice from Gregorian chant to the present, offered through rehearsals, sectionals, and performance. Enrollment is by audition. Students will be notified of audition results within the first seven days of the semester. Restricted to skilled instrumentalists. May be repeated for credit.
Fall MUSC0600 S01 17021 MW 6:30-8:20PM (12) (E. Tomassi)

MUSC 0601. Chorus.
See Chorus (MUSC 0600) for course description.
Spr MUSC0601 S01 25659 MW 6:30-8:20PM (14) (L. Jodry)

MUSC 0610. Orchestra.
Half credit each semester. A practical study of the orchestra repertory from Bach to the present, offered through coaching, rehearsals, and performances. Enrollment is by audition. Students will be notified of audition results within the first seven days of the semester. Restricted to skilled instrumentalists. May be repeated for credit.
Fall MUSC0610 S01 17017 TTh 7:15-9:45PM (10) (M. Seto)

MUSC 0611. Orchestra.
See Orchestra (MUSC 0610) for course description.
Spr MUSC0611 S01 25657 TTh 7:15-9:45PM (18) (M. Seto)

MUSC 0620. Wind Symphony.
Half credit each semester. A practical study of the wind band repertory from Mozart to the present, offered through coaching, rehearsals, and performances. Enrollment is by audition. Restricted to skilled instrumentalists. Instructor permission required.
Fall MUSC0620 S01 17075 W 6:00-8:20PM (12) (K. Plouffe)
Fall MUSC0620 S01 17075 M 6:00-7:20PM (12) (K. Plouffe)

MUSC 0621. Wind Symphony.
See Wind Symphony (MUSC 0620) for course description.
Spr MUSC0621 S01 25685 W 6:00-8:20PM (14) (K. Plouffe)
Spr MUSC0621 S01 25685 M 6:00-7:20PM (14) (K. Plouffe)

MUSC 0630. Jazz Band.
Half credit each semester. A practical study of jazz from the 1920s to the present through coaching, rehearsals, and performance. Seminars on arranging, ear training, and improvisation are conducted for interested students but the focus is on performance. Enrollment is by audition.
Restricted to skilled instrumentalists and vocalists. Instructor permission required.
Fall MUSC0630 S01 17079 Th 6:10-7:20PM (09) (E. Tomassi)
Fall MUSC0630 S01 17079 M 7:30-8:50PM (09) (E. Tomassi)
Fall MUSC0630 S02 17082 T 8:00PM-9:20PM (09) (E. Tomassi)
Fall MUSC0630 S03 17083 W 2:00-3:20PM (09) (E. Tomassi)
Fall MUSC0630 S04 17084 W 4:00-5:20PM (09) (E. Tomassi)
Fall MUSC0630 S05 17085 F 4:00-5:20PM (09) (E. Tomassi)
Fall MUSC0630 S06 17086 T 12:00-1:30PM (09) (E. Tomassi)

MUSC 0631. Jazz Band.
See Jazz Band (MUSC 0630) for course description.
Spr MUSC0631 S01 25686 Th 6:10-7:20PM (14) (E. Tomassi)
Spr MUSC0631 S01 25686 M 7:30-8:50PM (14) (E. Tomassi)
Spr MUSC0631 S02 25687 T 8:00PM-9:20PM (18) (E. Tomassi)
Spr MUSC0631 S03 25688 W 2:00-3:20PM (08) (E. Tomassi)
Spr MUSC0631 S04 25689 W 4:00-5:20PM (10) (E. Tomassi)
Spr MUSC0631 S05 25690 F 4:00-5:20PM (15) (E. Tomassi)
Spr MUSC0631 S06 25691 T 12:00-1:30PM (08) (E. Tomassi)

MUSC 0640. Ghanaian Drumming and Dancing Ensemble.
A dynamic introductory course on drumming, dancing, and singing of Ghana and the diaspora. Students learn to perform diverse types of African music, including Ewe, Akan, Ga, and Dagomba pieces on drums, bells, and shakers. No prerequisites. May be repeated for credit. Enrollment limited to 15. Instructor permission required.
Fall MUSC0640 S01 17076 W 5:30-7:20PM (17) (M. Obeng)

MUSC 0641. Ghanaian Drumming and Dancing Ensemble.
A dynamic introductory course on drumming, dancing, and singing of Ghana and the diaspora. Students learn to perform diverse types of African music, including Ewe, Akan, Ga, and Dagomba pieces on drums, bells, and shakers. No prerequisites. May be repeated for credit. Enrollment limited to 15. Instructor permission required.
Spr MUSC0641 S01 25765 W 5:00-7:20PM (10) (M. Obeng)

MUSC 0642. World Music Ensemble.
This ensemble focuses on global percussive and song traditions, especially those of the African diaspora (based on instructor's vast musical experiences). Here western instrumentalists fuse with traditional musicians from every culture: bongo, gyil, ukulele, tabla, etc. Students will grow and develop their musical skills by learning new techniques on their own instrument, exploring a range of repertoire representing genres such as highlife, reggae, salsa, afrobeat, Afro-jazz, and global fusions. There will be unique opportunities to work on improvisation taking influence from Steve Reich, Tito Puente, Randy Weston, Hugh Masekela, Paul Simon, Miriam Makeba, Ghana, and Milton Nasrime.
Fall MUSC0642 S01 17077 M 7:00-9:00PM (12) (M. Obeng)
Spr MUSC0642 S01 25763 M 7:00-9:00PM (14) (M. Obeng)
MUSC 0645. Brazilian Choro Ensemble.  
Half credit each semester. Students will play this popular Brazilian style, which emerged in the late 19th century and is often compared to early jazz. Classes run according to the traditional roda model, a structured jam session where performers read through, improvise upon, and hone their abilities to play familiar tunes. Prior familiarity with choro music not required, but some instrumental expertise is. Ability to read notation preferred. Typical instruments include guitar, cavaquinho (Brazilian ukulele), mandolin, flute, and pandeiro (Brazilian tambourine), but others may participate on instructor approval. Enrollment limit 20.

MUSC 0646. Brazilian Choro Ensemble.  
Half credit each semester. Students will play this popular Brazilian style, which emerged in the late 19th century and is often compared to early jazz. Classes run according to the traditional roda model, a structured jam session where performers read through, improvise upon, and hone their abilities to play familiar tunes. Prior familiarity with choro music not required, but some instrumental expertise is. Ability to read notation preferred. Typical instruments include guitar, cavaquinho (Brazilian ukulele), mandolin, flute, and pandeiro (Brazilian tambourine), but others may participate on instructor approval. Enrollment limit 20.

MUSC 0650. Javanese Gamelan.  
Half credit each semester. Instruction, rehearsals, and performances in the gamelan music of Java, on instruments owned by the department. No prerequisites. Enrollment limited to 18 students.

MUSC 0651. Javanese Gamelan.  
See Javanese Gamelan, MUSC0650, for course description. Enrollment limited to 18 students.

MUSC 0660. Sacred Harp/Shape-Note Singing.  
Half credit each semester. Students will learn the traditional performance practices associated with the shape-note tunebook The Sacred Harp, a compilation of American vernacular hymnody first published in Georgia in 1844. This is an unaccompanied, four-part, participatory singing tradition. Ability to read Western music notation helpful but not required. No concert performances. No prerequisites. Repeatable for credit. S/NC.

MUSC 0661. Sacred Harp/Shape-Note Singing.  
Half credit each semester. Students will learn the traditional performance practices associated with the shape-note tunebook The Sacred Harp, a compilation of American vernacular hymnody first published in Georgia in 1844. This is an unaccompanied, four-part, participatory singing tradition. Ability to read Western music notation helpful but not required. No concert performances. No prerequisites. Repeatable for credit. S/NC.

MUSC 0670. Old-Time String Band.  
Half course each semester. Instruction and ensemble playing. Music taught by ear. American (southern Appalachian Mountain) traditional music on violin (fiddle), 5-string banjo, mandolin, and guitar. Enrollment limited to 20 students.

MUSC 0680. Chamber Music Performance.  
The practical study of the literature of chamber music through participation in a small ensemble. Regular rehearsals, coaching by department staff, and performances are required. Enrollment is by audition. Students will be notified of audition results within the first ten days of the semester. Restricted to skilled instrumentalists. May be repeated for credit.

MUSC 0681. Chamber Music Performance.  
See Chamber Music Performance (MUSC 0680) for course description.

MUSC 0690. Middle Eastern Ensemble.  
Instruction, rehearsals, and performances in music from Turkey. String players (violin, viola, cello, bass), percussionists, brass and reed instruments as well as singers are welcome. We will explore classical Ottoman music, a variety of Turkish, Greek, Kurdish and Sephardic Jewish folk music as well as Turkish Sufi music, Greek-Orthodox church music and Maftirim music in Hebrew. Students audition at first class. This is a half-credit course. May be repeated for credit. Enrollment limited to 24. Final class list will be determined after the first meeting. S/NC.

MUSC 0691. Middle Eastern Ensemble.  
Instruction, rehearsals, and performances in music from Turkey. String players (violin, viola, cello, bass), percussionists, brass and reed instruments as well as singers are welcome. We will explore classical Ottoman music, a variety of Turkish, Greek, Kurdish and Sephardic Jewish folk music as well as Turkish Sufi music, Greek-Orthodox church music and Maftirim music in Hebrew. Students audition at first class. This is a half-credit course. May be repeated for credit. Enrollment limited to 24. Final class list will be determined after the first meeting. S/NC.

Half credit each semester. Restricted to skilled musicians. Openings are limited. Enrollment and re-enrollment is by audition and jury. Lessons are given by consultants to the Applied Music Program. A fee is charged for enrollment. Copies of the Applied Music Program Guidelines giving detailed information are available online at www.brown.edu/music. May be repeated up to four times for credit.

Interested students must register for RELS 0822.  
Fall MUSC0825 S01 17443 Arranged 'To Be Arranged'

MUSC 0900. Haydn and Mozart.  
This course explores the music of Joseph Haydn (1732-1809) and Wolfgang Amadé Mozart (1756-1791): two remarkable composers, who led powerfully contrasting but intertwined lives. Our focus will be Mozart’s three operas that he produced with the librettist Lorenzo Da Ponte—Le Nozze di Figaro, Don Giovanni, and Cosi Fan Tutte, Haydn’s twelve London Symphonies, and his grand oratorio, The Creation. Through these works we can access a wealth of issues and themes of the late Enlightenment style: questions of voice, affect, register, eighteenth-century listening, comedy, form, dance, naturalness, mimesis, the sublime, orchestral effect, and musical modernity.

A history of western European music to Monteverdi's Orfeo (1607), with emphasis on the analysis of individual works supported by reading and listening. Among the major composers studied are Byrd, Dufay, Josquin, Machaut, and Palestrina. Strongly recommended for freshmen and sophomores considering a concentration in music. Limited to students who can read music. Prerequisite: MUSC0550 or permission of instructor.

A history of music in European society from Monteverdi’s opera Orfeo to Beethoven’s Ninth, studied through texts, scores, CDs, DVDs, and YouTube. We’ll spend two-thirds of our time on five composers: Bach, Handel, Haydn, Mozart, and Beethoven. Prerequisite: MUSC0550 or equivalent.

A history of European and American art music from Beethoven to the Postmoderists. Prerequisite: MUSC 0550 or permission of instructor.

MUSC 1005. Arts Workshop for Practice and Practice-Oriented Research (LITR 1000).  
Interested students must register for LITR 1000.  
Fall MUSC1005 S01 17633 Arranged 'To Be Arranged'
MUSC 1010. Advanced Musicianship I.
Training in advanced musicianship skills relevant to Western art music from the sixteenth Century to the present, including sight singing, ear training, score reading, keyboard harmony, improvisation, and musical transcription. Prerequisite: MUSC 0560 or MUSC 0570, or permission of the instructor.
Fall MUSC1010 S01 16705 MWF 2:00-2:50(07) (A. Cole)

MUSC 1011. Advanced Musicianship II.
Continuation of MUSC 1010. Prerequisite: MUSC 1010 or permission of the instructor.
Spr MUSC1011 S01 25216 MWF 2:00-2:50(07) (A. Cole)

MUSC 1020. Modal Counterpoint.
An introduction to contrapuntal techniques of the 16th century with particular attention to the music of Lassus and Palestrina. Two hours per week of ear training and sight singing. Prerequisite: MUSC 0560.

MUSC 1030. Tonal Counterpoint.
The contrapuntal techniques of the 18th century with emphasis on music of Bach. Written exercises in and analysis of several genres including fugue. Prerequisite: MUSC 0560 or permission of instructor.

MUSC 1040. Analysis of Romantic Musics.
This is an analysis course focusing on music of 19th -century Western concert tradition. The primary goal is to improve and introduce new analysis skills related to chromatic harmony and form. The course proceeds by distinctive genres, including examples of solo piano works, lieder, string quartets and other chamber works, symphonies, tone poems, and opera. Though the emphasis is primarily on analyzing purely musical elements, we will also touch on broader issues of Romantic aesthetics and cultural contexts, such as fragmentation, virtuosity, nostalgia, and the debate over absolute and programmatic music.
Spr MUSC1040 S02 25794 TTh 4:00-5:20(16) (I. Tan)

MUSC 1050. Advanced Music Theory II.
A study of theories of Western art music since Debussy. Exercises in analysis and composition, focusing on works of Debussy, Stravinsky, Schoenberg, Webern, Bartok and Ives. Students give presentations on selected later composers. Prerequisite: MUSC 0560 with grade of B, or the equivalent.

Study of the implications of musical analysis for performance. Students prepare solo or chamber works for performance in a formal concert presented at the end of the course. Focuses on problems of interpretation and their resolution through analysis of musical structure. Short analytical assignments and an extended analytical project required. Prerequisite: MUSC 0560 or permission of the instructor and proficiency on a musical instrument.

MUSC 1070. Music After 1945.
A study of the most important composers and styles of European and American concert music since the end of the second World War. Assignments will include readings from theoretical and critical writing of the period; score study, analysis and performance of representative works; and compositions in the style of selected composers. Prerequisite: MUSC 0560 plus one course numbered between MUSC 1020 and MUSC 1050.

MUSC 1100. Introduction to Composition.
Composition students begin by using technical resources developed in their previous theoretical studies. Analysis and discussion of contemporary music provides examples of alternatives to traditional compositional strategies, which students integrate into later assignments. A study of contemporary notational practices and computer-based manuscripting and sequencing is also included. Prerequisite: MUSC 0560 or MUSC 0570 or permission of the instructor. Enrollment limited to 20 students.
Fall MUSC1100 S01 17004 W 3:00-5:30(17) (K. Warren)

MUSC 1110. Seminar in Composition.
This is a seminar-based course with a creative component focusing on specific compositional techniques and forms and ways in which they affect the individual composer and his or her voice. Prerequisite: MUSC0560 or permission of the instructor. Not open to first year students.

MUSC 1120. The Technique of Orchestration.
The study of orchestration includes the ranges, sounds, and idiosyncrasies of the individual instruments, and the combination of those instruments into ensemble textures. A series of graduated assignments, including pieces for solo cello, string quartet, wind quintet, wind ensemble, and full orchestra, form the basis of this course. Prerequisite: MUSC0560 or permission of the instructor. Not open to first year students.

MUSC 1130. Jazz Composition and Arranging.
A review of jazz theory topics, including rhythmic structures, scales and modes, harmonic progressions and substitutions, improvisation techniques, forms and development. Weekly writing assignments for two to five parts with rhythm section accompaniment. Students compose and orchestrate three works for small and large jazz ensembles. Guest composers review students' compositions and various Brown jazz bands rehearse and record them. Prerequisites: MUSC 0550.

MUSC 1140. Classical Improvisation.
A historical and practical study of improvisation in western classical traditions from the middle ages to the 19th century, with emphasis on the common practice period 1700-1850. Students will apply theoretical knowledge in harmony and counterpoint to in-class improvisations, learning such skills as melodic ornamentation, chaconne-bass elaborations, variations, preluding, and free improvisation starting with simple exercises and gradually elaborating more complex pieces. These practices will be studied in relation to their historical contexts and shifting aesthetic purposes. Historical topics include cadenzas, harmonic experimentation, the relationship between oral and written transmission, and the social contexts of performance. MUSC0560 and consultation with instructor recommended. Prerequisite: MUSC 0550. Enrollment limited to 15.

A study of advanced studio techniques taught in parallel with topics in psychoacoustics. Students will create original studio work while developing listening and technical skills for audio production. Technical topics include recording, signal processing and mixing software, microphone technique, and live sound engineering. Class size is limited. Preference will be given to students who have completed MUSC 0200. Students will be evaluated for potential future work in the MEME program (Multimedia and Electronic Music Experiments) and past participation in MEME. Admission is determined by an entrance questionnaire completed at the first class meeting. Prerequisite: MUSC 0200
Spr MUSC1200 S01 25218 TTh 2:30-3:50(11) (J. Moses)

MUSC 1205. Reality Remix - Experimental VR.
This course pursues collaborative experimentation with virtual and augmented reality (AR and VR). The class will work as a team to pursue research (survey of VR/AR experiences, scientific and critical literature review), reconnaissance (identifying VR/AR resources on campus, Providence and the region), design (VR/AR prototyping). Research findings are documented in a class wiki. The course makes use of Brown Arts Initiative facilities in the Granoff Center where an existing VR laboratory will be expanded through the course of the semester based on student needs. Class culminates in the release the class wiki as a resource for the Brown community.
Fall MUSC1205 S01 17636 Th 6:00-9:00PM(10) (A. Momemi)
MUSC 1210. Seminar in Electronic Music: Real-Time Systems. Seminar in Electronic Music is a study of music employing electronic media, including real-time digital signal processing, multimedia, and live performance. Technical aspects of the course focus on programming using Max/MSP to create interactive projects and algorithmic compositions. Permission of instructor required. Interested students must come to the first class. Preference will be given to students who have completed MUSC 200.

Fall MUSC1210 S01 17872 TTh 2:30-3:50(03) (M. Sagesser)

MUSC 1215. Site and Sound (VISA 1710). Interested students must register for VISA 1710.

MUSC 1220. Interactive Installation. Production class exploring ideas and techniques using multiple digital media to create audio-video installations. Technical issues focus on programming with Max/MSP/Jitter and using various types of sensors for human-computer interaction. Collaborative projects may combine performance, sculpture, computer music, hypertext, live video processing, and graphics in order to stimulate experimentation with new integrated art-forms. Enrollment is limited to 14. Preference will be given to students who have completed Music 200. Others will be evaluated for potential future work in the MEME program (Multimedia and Electronic Music Experiments) and past participation in MEME. Admission is determined by an entrance questionnaire completed at the first class meeting. May be repeated for credit. S/NC

MUSC 1221. Studies in Electroacoustic Improvisation. According to Pauline Oliveros, “[i]n improvisation you can’t change your mind […] in composition you can.” This class integrates critical and creative approaches in order to develop individual and collective improvisation, a practice which values presence and listening over traditional accuracy. We will consider scholarship by prominent improvisers and undertake a variety of exercises to practice and improve at improvisation. As a class we will give several performances at Brown and in Providence over the course of the semester. Instrumental and/or music software experience preferred. Interested students strongly recommended to attend first day; final class list determined by questionnaire.

MUSC 1230. Sound/Image Composition. This seminar examines various ways that image and sound can be combined in unified artworks. The course will include extensive reading assignments and analysis of preexisting works, as well as the creation of new mixed-media works. Some experience with music composition required and knowledge of current video editing, animation and/or image processing techniques also highly recommended. Course admittance is by permission of the instructor. For graduate and advanced undergraduates (with prerequisite MUSC020).

MUSC 1235. Exploration in Video Art (VISA 1730). Interested students must register for VISA 1730.

MUSC 1240A. Sonic Psychogeography. Psychogeography loosely describes a cluster of art practices that explore the effects of the geographical environment on the emotions and behaviors of individuals. How can sound, uniquely powerful in triggering memory and connecting us to the present moment, be used in psychogeographical work? Traveling, mapping, walking, and otherwise getting around both urban and rural landscapes will inspire class projects: audio collages, video works, headphone tours, interactive installations, public interventions. Come prepared to walk, to read, to listen, to look, and to make. Some experience with sound or video editing required. Permission will be granted based upon a questionnaire given in the first class. Enrollment limited to 14 students.

MUSC 1240B. Narrative and Immersion. A production course examining the potentials for engagement in new media, drawing on narrative techniques to establish engagement in immersive works. Students will be introduced to cinematic concepts, interactive technologies, multi-channel video and surround sound environments. Classes will consist of viewing and analysis of exemplary work, discussion of readings, critiques of student projects, and technical workshops on Max/Jitter. Class members should have completed advanced work in #film/video, digital sound, and/or creative writing. Open to upper-level undergraduate and graduate students. The class list will be determined after the #1st class, by permission of instructor. S/NC

MUSC 1240C. Chamber Music/Video. Focuses on the creation of multimedia chamber performances incorporating live music and video. The class will explore issues such as instrumentation and color, structural relationships, the dynamic between performers and video, and the practicalities of performance. Class meetings will consisting of viewing and analyzing exemplary chamber video works and workshop collaborative student projects, and the course will culminate with a performance of student projects at the end of the semester. Open to upper-level undergraduate students and graduate students with experience in composition, performance and/or video. The final class list will be determined after the first class meeting, by permission of instructor. Enrollment limited to 14.

MUSC 1240D. Experimental Musical Instrument Design (VISA 1800Q). Interested students must register for VISA 1800Q.

MUSC 1240E. Experimental Data Representation (MCM 1700U). Interested students must register for MCM 1700U.

MUSC 1240F. Circuit Bending and Hardware Hacking as Musical and Artistic Expression. Creative experimentation with hardware electronics and re-appropriated technologies is the main focus of this course. No prior experience of electronics is required. Initially, we will build a range of simple electronic circuits and explore a variety of strategies to animate and interpret pre-existing electronic devices. Students will then develop individual instruments and/or performance environments and engage in a number of solo and collaborative projects. The aesthetics of handmade electronic music and post-digital performance practice will be foregrounded throughout. Permission of instructor is required.

MUSC 1240G. Topics in New Media Theory and Production: Post-Vernacular Composition/ ‘Pop Music’ Gone Feral. This seminar explores the fertile creative territory found around the more adventurous edges of ‘popular’ musics. We will focus on non-notated contemporary composition, but will not be restricted to the recording studio, or to the production of ‘fixed’ works. The idea of post-vernacular is utilised to challenge the view that vernacular musics are only oriented towards commercialism and mass popularity. It seeks to extend and develop the inherently experimental dimensions of much vernacular musical practice. Students will respond to increasingly open-ended assignment briefs, and explore cultural and aesthetic considerations via a portfolio of practical and theoretical work. Written permission.

MUSC 1240H. Topics in Electronic Music and Multimedia: Future Lives. This is an interdisciplinary production course in making pieces, systems, and performances that play with the limits of possibility. Drawing from science fiction and speculative practices in various media, we explore how myth and technology have shaped current world-views and create speculative projects of our own—making (and faking) new myths and technologies for shaping the future. Musical robots, network interplays, digital gardens, living rooms, automated companies, virtual worlds, and non-technical performances are all possible projects. No prerequisites. All disciplines are welcome, but experience in music, new media, engineering, architecture, and/or performance is preferred. Enrollment is limited to 12.
MUSC 1240L. Building Musical Instruments.
In Building Musical Instruments, we will study and create expressive musical sound by building electronic instruments. Using sonic goals as inspiration for design features, we will build contact microphones, basic synthesizers, digital controllers, and physical enclosures, and we will consider the ways in which these distinct objects can unite to form a musical performance system. Topics include: musical listening and design, resonance of different materials, soldering, breadboarding, reading a basic schematic diagram, creating an enclosure, and expressive interaction with instruments. Override codes required; interested students must attend first day and complete questionnaire, only after which will override codes be distributed.

Fall MUSC1240L S01 17005 TTh 10:30-11:50(13) (K. Warren)

MUSC 1240J. Generative Sound Systems: Conversation + Creation.
Critical production course on algorithmic and generative methods for creation of sound art installations and experimental music performances. Exposure to generative works by diverse artists in experimental electronic music, sound art, and sound design. Using Max/MSP, students will create unique real-time systems exploring randomness and data flow in art contexts through brief coding assignments. Readings investigate complex histories and relationships that exist within systems practices, including origins of organized sound and first “computers.” Final public showing of new sound installations and live performances. Enrollment 16. Permission required. Interested students must attend first class. Suggested prerequisites: MUSC 200, 1210 or equivalent.

MUSC 1240K. Designing Electronic Instruments and Controllers.
Develop skills to design, build, and perform with electronic instruments/alternative controllers, including music programming in Max/MSP, Arduino microcontroller programming, electronic prototyping, working with sensors, and fabrication. In addition to tools taught during labs, lectures will focus on the history and culture of alternative controllers, and assignments will encourage thought on the development of expressive and novel musical controllers. Preference to those with a background in two: musical performance, electronic music, digital audio, physical computing, programming, electrical or mechanical engineering, sculpture, fabrication. Skills background questionnaire will be given on the first day of class. Enrollment will be finalized after first meeting. $100 lab fee for materials.

Fall MUSC1240K S01 S02 S03 17924 17923 25801 M TTh 6:00-6:50 3:00-5:30 2:30-3:50 (E. DeLuca) (K. Warren)

MUSC 1240L. Rhythm Beyond Music.
This course foregrounds the concept of rhythm as it appears across disciplines from philosophy to ecology to neuroscience to media theory. We will explore what rhythm means in these contexts and how it relates to aesthetic practices in the sonic, visual, and digital arts. We will ask what are the ontologies, practices, and politics of non-object and processual-based means of being in the world. The course takes a hybrid theory/practice approach. Classes consist of reading and discussion of texts and exemplary artworks in seminar format. Students will produce projects that build toward “artistic research” in any medium for in-class critique.

MUSC 1240M. Composing with Ableton.
In Composing with Ableton, we will study and use the well known music-making software Ableton Live and its subsidiary Max for Live (M4L). We will consider sound in Live and M4L from a variety of perspectives, from popular music vocabularies to experimental sound practices. This project-based class teaches production techniques in tandem with critical investigation of genre and development of personal style. Topics include: DAW-style production, control information, interactivity, and digital signal processing. Override codes required; interested students must attend first day and complete questionnaire, only after which will override codes be distributed.

Spr MUSC1240M S01 25624 TTh 10:30-11:50(09) (K. Warren)

MUSC 1240N. Analog Practice.
Analog sound is uniquely tactile, expressive, and flexible. Through a series of solo, collaborative, recorded, and live-performed projects, this class explores the practice of creating analog sound. We will use a wide array of modular and semi-modular analog synthesizers, including the rare ARP 2500. Beginning with broad concepts of voltage flow and modulation, we will expand into considering the unique affordances of various synths, addressing questions such as tone color, ease of sound production and variation, and conduciveness to combination with other sound sources. Interested students strongly recommended to attend first day; final class list determined by questionnaire.

Spr MUSC1240N S01 25801 TTh 2:30-3:50(11) (K. Warren)

MUSC 1240P. Sound Art.
This hands-on course explores the historical and technical innovations involving sound as a material and/or metaphor in artmaking. Students will map out and respond to the unique ways sound-based creative practices (produced after World War II) are sites of intersectionality. Students will foreground the generative possibilities of non-normative forms and question structures of audibility and inaudibility, collision and resistance. Students will develop a critical awareness of how sound art emerged from the experimentation with emerging technologies used in the science, military and industrial complexes. The tools and methodologies students experiment with will be contextualized with readings of everyday sonic praxis. Permission will be granted based upon a questionnaire given in the first class.

A digital production course exploring the coding and creation of immersive visual and auditory experiences. The class aims to enhance students skills in manipulating a variety of visual and sound media, both live and in the studio and will serve as an introduction to the techniques and materials used in audio-visual performances and installations. Classes will consist of viewing and analysis of exemplary work, critiquing of students projects, and coding workshops in the programming environment Max/MSP/Jitter. Technical topics will include real-time audiovisual interaction, multi-channel video, and projection mapping. Open to upper-level undergraduate and graduate students.

MUSC 1240R. Rap as Storytelling.
This is a weekly production seminar in which students will explore various aspects of hip hop songwriting from the perspective that rap verses can constitute compelling stories. Over the course of the semester we will examine several different storytelling approaches, song structures, and techniques through deep listening sessions, class discussions, and lectures from a range of invited guests. Students will be expected to record verses of verses as part of their weekly writing assignments as well as perform prepared material for their classmates at three points during the semester.

Fall MUSC1240R S01 17913 M 3:00-5:30(05) (E. Lumumba-Kasongo)

MUSC 1240Z. Public Art in Sound and Listening.
This course is about public artmaking and critical inquiry through sound and listening. Students will collaborate with particular people in Providence and Newport on projects. Students will foreground the generative possibilities of non-normative forms and question structures of audibility and inaudibility, collision and resistance. The creative tools and methodologies students experiment with will be contextualized with readings of everyday sonic praxis, site-specific art, storytelling, speculative design, social sculpture, and teaching community.

Fall MUSC1240Z S01 17923 T 4:00-6:30(09) (E. DeLuca)
Fall MUSC1240Z C01 17924 M 6:00-6:50 (E. DeLuca)
MUSC 1250. Sound Design.
This production seminar is a study of techniques and aesthetics used to create sonic environments and effects that enhance a variety of media including video, radio and audio art, new media, theater, and installation art. Technical topics include audio production in multi-channel formats, advanced audio editing, mixing and synthesis techniques, and audio system design. Enrollment limited to 12 students. Preference will be given to students who have completed MUSC 1200. Others will be evaluated for potential future work in the MEME program (Multimedia and Electronic Music Experiments) and past participation in MEME. Admission is determined by an entrance questionnaire completed at the first class meeting. Prereq: MUSC 1200.

This course will focus on developing and reinforcing technical skills, musical concepts, and critical listening abilities associated with the practice of composition in an electronic music studio. These studies will be tied to a broad range of aesthetic approaches and discussions of sound synthesis and processing, spatialization, and recording techniques. Through a series of projects and focused study, students will expand their knowledge and craft, and will provide each other with a forum for exploring their creative studio work. MUSC 1200 is a prerequisite, and preference will be given to students who have also taken MUSC 1210. and/or 1250. Fall MUSC1260 SDI 17304 W 3:00-5:30(17) (J. Moses)

The historic music industry provides a cautionary case study for artists and entrepreneurs. For musicians and artists of any genre, understanding the traditional music industry—from copyright - marketing - ethics—provides baseline “rules” that allow optimal decision making with respect to artistic careers. For entrepreneurs, models utilized from the music industry provide both a cautionary tale and line of sight; as goes the music industry, so goes all other industries...eventually. Students will learn fundamental principles of the historic music industry and will review both historic and current music industry practices to develop strategies and tactics applicable to other industries and entrepreneurial activities.

This advanced production seminar investigates new ideas and developments in electronic music from 1990-present. Consists of discussing seminal texts and compositions, and investigating various analysis methods. Students respond to materials with a series of compositions. The purpose is to provide a wide variety of perspectives that students integrate into their artistic practice. Students undertake a research project resulting in a paper, presentation and original composition. Open to upper-level undergraduates and graduate students with significant electronic music experience. Enrollment limited to 16. By permission of the instructor. The final class list will be determined based on a questionnaire on the first day.

MUSC 1290. Analog/Digital Hybrids.
This course is focused on advanced synthesis techniques and analog/digital hybrid systems. Students will engage with the university’s hardware synth equipment and examine how digital tools, such as the “Max” programming language can be used to supplement them. Emphasis will be placed on generative “real time,” systems in order to create complex, evolving synth patches capable of producing non-repeating musical gestures. We will also explore “feedback,” and how it can be utilized as both an audio and control signal.

The course will explore questions of an artist's role in the world, and will include an inquiry into a set of ideas in philosophy of aesthetics: an inquiry into activism and developing social practice as artists; discussion on philosophy of education as it relates to the question of positive social change; and an exploration of musical and artistic initiatives that have been particularly focused on a positive social impact.

MUSC 1500. Major Masters and Repertoires of Music.
The advanced study of the music of selected composers. Prerequisites: MUSC 550 or permission of the instructor.

MUSC 1500A. Major Masters and Repertoires of Music: Bach.
An examination of the life and work of Bach, including its place in German church music, views of his contemporaries and explanation of his manuscript and publishing history.

MUSC 1500B. Major Masters of Music: Olivier Messiaen.
This seminar explores Messiaen’s life, theoretical writings, and above all his music. Listening and analysis will focus on Messiaen’s idiosyncratic harmonic and rhythm language as well as performance practice issues. We will investigate Messiaen’s use of color, plainsong, “modes of limited transposition,” “personages rhythmic,” birdsong, serialism, Greek modes, and Indian ragas via representative works. We will also examine Messiaen’s formation and his legacy as teacher/composer/performer. Final project is either student performance/analysis or a theoretical/historical paper. Prerequisite MUSC 0560. Class size limited to 16.

A history of western music from Monteverdi’s Orfeo (1607) to Beethoven’s Ninth Symphony (1824). Prerequisite: MUSC 0550 or equivalent.

MUSC 1600A. Seminar in Music and Critical Theory: Adorno on New Music.
A close study of Adorno’s Philosophy of New Music, in the new translation by Robert Hullot-Kentor, and selected secondary readings relevant to this work. The course emphasizes notions of canon (the Western musical canon starting with Beethoven); of modernism (as exemplified in music by Schoenberg and Stravinsky); and of an avant garde. It also focuses on relationships between art traditions and popular music; and on problems of writing legitimate (or so-called “authentic”) music of any kind in a post-canonic age. An interdisciplinary student body enriches this course; thus, students from all backgrounds with a scholarly interest in any type of music since 1900 or in any of these issues are encouraged to enroll.

MUSC 1600B. Adorno and Jankelevitch in Dialogue.
Philosophers Theodor Adorno and Vladimir Jankelevitch were both leading philosophers of the mid-20th century (in Germany and France respectively). Both were also avid pianists who produced several philosophical books on music. This course examines their musical writings both independently and comparatively. Jankelevitch’s ethical and metaphysical questions, together with Adorno’s sociological and historical ones, will be studied in relation to the philosophical traditions they inherited and transformed. Their work will also be evaluated in the volatile European context of the period 1930-70. Enrollment limited to 20 students.

MUSC 1610. Writing about Music.
A study of music criticism through three intertwined enterprises: analyzing classic 19th- and 20th-century writings on Western art music; analyzing representative writings on popular music in recent newspapers and magazines; and writing short critical pieces on a mixture of art and popular music, some assigned, some chosen by the student. Non-music concentrators welcomed. Prerequisite: MUSC 0550 or instructor permission. Enrollment limited to 15. Instructor permission required.

MUSC 1612A. Writing about Music.
A study of music criticism through three intertwined enterprises: analyzing classic 19th- and 20th-century writings on Western art music; analyzing representative writings on popular music in recent newspapers and magazines; and writing short critical pieces on a mixture of art and popular music, some assigned, some chosen by the student. Non-music concentrators welcomed. Prerequisite: MUSC 0550 or written permission.

MUSC 1620. Seminar in American Music: The Great American Songbook (Part II: Performers)
Emphasizes the musical and cultural effects of various styles of vocal performance on American standards written between 1914 and 1960. Possible singers include Louis Armstrong, Bing Crosby, Fred Astaire, Ethel Waters, Ella Fitzgerald, Billie Holiday, Frank Sinatra, Nat King Cole, and Tony Bennett. More recent jazz and cabaret singers also receive consideration. Course ends by considering changes represented by Elvis Presley and Bob Dylan. This course complements another that emphasizes the songs of this period in themselves. Students from all backgrounds are welcome. Prerequisite: MUSC0550 or written permission.
MUSC 1622. Seminar in Music and Theater. Students compare selected Broadway musicals with their principal sources (novels, short stories, dramas, films, another musical) and, in some cases, their subsequent transformations (a film, another musical). Emphasis is on primary sources; students largely determine and run the film component of the course. The class is likely to study Porgy and Bess; Pal Joey; Kiss Me Kate; My Fair Lady; Flower Drum Song; Cabaret; and Wizard of Oz / The Wiz / Wicked. Students may choose other works for individual projects. Majors and non-majors are encouraged to enroll. Prerequisite: MUSC 0550 or written permission. May be repeated for credit.

MUSC 1632A. The Great American Songbook (Part I: The Songs). This course analyzes interests and values exhibited in American popular songs in the period between 1914 and 1945. Topics range from sexual mores and work ethic to race relations and the Melting Pot. Emphasis is on the songs and their writers; performance and performers will be emphasized in a subsequent course.

MUSC 1640A. Opera, Politics, History, Gender. The will to social order and the desire to transcend it: this conflict in modern culture has been negotiated dramatically in opera. This seminar concentrates on operas by Mozart, Wagner, Verdi, Debussy, and Puccini. Each opera will be placed into dialogue with historical and theoretical texts and analyze how opera engages power in relation to gender, nationalism, modernism, and crises of representation.

MUSC 1640B. Seminar in Opera Studies: Performance Analysis and Opera. The seminar will explore current tendencies in (radical) opera productions in Germany and elsewhere as well as methods to analyze opera in performance. Based on the premise that the transformative dimension of opera is to be understood as the ephemeral and reciprocal process between performing actors/singers and recipients, this seminar will raise the question of how this special relationship can be theorized and analyzed.

MUSC 1640C. Wagner's Ring. This seminar will pursue a rigorous musical, textual, historical, and political analysis of Wagner's tetralogy The Ring of the Nibelung. It will include an analysis of production styles, with specific attention to the production currently in joint development at the Teatro alla Scala, Milan, and the Berlin State Opera, to be directed by Guy Cassiers. We will address themes such as globalization and its discontents, the interplay of music drama and visual technologies, and the contextual importance of serial novels such as those of Marcel Proust, Robert Musil, and Hermann Broch. Enrollment limited to 20 students. Instructor override required.

MUSC 1640D. Opera: History, Theory, Practice. This seminar will analyze the history, theory, and practice of opera in its textual (words and music), and performative (in the theater and in society) dimensions. We will focus paradigmatic works of Mozart, Verdi, and Wagner alongside key works in philosophy, cultural theory, and gender/performance/operas studies. We will also discuss the genesis and implementation of key productions. In addition, each student will select a 20th or 21st-century work for individual research and presentation to the group.

MUSC 1640E. Seminar in Opera Studies: Mozart's Operas Then and Now. Mozart wrote seven operas during his Vienna years. While we'll touch on all of them, the heart of this seminar will be his three Italian comic operas - The Marriage of Figaro, Don Giovanni, and Cosi fan tutte – and his German opera, The Magic Flute. We'll examine them as musical dramas, psychological studies, social documents, and sites for stage directors. We'll give special attention to Mozart's characterizations of women and the issues these raise for directors and singers. Work will include DVDs, CDs, readings, and scores for those who read music. Students will adopt an opera for the course.

MUSC 1640G. The Case of Wagner. Richard Wagner (1813–83) changed forever the forms, meanings, and contexts of European music, especially the symphonic and operatic traditions. He transformed the way we listen to music written before him. This course will pay close attention to several major music dramas, especially Lohengrin, The Ring of the Nibelung, and Parsifal, focusing on music, words, and the history and variety of staged productions. We will also consider Wagner's relation to literature, philosophy, and history, including such issues as nationalism, modernism, anti-Semitism, and the persisting controversies around his work in Germany and Israel. This is an upper-level seminar but open to all.

MUSC 1645. Seeing Through Sound: Music and Film in Mainstream, Indie, and Experimental Cinema. Film has long attracted artists working outside the mainstream. Yet most surveys of music and film still privilege Hollywood cinema and the classical film "underscore" as the exemplar of cinematic multimedia. In this course, we will set this important tradition within a wider historical narrative that also embraces avant-garde and underground genres, from abstract animation and the city symphony to graphical sound and found-footage films. And in weekly special screenings ranging from opera films to backstage musicals to "mock rockumentaries," we will examine films that self-consciously thematize their own music, or in which music itself becomes a character in the narrative.

MUSC 1650. Adorno Goes to the Opera. “Of all the tasks awaiting us in the social interpretation of music”, wrote T.W. Adorno, “that of Mozart would be the most difficult and the most urgent.” Using writings by Adorno on opera as a point of departure, this course goes on to a critical examination of selected Italian, German and French operas between Fidelio and Wozzeck. Finally, it takes up Adorno's challenge by reconsidering some of Mozart's mature operas, from Figaro though The Magic Flute, in terms of later opera history and theory.

MUSC 1660A. Mahler's Century. This seminar will explore key works of Gustav Mahler in multiple contexts, including critical/interpretive traditions, conducting and performance practices, and the contexts of political, cultural, intellectual, and aesthetic history. Readings will include work of Sigmund Freud, Theodor Adorno, Carl Schorske, Julia Kristeva, Judith Butler, and others; we will think about problems such modernism, orientalism, Jewishness, montage, noise, shock, and melancholy.

Fall MUSC1660/S01 16702 Th 4:00-6:30(04) (M. Steinberg)

MUSC 1661. Death and Dying. A study of the cultural treatment of death in Europe and America from the French Revolution to the Vietnam War. Using CDs, DVDs, and YouTube, we'll listen to operas, songs, requiems and oratories, and instrumental and orchestral works, from Mozart's Don Giovanni to Crumb's Black Angels. We'll also read short stories, novels, and poems; watch war films; and study art, architecture, cemetery sculpture and design, mourning rituals, and state funerals.

MUSC 1662. Music and Childhood in the Western Tradition. This seminar examines significant moments in the history of children as creators, performers, consumers, and subjects of music in the Western tradition. From Mozart to Michael Jackson, medieval psalmody to Stockhausen, we will survey the enlivening of children, childhood, and the childlike across a range of performance contexts and pedagogical, aesthetic, and cultural-political agendas. We will sharpen our critical awareness of the ways Western music mediates negotiations of childhood agency, innocence, and authenticity. For their final project, students may work with a historical item of children’s musical culture, or undertake a “mini-ethnography” of a local children’s music program or ensemble.

MUSC 1663. Women in Music. This course comprises a chronological survey of female art music composers from the ninth century to the present day. This will include the study of many pieces of music by women, accompanied by readings addressing the social, economic, cultural, and political circumstances that surrounded their composition. Additional readings address the larger context for women’s composition and its reception over time as well as the development of a feminist perspective in music scholarship.
MUSC 1671. Conductors, Orchestras and Repertory. A study of conductors and the orchestras they directed, and an exploration of great musical compositions of the past 200 years. We will cover the development of conductors such as Arturo Toscanini and Wilhelm Furtwängler to Allan Gilbert and Gustavo Dudamel; orchestras from Berlin and Vienna to New York and Los Angeles; and music from Beethoven to Stravinsky. Our work will involve scores, CDs, DVDs, YouTube, memoirs, letters, and secondary sources. Each student will adopt two conductors and orchestras for the course.

MUSC 1672. Hitler's Gift. The flight of musicians from Europe in 1933-45 exile changed the course of Western music, and it changed them. Among them were many of the great musicians of the 20th century, including Bartok, Casals, Klemperer, Rubinstein, Schoenberg, Toscanini, and Well. We examine patterns of emigration, settlement, and adaptation through memoirs, letters, essays, newspaper articles, biographies, recordings, and videos.

MUSC 1673. Interpreting Debussy. A study in musical poetics. Debussy forms the launching point for a discussion of pleasure and liberty in harmony, melody, rhythm, and form; of orchestral impressionism and of music's links to poetry and painting. Close readings of scores and recorded performances will yield different approaches to interpretation, leading to two analytical papers and a final class concert. Prerequisite: MUSC 0550, 0560 or permission of instructor.

MUSC 1675. Music, Religion, Politics. This is a course about the cultural origins and the national and global legacies of central European musical traditions and their role in the building, survival, and transformations of the city of Berlin. How do we understand the cultural importance of musical works, performance, and experience at the intersection of art, politics, and religion (including the process of and debates over secularization)? How has music served to build both inner life and community, including the "imagined community" of the nation? How do we understand the legacy of European and national musics for the age of globalization? Prerequisites: Prior to the first class, interested students must submit a brief paragraph to the instructor indicating why they wish to take this course and how it will fit in with their course of study. Limited to 12. Permission required.

MUSC 1680. Musical Performance: Theatricality, Body, and Spectacle. Explores the visual and theatrical dimensions of music performance--both recent and historical--through the analysis of live performances, video clips, and historical documents. Using the critical methods of performance studies, we seek to uncover those aspects of musical experience that have become transparent or normalized by their familiarity, and which are eluded by a traditional focus on music as "sound alone." We concentrate on five genres--rock, classical, pop, jazz, and experimental--and consider works with instruments, excerpts from Mozart's vespers, 19th-century Romantic part songs, and selected 20th-century. Issues of basic vocal production, warm-ups, rehearsal planning, editing, programming and concert production will also be included. Prerequisite: MUSC 0400 or 0550. Written permission required. May be repeated for credit.

MUSC 1700. Score Reading and Conducting. The art of reading, analyzing, and conducting a musical score. Studies in clef reading, transposition, ear-training, and structural analysis to develop the skills needed for full comprehension of an orchestral score. Introduces the theory and technique of conducting with practice in the art of physical gesture. Selected repertoire from the Baroque through contemporary periods are studied and conducted in class. Prerequisite: MUSC 0550 or permission of the instructor. May be repeated for credit.

MUSC 1701. Orchestral Conducting. We will discuss, study and practice various technical approaches to conducting through the examination of standard repertoire. Students will develop skills in score reading and analysis. This course will provide a supportive workshop environment. Students will be given the opportunity to conduct an in class ensemble. Repertoire will small to large symphonic works from Händel through Stravinsky, depending upon the needs of each student and over all class level. Prerequisites: MUSC 0550-0560. Audition on the first day of class with Händel's Messiah Overture. Students will play for their colleagues. Prior knowledge of orchestration and instrumentation is helpful. Knowledge of transposition and C clefs is helpful. If you have placed out of music theory at Brown or have questions, please contact the instructor at: brandon_brown@brown.edu

MUSC 1710. Choral Conducting. An introduction to the art of conducting, with emphasis on choral training. A study of the relationship of gesture to sound will be combined with a survey of the choral repertoire, beginning with Gregorian chant and covering renaissance motets, masses and madrigals, Baroque works with instruments, excerpts from Mozart's vespers, 19th-century Romantic part songs, and selected 20th-century. Issues of basic vocal production, warm-ups, rehearsal planning, editing, programming and concert production will also be included. Prerequisite: MUSC 0400 or 0550. Written permission required. May be repeated for credit.

MUSC 1810. Applied Music Program: Instruction in Vocal or Instrumental Music. Half credit each semester. Restricted to skilled musicians. Restricted to skilled musicians demonstrating mastery of an advanced repertory in their fields. Openings are limited. Enrollment and re-enrollment is by audition and jury. Lessons are given by consultants to the Applied Music Program. MUSC 0830, 0840 is prerequisite to this course. A fee is charged for enrollment. Copies of the Applied Music Program Guidelines giving detailed information are available online at www.brown.edu/music. Prerequisite: MUSC 0400, or MUSC 0550, MUSC 0560. Written permission required. May be repeated up to four times for credit.

MUSC 1900. Introduction to Ethnomusicology. This seminar offers an introduction to the theoretical and method in ethnomusicology, a discipline grounded in ethnographic research and writing on musical practices. We will think, talk, and write about how and why people make music, as well as how and why ethnomusicologists go about their work. Students will undertake independent fieldwork projects on musical communities, learning first-hand about both the special potential and the practical/ethical challenges of this type of research. Class studies highlight such issues as tradition, appropriation, postcolonial politics, and the ethics of fieldwork. Prerequisites: sophomore standing; MUSC 0400/0550 or ETHN 1000 or instructor permission.
MUSC 1900Z. Echoes of the Everyday: Telling Stories with Sound. This course explores the many modes of nonfiction story-telling made with sound (sonic ethnography, audio documentary, sound art, and audio internet archives). Students will learn the tools of audio technology to record, edit, and produce critically aware sound works that interpret culture and everyday lived experience. Students will make location sound recordings, critically analyze those recordings, and re-present them through their own independent audio works. Exploring fine-grained aesthetic and ethical details between artistic and ethnographic representation, students will offer and receive constructive feedback throughout their process. Student projects will be contextualized with readings that help them interrogate everyday sonic praxis.

MUSC 1905A. Music and Cultural Policy. What is to be done about music and the people who make it? All over the world, individuals, governments, NGOs, and other groups are making plans for music: to ensure its survival, to make it known to a wider public, or to use it as an engine of economic growth. This course will examine various social engineering projects involving music. Topics will include media and internet regulation; ownership of music and intellectual property law; the role of institutions such as UNESCO; music in war and peace; music, heritage, and cultural tourism; and conservation, stewardship, and sustainability. No prerequisites.

MUSC 1905B. Indigenous Music of the Americas (ETHN 1890D). Interested students must register for ETHN 1890D.

MUSC 1905C. Open Source Culture (MCM 1700N). Interested students must register for MCM 1700N.

MUSC 1905D. African American Musical Theatre. This seminar explores the rich history of African American musical theater, from the first black musical (A Trip to Coontown (1897)) through Dreamgirls and beyond. The course will encompass shows with all-black performance and creative teams as well as those with white producers and black casts. Drawing on the resources of the African American Sheet Music Collection at the John Hay Library, there will be a special focus on the lesser-known musicals of the early twentieth century. Issues of race, representation, and performance will be explored through theoretical and historical readings, as well as through available scores, recordings, and films.

MUSC 1905E. Music in the Middle East and North Africa. This course provides an introduction to the music of the eastern Mediterranean, north Africa, Turkey, and Iran. Throughout this tour we will view music culture through a variety of thematic lenses. We will see how music is implicated in identitarian discourses; how musical forms transcend political boundaries, ethnic lines, and religious divides; how religion constrains and stimulates musical expression; and how music intersects with gender and sexuality. We will explore elite, folk, and popular genres. Though we will also discuss musical structures and terminology, no musical training is necessary for this course.

MUSC 1905F. Latinx Music in the U.S. (LACA 1504E). Interested students must register for LACA 1504E.

MUSC 1910. Music and Mind. Explores music perception in terms of auditory and cognitive processes such as auditory perception, memory, and learning. Lectures, discussions, and demonstrations review and analyze a body of scientific research on the psychology of music. Problem sets and a collaborative laboratory project. Prerequisites: PY 1 (PSYC0010) and MU 1 (MUSC 0010) or permission of the instructor.

MUSC 1920. Music and Modern Life. Examines topics related to the everyday use of music: the determinants of musical taste; music for emotional self-management (in the health club or Iraq War); “high” vs. “low” music; eclectic taste; popular music and the music industry; mp3blogs; new business models. Readings (in sociology, history, and cultural studies) and original field research by class members. Instructor permission required. Enrollment limited to 20.

MUSC 1921. Music, Nature, Ecology. Explores how music mediates human relations to the natural world. Via case studies drawn from Western and non-Western societies, we will examine how theorists use sound to think through the difference between humans and non-humans; how composers and soundscape artists like Grieg, Ives, Westerkamp, and John Luther Adams shape listeners’ perceptions of natural worlds and ecological systems; how people in Papua New Guinea, Mongolia, and the Bolivian Andes use sound to understand ecological awareness; how instruments are implicated in human relationships with the environment; and the ways that sound art helps to challenge longstanding distinctions between nature and its others.

MUSC 1923. Music in the Andean Countries: From Cumbia to Carnavalito. This course provides an introduction to the music of South America’s Andean countries. Through texts, listenings, and hands-on instruction, students will explore the social histories and stylistic principles of genres like Colombian and Peruvian cumbia, Afro-Peruvian festejo and landó, Chilean nueva canción, and the sikuri and huayno music of South Andean Quechua and Aymara peoples. Class sessions balance cultural analysis with opportunities to play, and students are expected to develop some facility with key songs and rhythms. No experience is necessary, though inexperienced musicians can expect to focus on instrumental or vocal parts that present a lower bar to participation.

MUSC 1926. Gospel Music from the Church to the Streets (RELS 1650). Interested students must register for RELS 1650.

MUSC 1930. Music of Indonesia. The traditional music of Java, Bali, and Sumatra, with special attention to the bronze percussion ensembles (gamelan) and their use in ritual, dance, and drama. Topics include: music and trance; the impact of colonialism; nationalism, modernization, and tourism; and Indonesian music and “world beat.” Theory and practice are integrated through extensive instruction on Brown’s gamelan instruments. Enrollment limited to 20 students.

MUSC 1931. Music of Ireland. An introduction to the traditional music of Ireland through readings, lectures, listening, and participation. The historical and cultural context of the music is considered as well as the instruments, genres, and styles.

MUSC 1932. American Roots Music. This seminar offers a critical and comparative exploration of American roots music, a category comprising folk, traditional, and popular genres that have been labeled “heritage music” or “ethnic music” in the context of American multiculuralism. Major case studies include African American, Mexican American, and Anglo American traditions/repertoires, with geographical emphases in Appalachia, the city of Chicago, and the state of California. Readings draw on both historical and ethnographic scholarship. Some background coursework in ethnomusicology, cultural anthropology, American Studies, and/or ethnic studies is required. Prerequisite: MUSC 1900 or ETHN 1000 (formerly ETHN 0500) or instructor permission.

MUSC 1933. Music of India. A survey of the music cultures of India. Intensive study of the classical traditions as well as an introduction to folk, tribal, and urban popular musics. Reading, listening, and class discussions focus on theory, history, and aesthetics. Improvisation; music and the dramatic arts; the social organization of music-making; and music as an expression of class, culture, and subculture in modern India. Prerequisite: MU 55 (MUSC 0550) or permission.

MUSC 1934. Music of Turkey. A study of the traditional, classical, folk, and popular music traditions of Turkey. Through directed reading, listening, and video viewings, students will become familiar with Turkey’s major music traditions and instruments, learn relevant musical concepts and terminology, and develop critical listening skills. Students will also learn to perform the basic modes and rhythmic cycles of several Ottoman/Turkish musical styles. No instrumental skills are required. Students will be expected to learn to sing Turkish melodies, but will not be graded on their vocal performances.
MUSC 1950. Transcription and Analysis of Jazz. Transcriptions from major jazz recordings are made by the students. The personal styles of the musicians are defined through analysis in the context of the various trends in jazz history. The transcriptions are analyzed within the parameters of rhythmic and harmonic structures, tone quality, motif design, and idiomatic performance. Singing, ear-training, and dictation are used to develop transcription skills. Instructor permission required.

MUSC 1935. Beyond Bossa Nova: Brazilian Music and Society. Students with experience in African and related musical traditions perform drumming, dancing, and singing of Ghana and the diaspora. Focus on a more challenging repertoire with emphasis on multi-part, lead, and improvisational playing. Prerequisite: audition. May be repeatable for credit. Instructor permission required. Enrollment limited to 15 students. Fall MUSC1960 S01 17486 W 7:30-9:50PM(12) (M. Obeng) Spr MUSC1961 S01 25974 W 7:30-10:00PM(14) (M. Obeng)

MUSC 1970. Individual Independent Study. Directed undergraduate research for advanced students. Prerequisite: permission of the instructor. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

MUSC 1971. Digital Media and Virtual Performance. This seminar investigates digital media practices at the intersection of virtual and embodied experience, exploring overlapping genres of play, performance, pedagogy, and participatory culture. Topics include digital games, viral videos, online music and dance lessons, and the performative aspects of virtual communities. Theoretical approaches draw on scholarship in media ethnography, performance studies, human-computer interaction studies, gender studies, and ethnomusicology. We will give equal attention to production, circulation, and reception practices, and consider their contemporary convergence. The course requires critical engagement with a diverse range of media, genres, and cultural contexts, encouraging students to examine their own media practices. Registration permission granted based on questionnaire distributed at first class meeting.


MUSC 1937. Dancing the African Diaspora. This course investigates the politics of movement, across oceans and dance floors, at the rich intersection of African Diaspora and Dance Studies. We examine the relationship between dance, movement, gesture and music in the expressive practices of the African Diaspora. Students will engage with theoretical and ethnographic approaches to transnationalism, music, performance and the body, and race and gender, alongside multimedia and experiential workshops. Expounding a broad geographical focus, we will explore music and dance practice from Chicago’s clubs to the Broadway stage to the streets of Rio and Cape Town. No previous musical knowledge required. Enrollment limited to 20.

MUSC 1940. Applied Ethnomusicology. Theory and practice in applying the cultural study of music outside the academic world and in the public interest. Students will research, document, interpret and present music from local and regional ethnic communities. Prerequisite: MU 5, 6, 120 (MUSC 0050, 0060, 1200), graduate standing, or written permission from the instructor.

MUSC 1945. Wax, Tape, Wire: Music Technologies from Phonograph to Laptop. This seminar-practicum explores the art, science, and politics of music technology from a variety of theoretical and experimental perspectives. Topics will include early mechanical instruments; World War II radio; 1960s-70s studio innovations (multitrack, analog synthesis, tape effects); and contemporary “virtual” tech (mp3, Internet, remix apps). We will read from ethnomusicology, music history, cultural studies, and cognitive science. Most class meetings will include lab where students will create sound projects related to course topics. We will work with Ableton Live software, plus samplers, drum machines, and vinyl. No previous musical or technological training required. Enrollment limited to 15.

MUSC 1950. Transcription and Analysis of Jazz. Transcriptions from major jazz recordings are made by the students. The personal styles of the musicians are defined through analysis in the context of the various trends in jazz history. The transcriptions are analyzed within the parameters of rhythmic and harmonic structures, tone quality, motif design, and idiomatic performance. Singing, ear-training, and dictation are used to develop transcription skills. Instructor permission required.

MUSC 1960. Advanced Ghanian Drumming and Dancing Ensemble. Students with experience in African and related musical traditions perform drumming, dancing, and singing of Ghana and the diaspora. Focus on a more challenging repertoire with emphasis on multi-part, lead, and improvisational playing. Prerequisite: audition. May be repeatable for credit. Instructor permission required. Enrollment limited to 15 students. Fall MUSC1960 S01 17486 W 7:30-9:50PM(12) (M. Obeng) Spr MUSC1961 S01 25974 W 7:30-10:00PM(14) (M. Obeng)
MUSC 2040. Current Directions in Ethnomusicology.
The field of ethnomusicology has become increasingly interdisciplinary over the past decade, drawing inspiration from cultural studies, gender studies, popular culture studies, performance studies, psychology, phenomenology, postcolonial studies, and science and technology studies. In this seminar we will read major works of musical scholarship (most from the past ten years) that illustrate the key theoretical approaches alive in ethnomusicological research today.

MUSC 2050. Musical Thinking.
An ethnomusicological approach to the analysis of musical structures and processes. Case studies include jazz, Irish music, French-Canadian fiddling, North Indian singing, Javanese gamelan, African drumming, and Japanese court music. Topics include linguistic, psychological, and oral-formulaic theories; historical change; cross-cultural modal theory; improvisation; the nature of African rhythm; “insider” versus “outsider” accounts. Readings, discussion, and first-hand experience of selected musics. Facility with Western staff notation required.

MUSC 2060. The Efficacy of Music.
The power of music to influence the human body and mind is widely acknowledged but poorly understood. This course considers the efficacy of music in general and connections between music and altered states of consciousness in particular. Perspectives come from musical ethnography, participant observation, phenomenology, religious studies, and neuroscience.

MUSC 2070. Music and Identity.
From 19th-century European nationalism to 20th-century American multiculturalism, people have used music to affirm their identities. Drawing on anthropological and sociological theory, we examine the variety of connections between music and identity in several case studies. We consider the possible contributions of music to cross-cultural understanding, and discuss the ethics of musical border-crossing.

MUSC 2080A. Music and Technoculture.
This seminar explores ethnographic and theoretical approaches to the study of music technologies in cultural and historical context. How do emergent technologies affect the nature of musical experience? What does technology have to do with ideologies of musical creativity, authenticity, virtuosity, and aesthetic value? We will give equal attention to production, distribution, and consumption practices (and their convergence). Major topics include “liveness” and recording, remix and remediation practices, interfaces/instruments, labor and property, virtual scenes, and digital gameplay. Prerequisite: graduate standing or written permission.

MUSC 2080B. Ethnography of Popular Music.
This seminar explores ethnographic work on popular music, including scholarship rooted in ethnomusicology, sociology, and performance studies. We will discuss case studies from around the world and will compare contemporary ethnographic research with other approaches to popular music (e.g., Frankfurt School critical theory, Birmingham School cultural studies, and text-oriented popular music studies). Prerequisite: graduate standing or written permission.

MUSC 2080C. Music and Memory.
This graduate seminar will investigate how music is bound up with human memory (individual and collective, cultural and cognitive). Readings will draw on scholarly work in ethnomusicology, anthropology, history, and cognitive science. Key themes include diaspora, nostalgia, oral and written transmission, ritual commemoration, and music’s place-making potential. Students will undertake individual research projects. Prerequisites: graduate standing or written permission.

MUSC 2080D. Music, Nation, and Nationalism.
This course explores the relation between music and nationhood, as a historically particular form of collective identity, and a dominant political category in late modern societies. Students will work with key texts in the study of nationhood and nationalism, applying them to musical case studies from different world regions. Touching upon art and popular music, these cases will explore the use of nationalist rhetoric to draw citizens into state projects; the appropriation of minority expressions in defining a national self; efforts by postcolonial societies to forge national sentiment from the fragments left by decolonization; and the nation’s fate after globalization.

MUSC 2080E. Seminar in Ethnomusicology: Historiography of Music and the Performing Arts.
Advanced seminar in methods of historical research and their relevance to the interpretation of music, the performing arts, and culture. Readings include Foucault, Collingwood, Schorske, Said, Adorno, Pierre Nora and Diana Taylor, as well as musicalological essays by Taruskin, DeVeaux, Nettl, Tomlinson, Teitle, Lawrence Kramer, Susan McClary, Kerman, and Nicholas Cook. Open to juniors, seniors, and graduate students.

This course explores the effects that follow when music is set in motion beyond local spaces of creation. Bringing a variety of different theoretical perspectives to bear upon case studies from around the globe, it surveys the distinct social and technological networks that enable sounds to travel, and considers the way that methods of circulation give rise to different kinds of social groups. It explores the way that such processes challenge inherited cultural and political boundaries, and shows how technological changes present musicians and listeners with novel means to resituate musical meaning, in new contexts. Open to graduate students only.

MUSC 2080G. Seminar in Ethnomusicology: Sound Studies.
Explores sound studies through readings of exemplary texts and discussions of the key debates that enliven this interdisciplinary field of inquiry. Drawing on philosophical, musicological, anthropological, and other kinds of writings, it explores issues like the way that relations between sound, noise, silence, and music have formed in different cultures and different historical periods; ideological structures that determine the place of sound in artistic practice and in everyday life; the power relations that are implicated in the design of local soundscapes; and the place of aural perception within the sensorium, among other potential topics. Enrollment limited to graduate students.

Ethnomusicology has always been interdisciplinary, and is becoming more so. The student today may encounter concepts from semiotics, linguistics, cultural studies, literary theory, political economy, sociology, cognitive psychology, media studies, sound studies, science and technology studies, organizational studies, and material culture studies, and other disciplines as well. We will examine some of the key concepts of these fields and consider their possible uses in the study of the performing arts. From ‘affordances’ to the ‘type/token distinction,’ from ‘actor-network theory’ to the ‘third-person effect,’ we will learn to apply (and criticize) concepts presupposed by much current socio-cultural theorizing.

MUSC 2085. Ethnomusicology Workshop.
This workshop-style seminar focuses on professional writing genres in ethnomusicology (e.g., conference papers, grant proposals, human-subject research protocols, syllabus development, dissertation-craft, preparing job application materials, navigating the scholarly peer-review process). Students at all stages of the Ph.D. program will present work in progress and offer collegial feedback. Mandatory S/NC, half-credit per semester, repeatable for credit.
MUSC 2090A. Seminar in Ethnomusicology: Hypertext, Multimedia. Instruction in, and critical discussion of, computer-based hypertext and multimedia representation and interpretation of people making music. Sounds, pictures, texts, animations, movies. Students will complete a non-linear, reflexive hypermedia project to take advantage of the experimental moment in musical ethnography. Prerequisite: graduate standing or permission of instructor.

MUSC 2090B. World Music in Theory and Practice. This seminar investigates "world music" as a contested term in ethnomusicology, a music-industry marketing category, and a college classroom subject. We will read critical accounts of the development and significance of the "world music" concept, compare several world music textbooks, experiment with teaching the exercises/assignments therein, and explore the scholarly literature on multiculturalist pedagogy. Prerequisite: graduate standing or written permission.

MUSC 2095. Creativity. A multidisciplinary survey of creativity, with emphasis on the arts, and especially music. Using perspectives from psychology, history, economics, law, and anthropology we will consider the sources, mechanisms and value of creativity; the role of individual and social factors in creativity; ownership of the results of creativity; biases in the promotion and evaluation of creativity; the relationship of gender and racial diversity to creativity; and the political economy of creativity. Fall MUSC2095 S01 17908 T 12:30-2:50(08) (M. Perlman)

MUSC 2100A. The Instrumental Sonatas of Beethoven. An analytic survey of Beethoven's sonatas for piano, violin and piano, and cello and piano from a variety of perspectives, including: topical, semiotic, and hermeneutic analysis; Schenkerian analysis; historical and critical studies; and recent developments in theory of sonata form. Students who have taken MUSC 1040 may request permission to enroll in this course. Written permission required.

MUSC 2200. Composition Seminar. A forum for graduate composers to share and critique current projects. Visiting artists and analysis of relevant outside repertoire will augment the group and one-on-one meetings. Enrollment is limited. Written permission required. May be repeated for credit.

MUSC 2210. Digital Performance. A production seminar examining the artistic impact and creative potential of digital media in the context of live performance. Readings and analysis of work examine innovations in performance practice from dance, theatre, performance art and music. Collaborative assignments investigate video projection, sound design and interactive sensor technology, culminating in a final large-scale performance. Permission will be granted based upon a questionnaire given in the first class. Fall MUSC2210 S02 16692 W 3:00-5:30(17) (E. Nathan)

MUSC 2220. Designing and Playing Alternative Controllers. This seminar will explore the science and aesthetics of designing alternate controllers for musical performance. Topics will include basic electronics and hardware prototyping, instrument construction, theories of gesture, human-computer interface issues, and the challenges of mapping sensor data to meaningful musical parameters. Previous experience with MaxMSP or other real-time programming required. Permission of instructor required.

MUSC 2221. Seminar in Computer Music and Multimedia Composition. A weekly forum for graduate composers to share and critique current projects. Visiting artists and analysis of relevant modern repertory will augment class discussion of student work. Individual private lessons - taught in addition to the three-hour seminar - help students focus on compositional technique and other problems of expression specific to their own projects.

MUSC 2230. Composing for Real-Time Systems. This course examines complementary issues of time and space in 20th and 21st Century music, providing a nuanced discussion of how composers have attempted to redefine musical temporaliy and portray or actively use acoustic or environmental spaces. From early spatialization experiments of Ives and Mahler to music that eschews traditional development - thus freezing temporality (Feldman) - or is in a constant state of transition (spectral music), we will also examine ideas of orchestrated spaces produced by timbral and material constructions of instruments, and advances in complex timbres and electronics. Enrollment limited to 15. Instructor's permission required for undergraduates.

MUSC 2240. Composing and Improvising with Real-time Systems. This seminar will explore the use and creation of interactive computer music systems from the point of view of the performer/programmer. Using improvisation as a starting point, we will explore the aesthetics and philosophy of performance, designing real-time systems in MaxMSP that enhance the relation between action and event using network strategies. MUSC 2245. Experimental Voice. In Experimental Voice, we will study and undertake acoustic and electronic modifications of voice. We will consider applications of voice by diverse practitioners such as Jaap Blonk, Ami Yoshida, and Pamela Z. Using these pieces as inspiration, we will make creative and critical work aimed at challenging and broadening our notions of what voice and vocal performance can be. Students from all departments are welcome. Prerequisites: none. Permission required for undergraduates. Maximum enrollment: 12.

MUSC 2255. Sound Networks. This graduate-level seminar explores the creative and critical underpinnings and ramifications of "networks" in mediated sound practice. We will study various extant approaches to networking, including transmission of audio signals and control information in musical ensembles and interactions with big data and corpus composition, and we will make new sonic works based on these techniques. We will also examine the institutional contexts of networks, relating to scholarly notions of liveness, community, scene, and genre. Prerequisite codes are required for enrollment, and will be distributed based on first-class attendance and questionnaire responses.

MUSC 2260. Topics in Computer Music Theory and Analysis. Explores the science and aesthetics of designing alternate controllers for musical performance. Topics include basic electronics and hardware prototyping, instrument construction, theories of gesture, human-computer interface issues, and the challenges of mapping sensor data to meaningful musical parameters. Written permission required.

MUSC 2270A. Exploring Technologically Mediated Performance via Attali's 'Noise: The Political Economy of Music'. This course configures Attali's notions of 'representing', 'repeating', and 'composing' as theoretical catalysts for the development of contemporary creative practice. The course is structured around seminars, collaborative ensemble work, and individual projects. We negotiate Attali's text in its entirety and realize appropriate responses in a variety of formats, including: performance, installation/intervention, audio/video documentation. Additional short readings and presentations enrich critical discussion and practical activity. This course is intended to follow on from various MEME courses such as 1210, 1240F, 1240G, 2220, 2230, 2280. Enrollment is restricted to fourteen. Permission of instructor is required.

MUSC 2270B. Performance in a Virtual World. A co-taught production course exploring emerging technology in the context of live performance, focusing on techniques where the body appears both on stage and on screen. What does it mean to be "live" in a virtual world, and how does that impact movement, interaction and expression? Students participate in a series of hands-on workshops that examine embodied performance using projections, motion capture, video processing, and sound design, along with various interactive and immersive techniques. The course culminates in a public performance of new works created in collaborative groups. Open to graduate and advanced undergraduate students. Permission required.
MUSC 2280. Designing-Large-Scale Multimedia Projects.
A production seminar designed for students working on a single, large project in Multimedia and/or Computer Music. The course covers planning and implementation strategies, with group critiques of proposals and works-in-progress. The class structure includes individual lessons for students working on a graduate or undergraduate thesis project. Permission will be granted based upon a questionnaire given in the first class.

MUSC 2290. Seminar In Sonic Practice.
This studio and seminar course provides an exploration of contemporary sonic practice, facilitates the development of sound-based creative work, and encourages a critical approach to producing work in the field. Through discussion, reading, listening exercises, independent research, creative production and critiques, we will examine a number of intersecting areas of sonic practice including sound as a cultural, environmental, and artistic medium, phonography, sound installation, mobile audio, noise as strategy and material, linguistic and other sonic narrative structures. Students will develop sound-based pieces individually and in groups which function as creative research into the subjects areas of the course.

Spr MUSC2290 S01 25886 M 3:00-5:30(13) (E. Osborn)

MUSC 2300A. Critical Improvisation Studies.
Advanced seminar exploring improvisation from various perspectives: historical, anthropological, philosophical, ethical, and creative. We study improvisation in diverse musical traditions, in other arts, and in problem-solving contexts such as business, technology, and games. Discussion topics include individual vs. group improvisation, the status of "freedom" in creative processes, and the social and artistic functions of improvisation. Instructor permission required.

MUSC 2450. Exchange Scholar Program.
Fall MUSC2450 S01 15317 Arranged 'To Be Arranged'
Fall MUSC2450 S02 15318 Arranged 'To Be Arranged'

MUSC 2970. Preliminary Examination Preparation.
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.
Fall MUSC2970 S01 15319 Arranged 'To Be Arranged'
Spr MUSC2970 S01 24205 Arranged 'To Be Arranged'

MUSC 2980. Reading and Research.
Directed graduate research. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

MUSC 2990. Thesis Preparation.
For graduate students who have met the residency requirement and are continuing research on a full time basis.
Fall MUSC2990 S01 15320 Arranged 'To Be Arranged'
Spr MUSC2990 S01 24206 Arranged 'To Be Arranged'
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Helvetica was used instead of Arial.
The editor may contact Leepfrog for a draft with the correct fonts in place.