CONSERVATORY (CONSVTY)

Courses

CONSVTY 101C Voice Class I Credits: 2
A course in the fundamentals of correct voice productions; breathing, breath control, study of vowel forms and consonants. Elementary songs. Poise, posture, and stage presence. This course covers two points of view: development of the student's own voice and the pedagogy of voice-class instruction. A voice audition is required before registration.

CONSVTY 103 Fundamentals of Music Theory for Musicians Credits: 2
An introduction to the rudiments of music theory and aural skills. Designed primarily as a review course for Conservatory students. Non-music majors who desire an accelerated theory fundamentals class may also enroll in this course with the approval of the instructor.

CONSVTY 101C - MOTR MUSC 101: Music Fundamentals

CONSVTY 103N Fundamentals of Music Credits: 3
An introduction to the basic elements of music and music notation, including the study of melody, rhythm, scales and keys, triads, 7th chords, the piano keyboard and the musical staff. Designed primarily for those interested in learning about music but with little or no formal study of music theory.

CONSVTY 104 Jazz Improvisation I Credits: 2
A systematic approach to the art of jazz improvisation. Emphasis upon performance as well as analysis.

CONSVTY 108 Beginning Piano for Non-Music Majors Credits: 2
A class for non-music majors to acquire basic piano skills. Popular arrangements and group techniques designed to encourage students to play the piano for pleasure.

CONSVTY 110 Keyboard Skills I Credit: 1
Group instruction focused on developing basic keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications.

CONSVTY 114 Keyboard Skills I for Piano Majors Credit: 1
Techniques of sight reading, transposition, improvisation and open-score reading.

CONSVTY 115 Keyboard Skills II for Piano Majors Credit: 1
Continuation of CONSVTY 114.

CONSVTY 118 Electronica Credits: 3
An overview of the vast body of music that falls under the label "electronica". Course consists of a historical survey as students acquire language to talk about music, learn how technology informs the creation of the music, and summarize musical trends and cultural influences on the music. Final project is the creation of a piece of electronica using a musical app on a mobile device or a computer.

CONSVTY 120 Music Appreciation Credits: 3
Designed for the general University student with little or no music background and required for Dance Majors (no credit for music majors). An emphasis on the basic elements of music and the historical and stylistic periods, illustrated by examples from different genre, such as instrumental and vocal ensembles, large and small, solo literature for voice and instruments, and dance. Three class sessions a week with frequent live performance and guest speakers.
Prerequisites: Non-music major.

CONSVTY 120C - MOTR MUSC 100: Music Appreciation

CONSVTY 120N Music Appreciation Credits: 3
A distance learning class designed for the general University student with little or no music background. Video lectures, interviews, performances, and discussion threads, are all delivered online. Course emphasizes historical and stylistic periods, genres, and music listening. Interviews with guest professors and performances of Conservatory faculty and students are included. Students may access the course at any time of the day or night, but exams must be taken on campus unless otherwise arranged.
Prerequisites: Non-music major.

CONSVTY 123 Keyboard Skills II Credit: 1
Continued group instruction focused on developing basic keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications.
Prerequisites: CONSVTY 110.
CONSVTY 125 History and Development of Rock and Roll Credits: 3
Designed for students with little or no music background, the course is an exploration of American popular music from early Rhythm and Blues and Country Western through Woodstock. Examines in detail the social/racial issues most important to the music and the cultural history of twentieth-century America. The course features online video lectures and numerous interviews with professors and scholars from other disciplines, presenting a perspective of the influence of this music on nearly every area of American life. Students are required to participate in online discussion groups as part of the class. Music majors may enroll for music elective credit.

CONSVTY 125 - MOTR MUSC 100RP: Music Appreciation-Rock/Pop

CONSVTY 126 Introduction to World Music Credits: 3
Introduction to World Music provides tools and paths for you to see the world differently and to enhance diversity by exploring musical traditions from around the world, many of which exist in Kansas City. Through lectures, videos, and live performances, Introduction to World Music will provide insight into the musical cultures of Africa, North America, the Caribbean, India, East Asia, Korea and Latin America and transform your view of our rapidly changing society. Open to all students.

CONSVTY 126 - MOTR MUSC 102: World Music

CONSVTY 128 Music Teaching Matters: A Professional Beginning Credits: 2
Music Teaching Matters: A Professional Beginning (CONS 128) allows students to explore the professional world of teaching music. Students will develop the ability to think and act like professional music educators through readings, discussions, presentations, field experiences, interviews, reflections, and opportunities to practice your craft as a teacher.

CONSVTY 128 - MOTR MUSC 102: World Music

CONSVTY 133 Beginning Composition I Credits: 3
Introduction to the compositional process, including notation, calligraphy and score preparation, styles and forms, and related topics. A weekly one-hour lab is required.

CONSVTY 133A Beginning Composition For Non-Composition Majors I Credits: 2
An introductory course in music composition, with exercises in instrumentation, notation, orchestration, form, melodic construction, harmony, counterpoint, and rhythm. Discussion and analysis of current works, trends and techniques in music composition. Final project is an original composition. A weekly one-hour lab is required.

CONSVTY 133B Beginning Composition for Prospective Composition Majors Credits: 3
A class for students wishing to work toward major status in the music composition program. Exercises and projects as in 133A, with an extra hour per-week of in-depth, guided exercises and portfolio development. A weekly one-hour lab is required.

CONSVTY 134 Beginning Composition II Credits: 3
Continuation of CONSVTY 133.
Prerequisites: CONSVTY 133.

CONSVTY 134A Beginning Composition for Non-Composition Majors II Credits: 2
A weekly one-hour lab is required.
Prerequisites: CONSVTY 133A.

CONSVTY 134B Beginning Composition for Prospective Composition Majors II Credits: 3
Continuation of CONSVTY 133B. Exercises and projects as in CONSVTY 134A, with an extra hour per-week of in-depth, guided exercises and portfolio development. A weekly one-hour lab is required.
Prerequisites: CONSVTY 133B.

CONSVTY 138 Music Therapy Foundations Credits: 2
This course provides students with foundational information pertaining to the music therapy profession. Course topics include the history of music therapy, populations that music therapists serve, and an introduction to the use of music in therapeutic settings.
Prerequisites: Music Therapy Student.

CONSVTY 138 - MOTR MUSC 103: Music Therapy Foundations

CONSVTY 141 Musicianship I Credits: 4
Musicianship I focuses on diatonic harmony through an integration of theory and aural skills. It covers a music fundamentals review, principles of chord construction, four-part writing and harmonic syntax, as well as the application of concepts in analytical assignments and projects, dictation, and singing. Particular attention is given to the development of critical writing skills and the creation of stylistic compositions.
Co-requisites: CONSVTY 110.
CONSVTY 142 Musicianship II Credits: 4
Continuation of CONSVTY 141 with attention to phrase structure, small forms, and an introduction to chromaticism including such topics as applied chords, simple modulation, and modal mixture. Particular attention is given to the development of critical writing skills and the creation of stylistic compositions.

Prerequisites: CONSVTY 141.

Co-requisites: CONSVTY 123.

CONSVTY 180 Music in Special Education Credits: 3
Class demonstration and participation in the use of music materials for handicapped children.

CONSVTY 185B Foreign Language For Singing II Credits: 2
A course for Italian diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

CONSVTY 185C Foreign Language For Singing III Credits: 2
A course for German diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

CONSVTY 185D Foreign Language For Singing IV Credits: 2
A course for French diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

CONSVTY 202 Basic Techniques of Audio Recording I Credits: 3
A study of the philosophy, history, and development of audio recording. Practical application of recording techniques and development of recording skills.

CONSVTY 203 Basic Techniques of Audio Recording II Credits: 3
Continuation of study of recording techniques and development of recording skills.

Prerequisites: CONSVTY 202.

CONSVTY 204 Jazz Improvisation II Credits: 2
Prerequisites: CONSVTY 104.

CONSVTY 205 Applied Jazz Studies Credits: 2
Unlimited repeatability. This weekly private lesson includes the study of advanced concepts used to compose spontaneously. Includes the analyses of harmonic progressions, applications of scales and rhythmic interpretation. Only open to Jazz majors.

CONSVTY 210A Clinical Experience: I Credit: 1
Clinical Experience I.

CONSVTY 210B Clinical Experience: II Credit: 1
Primarily assists the site coordinator with some leadership responsibilities.

CONSVTY 210C Clinical Experience: III Credit: 1
Equal assisting and leading responsibilities on-site

CONSVTY 210D Clinical Experience: IV Credit: 1
Some assisting and primarily leading responsibilities on-site.

CONSVTY 210E Clinical Experience: V Credit: 1
Clinical Experience V.

Co-requisites: CONSVTY 408.

CONSVTY 210F Clinical Experience VI Credit: 1
Clinical Experience VI.

Co-requisites: CONSVTY 409.

CONSVTY 223 Keyboard Skills III Credit: 1
Group instruction focused on developing intermediate keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications.

Prerequisites: CONSVTY 123.

CONSVTY 233 Intermediate Composition I Credits: 3
Continuation of CONSVTY 134. A weekly one-hour lab is required.

Prerequisites: CONSVTY 134.

CONSVTY 233A Intermediate Composition for Non-Composition Majors I Credits: 2
Continuation of CONSVTY 134A. A weekly one-hour lab is required.

Prerequisites: CONSVTY 134A.
CONSVTY 234 Intermediate Composition II Credits: 3
Continuation of CONSVTY 233.

Prerequisites: CONSVTY 233.

CONSVTY 234A Intermediate Composition for Non-Composition Majors II Credits: 2
Continuation of CONSVTY 233A. A weekly one-hour lab is required.

Prerequisites: CONSVTY 233A.

CONSVTY 235 Techniques of Electronic Music I: Digital Audio Credits: 3
This course is designed to give students a thorough grasp of studio hardware and software used in composing music with digital audio. Studio configuration, sampling/recording, mixing, effects processing, synthesis, multi-tracking, wave editor and digital audio work station software, basic MIDI and electroacoustic literature and ear training will be discussed in the process of creating a short original composition. Focus will also be on fostering independent creativity and problem solving in a music studio. In addition to three 50-minute lecture/demo sessions per week, 3-5 hours minimum of in-studio work time is expected. Open to anyone regardless of musical training.

CONSVTY 236 Techniques of Electronic Music II: MIDI Credits: 3
This course is designed to give students a grasp of studio hardware and software used in composing music with MIDI. Studio configuration, sampling, mixing, effects processing, multi-tracking, MIDI, and basic digital audio work station software will be taught along with electroacoustic literature and ear training. The course focuses on creating a short composition using MIDI technology. Focus will also be on fostering independent creativity and problem solving in a music studio. In addition to three 50-minute lecture/demo sessions per week, 3-5 hours minimum of in-studio time is expected. Open to anyone regardless of musical training.

CONSVTY 238 Woodwind Techniques and Pedagogy Credit: 1
This course will discuss the fundamentals of playing and teaching woodwind instruments in an authentic setting. In order to achieve this, students are required to develop some performance ability as well as teaching techniques and strategies for each particular woodwind instrument. Basic principles, such as embouchure formation and development, fingerings, transposition, intonation, teaching materials, and teaching techniques will be covered. Flute, Clarinet, Saxophone, Oboe and Bassoon will be discussed during this course.

CONSVTY 239 Brass Techniques and Pedagogy Credit: 1
This course will discuss the fundamentals of playing and teaching brass instruments in an authentic setting. In order to achieve this, students are required to develop some performance ability as well as teaching techniques and strategies for each particular brass instrument. Basic principles, such as embouchure formation and development, fingerings, transposition, intonation, teaching materials, and teaching techniques, will be covered. Trumpet, French Horn, Trombone, Baritone, and Tuba will be discussed during the course.

CONSVTY 241 Musicianship III Credits: 4
Continuation of CONSVTY 142. Study of harmonic structures such as Neapolitan and augmented sixth chords, chromatic modulation, and symmetry. Detailed examination of larger forms and genres such as sonata, rondo, art song, and fugue. Particular attention is given to the development of critical writing skills and the creation of stylistic compositions.

Prerequisites: CONSVTY 142.

Co-requisites: CONSVTY 223.

CONSVTY 242 Musicianship IV Credits: 4
Continuation of CONSVTY 241. Study of late-nineteenth century chromaticism and analytical and compositional methods of twentieth and twenty-first century music, including set theory and twelve-tone theory. Particular attention is given to the development of critical writing skills and the creation of stylistic compositions.

Prerequisites: CONSVTY 241.

Co-requisites: CONSVTY 310.

CONSVTY 270 Marching Band & Jazz Ensemble Techniques Credits: 2
This course is designed to prepare pre-service teachers with pedagogical and organizational techniques for marching band and jazz ensembles in the schools. The course will include developing practical rehearsal techniques for teaching body manipulation in space, designing and evaluating marching band field design and maneuvers, jazz ensemble pedagogy, jazz improvisation pedagogy, and the use of appropriate materials. A field experience component will further student interaction with an active band program that will allow continued examination and development of a philosophy on the role of marching band and jazz ensembles within the school curriculum.

CONSVTY 285 Elementary Music Methods Credits: 3
Laboratory course for classroom teachers in which principles of instructional design will be applied to music teaching. Students who have extensive music background may elect CONSVTY 385 in place of CONSVTY 285.

CONSVTY 300 Studio Class Credits: 0
Experiential lab where students gain orientation and experience with pedagogy, literature, and performance.

Co-requisites: Enrollment in lessons.
An introduction to opera performance techniques for opera chorus/ensemble. Major literature for opera choruses may also be surveyed. Members of this class will be required to perform in the chorus of a UMKC Opera production. This course can be taken at any time during the student’s undergraduate degree and will count for one semester toward the requirement in the BM Vocal Performance degree of 2 semesters in a UMKC opera production. Students will be required to audition for the course to help the faculty assign the student to the proper voice part/section.

**Prerequisites:** Voice Audition.

**CONSVTY 301G Ensemble for Composers Credit: 1**
Observation, score analysis, non-performance participating during a semester’s rehearsals and performance by a participating Conservatory ensemble. Students a.) keep journals that are periodically reviewed and graded by the composition faculty, and b.) meet with composition faculty periodically to review and discuss issues raised in the ensemble settings.

**Prerequisites:** CONSVTY 234, Four semesters of major ensemble participation as a performer.

**CONSVTY 301H Musica Nova Credit: 1**

**CONSVTY 302 Orchestra Credits: 2**
Required of all qualified music majors and open to all interested students by audition.

**CONSVTY 302 - MOTR PERF 102O: Music Performance-Orchestra**

**CONSVTY 303B Jazz Band Credits: 2**
The Jazz Ensemble comprises saxophone, trombone, trumpets and rhythm section students of the highest level in the Conservatory and performs repertoire of the highest caliber available to the medium. The curriculum is well balanced between traditional, modern, and original music and requires advanced musical and technical facility amongst its members. The class is open to all UMKC students by audition.

**CONSVTY 303C Percussion Ensemble Credit: 1**

**CONSVTY 303E Jazz Workshop Credit: 1**
Jazz Workshop

**CONSVTY 303G Jazz Orchestra Credits: 2**
The Jazz ensemble comprises saxophone, trombone, trumpets and rhythm section students of the highest level in the Conservatory and performs repertoire of the highest caliber available to the medium. The curriculum is well balanced between traditional, modern, and original music and requires advanced musical and technical facility amongst its members. The class is open to all UMKC students by audition.

**CONSVTY 303J Large Ensemble Rhythm Section Workshop Credits: 2**
This weekly private lesson includes the study of advanced concepts used to compose spontaneously. Includes the analyses of harmonic progressions, applications of scales and rhythmic interpretation.

**CONSVTY 303MP Improvisational Music/Media Performance Ensemble Credits: 2**
IMP Ensemble explores improvisation in the broadest definition, where listening and responding become a way of real-time creation. IMP is a think-tank of people willing to risk and fail quickly, so a show can go on, using any new individual media to explore the boundaries of the medium and improvisation. No particular instrumental skill is needed, only an open mind. Non Conservatory students by instructor approval.

**CONSVTY 304 Jazz Improvisation III Credits: 2**

**Prerequisites:** CONSVTY 204.

**CONSVTY 305A Principles Of Chamber Music Credit: 1**
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.

**CONSVTY 305B Principles Of Chamber Music Credit: 1**
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.

**CONSVTY 305C Principles Of Chamber Music Credit: 1**
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.

**CONSVTY 305E Principles Of Chamber Music Credit: 1**
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.
CONSVTY 305G Principles Of Chamber Music Credit: 1
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coachings.

CONSVTY 305H Chamber Orchestra Credit: 1

CONSVTY 305J Chamber Music Guitar Credit: 1

CONSVTY 306A Conservatory Wind Ensemble Credits: 2

CONSVTY 306C Wind Symphony Credits: 2
The Wind Symphony comprises wind, brass and percussion students of the highest level in the Conservatory and performs repertoire of the highest caliber available to the medium. The curriculum is well balanced between traditional, modern, and chamber music and requires advanced musical and technical facility amongst its members. The class is open to all UMKC students by audition.

CONSVTY 307A Canticum Novum Credit: 1

CONSVTY 307B University Singers Credit: 1
Mixed chorus specializing in choral-orchestral literature. May be repeated for credit. Open by audition to University students, regardless of major.

CONSVTY 307C Conservatory Singers Credit: 1

CONSVTY 308A Conservatory Concert Choir Credit: 1

CONSVTY 309 Audio Recording III Credits: 3
Continuation of study of recording techniques and music production skills.
Prerequisites: CONSVTY 203.

CONSVTY 310 Keyboard Skills IV Credit: 1
Group instruction focused on developing intermediate keyboard skills in sight-reading, transposition, harmonization, accompanying, improvisation, technique, and repertoire. Music theory concepts will be reinforced through keyboard applications. The Piano Proficiency Exam is administered as part of this course.
Prerequisites: CONSVTY 223.

CONSVTY 311 Jazz Theory Credits: 2
The basics of written jazz harmony and its nomenclature will be addressed. Topics covered will include but not be limited to jazz scales and modes: chords, i.e. from the 7 through the 13 with all of their frequent jazz alterations; harmonic progressions, reharmonization; voice leading, dissonance; melody, transcription, analysis and the study of form(s). Notation will be addressed throughout. Students will acquire the fundamentals to pursue jazz improvisation, arranging and composition on a more informed level. This class is a prerequisite to Jazz Arranging.

CONSVTY 315 Music Therapy Piano Techniques Credits: 2
Course covers techniques of leading piano stylists from early ragtime to the present. Includes listening, analysis, arranging, and performing.
Prerequisites: Piano Proficiency Exam.

CONSVTY 316 Music Therapy Guitar Techniques Credits: 2
Course covers techniques of leading guitar styles from the 1920's to present. Includes listening, analysis, transcription, and performing.
Prerequisites: CONSVTY 373G.

CONSVTY 317 Music Therapy Ensemble and Improvisation Techniques Credits: 3
Playing and Improvising in free form and from a variety of popular genres from Swing to the present day.
Prerequisites: CONSVTY 316; Music Therapy Student.

CONSVTY 318 Jazz Ear Training and Listening Credits: 2
This course offers the student basic fundamental techniques needed to improve aural perceptions in both the translation of hearing into writing and the performance of reading into singing and playing in the jazz idiom. Introduction and practice in singing, aural recognition and writing of intervals and short, simple melodies. Also including rhythm, memory and improvisational drills.
Prerequisites: CONSVTY 329.
CONSVTY 319 Opera Role Performance Credits: 2
Preparation, rehearsal and performance of a role in an opera production at UMKC. This course may count toward the 2 semester opera production requirement for the BM in Vocal Performance degree. Credit for non-performing duties such as assistant directing or assistant stage managing may be available with approval of the Vocal Studies faculty and the current Stage Director.
Prerequisites: Vocal Audition.

CONSVTY 325 Piano Pedagogy I Credits: 2
Instructional strategies for teaching the beginning piano student including methods, materials, repertoire, technique and the use of music technology. Various aspects of establishing and managing a piano studio will also be addressed.

CONSVTY 325A Piano Pedagogy - Supervised Teaching I Credit: 1
Supervised practicum designed to demonstrate lesson planning and activities for beginning students through the observation of experienced teachers and various supervised teaching experiences.
Co-requisites: CONSVTY 325.

CONSVTY 326 Piano Pedagogy II Credits: 2
Instructional strategies for teaching the intermediate and advanced piano student, including methods, materials, repertoire, technique, and the use of music technology.
Prerequisites: CONSVTY 325.

CONSVTY 326A Piano Pedagogy - Supervised Teaching II Credit: 1
Supervised practicum designed to demonstrate lesson planning and activities for students of various levels through observation of experienced teachers and various supervised teaching experiences.
Prerequisites: CONSVTY 325A.

CONSVTY 329 Advanced Ear Training Credits: 2
Study of atonal and highly chromatic tonal aural problems, complex rhythms, and recognition of instruments. May be repeated for credit.
Prerequisites: CONSVTY 242.

CONSVTY 331 Orchestration I Credits: 2
An introduction to the instruments of the symphony orchestra and rudiments of scoring. Classification of instruments and learning to write for all transposing instruments.
Prerequisites: CONSVTY 242.

CONSVTY 331A Orchestration I Credits: 3
An introduction to the instruments of the symphony orchestra and rudiments of scoring. Meets concurrently with CONSVTY 331; the third credit hour is required for music composition and music theory majors.
Prerequisites: CONSVTY 242.

CONSVTY 333 Advanced Composition Credits: 3
May be repeated for credit.
Prerequisites: CONSVTY 234.

CONSVTY 335 Electronic Music Composition Credits: 3
This course focuses on creating an original music composition in any style utilizing the full range of digital audio or MIDI hardware, software and techniques available to the student. In addition to weekly meetings arranged with the instructor, 5-8 hours per week of studio time is required. May be repeated for credit.
Prerequisites: CONSVTY 235 (or CONSVTY 236).

CONSVTY 341 Principles of Music Business Credits: 3
This Music Business course is in an online format and will provide an overview of the many different careers and business practices in the music industry. The course content will highlight the variables considered when creating, selling and marketing a variety of items in different mediums.

CONSVTY 342 This is Your Brain on Music Credits: 3
This is an introductory course on the connections among music, the brain, and learning. The course provides a basic understanding of the relationship between the brain, music, and human behavior in the physiological, motor, social, emotional, and cognitive domains.

CONSVTY 351 History of Music in Western Civilization I Credits: 3
A chronological study of music in Western civilization with emphasis on periods and styles from early times to the death of Bach. Outside listening required.
Conservatory (CONSVTY)

CONSVTY 351WI History of Music in Western Civilization I - Writing Intensive Credits: 3
George Santayana once reasoned that if you cannot remember the past, you are condemned to repeat it. If that is the case, then as music students you all must ask how the music of the past can inform and change the music you make and make you better musicians. This class examines selected works from Western musical history and explores the biographical, stylistic, and aesthetic issues they raise. It seeks to hone your analytical skills through knowledge of stylistic features while introducing you to musical debates that still rage today.

Prerequisites: ENGLISH 110, ENGLISH 225, RooWriter.

CONSVTY 352 History of Music in Western Civilization II Credits: 3
A chronological study of music in Western civilization from 1750 to the present. Outside listening required.

Prerequisites: CONSVTY 351.

CONSVTY 352WI History of Music in Western Civilization II - Writing Intensive Credits: 3
A chronological study of music in Western Civilization from 1750 to the present. Outside listening and writing projects required.

Prerequisites: RooWriter.

CONSVTY 353A History and Development of Jazz I Credits: 3
History of Jazz from its beginning through the present, using recordings, films and musical examples. Emphasis on the major historical trends in Jazz, including Early Jazz, Ragtime, Dixieland, Swing, Bebob, Cool Jazz, Hard Bop, Free Jazz, Jazz-Rock Fusion and modern developments. This course makes use of the Marr Sound Archive, and is appropriate for all students throughout the UMKC Campus.

CONSVTY 353WI History and Development of Jazz II (WI) Credits: 3
This course aims to contextualize jazz within the musical culture of the twentieth century. It is designed to develop the students understanding of jazz from a writing and research perspective. This course concentrates on the lives, bands, and works of people who have been instrumental in the development of the various jazz styles. In-depth analysis of major jazz figures including Louis Armstrong, Duke Ellington, Count Basie, Charlie Parker, Dizzy Gillespie, Thelonious Monk, Clifford Brown, Sonny Rollins, John Coltrane, Miles Davis, Wayne Shorter, and many others. This course is most appropriate for Jazz Studies majors, and other conservatory students with some jazz background and knowledge of the fundamentals of music. This course makes use of the Marr Sound Archive.

Prerequisites: CONSVTY 353A, RooWriter.

CONSVTY 357 Choral Literature Credits: 2
Includes listening and analysis as they relate to programming and educational issues in choral ensemble setting. May be repeated for credit.

Prerequisites: CONSVTY 380.

CONSVTY 358 Wind Band Literature and Lab Credits: 3
Designed for the student working with beginning and intermediate levels of wind/percussion instruments. Includes critical analysis and evaluation of literature selection as it relates to educational issues and programming in wind/percussion ensemble settings. Includes an off-campus course meeting with a community wind band rehearsal/performance setting providing opportunities realistic opportunities for observation and teaching.

Co-requisites: CONSVTY 381.

CONSVTY 359 String Literature Credits: 2
Includes listening and analysis as they relate to programming and educational issues in string ensemble settings. May be repeated for credit.

Prerequisites: CONSVTY 381.

CONSVTY 361 Piano Literature I Credits: 3
A survey of study through analysis, reading, listening and performance of literature for stringed keyboard instruments from the Renaissance period to 1850. Special attention given to the development of instruments, forms, techniques, performance practices and idiomatic styles.

CONSVTY 362 Piano Literature II Credits: 3
A study through analysis, reading, listening, and performance of piano repertoire from 1850-present day. Special attention given to the development of instruments, forms, techniques, performance practices and idiomatic styles.

CONSVTY 363 Music Therapy in Wellness and Intergenerational Settings Credits: 3
This course provides students with foundational information pertaining to the music therapy profession. Course topics include the history of music therapy, populations that music therapists serve and an introduction to the use of music in therapeutic settings.

Prerequisites: Music Therapy Student.

CONSVTY 364 Yeah, Yeah, Yeah: The Cultural and Musical Impact of the Beatles Credits: 3
This course will explore the career and music of the Beatles by examining their impact on popular culture in Britain and the United States. Students will learn about popular song forms, recording techniques, and lyric writing and analysis. They will also employ video and audio media for projects, and engage with readings that approach the Beatles both historically and culturally.
CONSVTY 366 Clinical Foundations II Credits: 3
This course provides the second-semester clinical student continued practice of direct services, procedures, and documentation of the music therapy
treatment process (assessment, setting goals and objectives, treatment plan, interventions, data collection, documentation, and evaluation). Building
upon competencies learned in CONSVTY 395 Clinical Foundations, students will experience practice and supervision within the context of community-
dwelling older adult populations.
Prerequisites: CONSVTY 395, Music Therapy Student.

Co-requisites: CONSVTY 369.

CONSVTY 367 Music Therapy Capstone Credit: 1
This seminar course assists students in creating a research or clinical-based capstone project.
Prerequisites: CONSVTY 435, Music Therapy Student.

CONSVTY 368 Orchestral Literature for Trumpet Credit: 1
Intended to introduce students to the standard repertoire for orchestral trumpet; class meets once weekly for an hour. Students will be expected to
prepare and play approximately a dozen works per semester, rotating parts in a full trumpet section.

CONSVTY 369 Clinical Skills Lab Credit: 1
This course provides students with development, practice, and mastery of clinical music therapy skills. Course topics include, clinical musicianship,
repertoire development, and group leadership skills.

CONSVTY 370 Choral/Vocal Techniques Credits: 2
Laboratory applications of vocal pedagogy, ensemble rehearsal technique, literature selection, and performance practice. Students will participate in
singing and observation activities in a large ensemble setting with an emphasis on critical analysis of technical and pedagogical issues.
Prerequisites: CONSVTY 380.

CONSVTY 373E Instrumental Techniques Percussion Credit: 1
CONSVTY 373G Instrumental Techniques Guitar Credit: 1
CONSVTY 373N Survey Of Wind And Percussion Instruments Credit: 1
An overview of basic wind and percussion instruments used in public school settings. Includes embouchre formation, hand position, sound
production, and pedagogical issues encountered in beginning situations.
CONSVTY 373P Survey Of String Instruments Credit: 1
An overview of basic string instruments used in public school settings. Includes hand position, bowing, sound production, and pedagogical issues
encountered in beginning situations.

CONSVTY 376 Collaborative Piano I Credit: 1
Study of collaborative techniques and vocal literature.

CONSVTY 377 Collaborative Piano II Credit: 1
Continuation of CONSVTY 376.
Prerequisites: CONSVTY 376.

CONSVTY 378 Instrumental Ensemble Rehearsal Techniques & Lab Credits: 2
Laboratory applications of large instrumental ensemble (strings, winds, percussion) pedagogy, ensemble rehearsal technique, and performance
practice. Students will participate in playing, observation, rehearsal activities in a large ensemble setting with an emphasis on critical analysis of
technical pedagogical issues and ensemble performance preparation. Includes an off-campus course meeting.
Prerequisites: CONSVTY 358, CONSVTY 381 and large ensemble requirement.

Co-requisites: CONSVTY 383.

CONSVTY 378L Instrumental Ensemble Rehearsal Lab Credit: 1
Laboratory applications of wind/percussion pedagogy, ensemble rehearsal technique, literature selection, and performance practice. Students will
participate in playing, observation, and rehearsal activities in a large ensemble setting with an emphasis on critical analysis of technical pedagogical
issues and ensemble performance preparation. This course may meet off-campus.
Prerequisites: CONSVTY 358, CONSVTY 381, large ensemble requirement.

Co-requisites: CONSVTY 378, CONSVTY 383.

CONSVTY 380 Basic Conducting - Choral Credits: 2
A study of the basic techniques of all rhythms, patterns, subdivision of beats, dynamics, starting, stopping, and giving cues through conducting in
class. Elementary study of the score as to form and harmonic content will be discussed.
Prerequisites: CONSVTY 242.
CONSVTY 381 Basic Conducting - Instrumental Credits: 2
A study of the basic techniques of all rhythms, patterns, subdivision of beats, dynamics, starting, stopping, and giving cues through conducting in class. Elementary study of the score as to form and harmonic intent will be discussed.
Prerequisites: CONSVTY 242.

CONSVTY 382 Choral Conducting Credits: 2
A study of choral techniques including voice tryouts, placement, attack, release, blend, vocal development, diction, and rehearsal techniques through actual experience of conducting in class.
Prerequisites: CONSVTY 380.
Co-requisites: CONSVTY 387.

CONSVTY 383 Instrumental Conducting Credits: 2
A study of instrumental conducting techniques through actual conducting situations in instrumental groups. Primary objective will be the study of instrumental rehearsal techniques.
Prerequisites: CONSVTY 381.
Co-requisites: CONSVTY 386.

CONSVTY 385 Elementary Music Methods Credits: 3
Basic principles of curriculum planning for music education, investigation of current methods and approaches, and practical teaching experience in laboratory setting. For music majors and non-majors who have extensive musical backgrounds.
Prerequisites: CONSVTY 242, CONSVTY 411C.
Co-requisites: CONSVTY 411C.

CONSVTY 386 Secondary Music Methods - Instrumental Credits: 2
The organization, scheduling and feeder-system techniques of beginning band and orchestral programs through high-school level instruction. Areas of study will include curriculum, pedagogical techniques, library facilities, bidding procedures, basic instrument techniques.
Co-requisites: CONSVTY 383, CONSVTY 411B.

CONSVTY 387 Secondary Music Methods - Choral Credits: 2
The organization of junior and senior high school choral classes to include methods, materials and program building.
Co-requisites: CONSVTY 382, CONSVTY 411B.

CONSVTY 390 Analysis Credits: 3
Analysis offers students the opportunity to learn and apply multiple analytical techniques to complete movements and larger pieces of music by focusing on the study of pitch, rhythm, form, aesthetics, and issues of performance.
Prerequisites: CONSVTY 242.

CONSVTY 395 Clinical Foundations Credits: 3
This course provides the first-year clinical student practice of direct services, procedures, and documentation of the music therapy treatment process (assessment, setting goals and objectives, treatment plan, interventions, data collection, and evaluation). Students will participate in supervision and clinical experiences within the context of community-dwelling older adult populations.
Co-requisites: CONSVTY 369.

CONSVTY 399A Omni Ensemble (A) Credit: 1
Omni ensemble focuses on the fundamental principles of playing violin, viola, cello, and bass effectively within an ensemble setting. The curriculum is centered on the tenets of fine musicianship, including expressivity, characteristic tone, precise intonation, and healthy posture. The Omni ensemble provides instruction and group playing experience to all members of the UMKC community who demonstrate basic proficiency on a string instrument, and to Conservatory of Music and Dance students studying a secondary string instrument.
Prerequisites: Permission from the instructor.

CONSVTY 399B Omni Ensemble (B) Credit: 1
Omni ensemble focuses on the fundamental principles of playing violin, viola, cello, and bass effectively within an ensemble setting, and this course is designed to refine students' performance skills on a secondary string instrument and teaching skills through planning and leading rehearsal segments. The central goals of the course are to: refine skills needed to teach effectively in a string ensemble setting; recognize strengths and weaknesses as a string player and teacher of string players; and implement strategies to continue to improve teaching.
Prerequisites: Successful completion or concurrent enrollment in CONSVTY 381 Instrumental Conducting and permission of the instructor.
CONSVTY 399C Omni Ensemble (C) Credits: 2
Omni ensemble focuses on the fundamental principles of playing violin, viola, cello, and bass effectively within an ensemble setting. The curriculum is centered on the tenets of fine musicianship, including expressivity, characteristic tone, precise intonation, and healthy posture. The central goals of the course are recognition of strengths and weaknesses as a string player; implementation of strategies to improve performance through daily practice; and refinement of expressivity, tone, intonation, and posture on a primary string instrument.

Prerequisites: Permission of the instructor.

CONSVTY 404 Jazz Improvisation IV Credits: 2
This class is a continuation of Jazz Improvisation III. This course features in-depth analyses of the blues and free improvisation focusing on rhythm changes and bi-tonal/polytonal chords. Course includes an in-depth analysis of styles from Dixieland to contemporary jazz. A strong emphasis is places on solo construction and development of individual styles.

Prerequisites: CONSVTY 304.

CONSVTY 405 Philosophical and Pragmatic Foundations of Music Education Credits: 3
This course experience guides students in developing philosophical and social/historical frameworks along with practical skills to assist them in addressing varied opportunities and challenges as a music educator in contemporary American schools.

Prerequisites: Approval of instructor.

Co-requisites: CONSVTY 411A.

CONSVTY 407 Audio Intern Program Credits: 1-3
Practical recording experience interning with Conservatory recording and music production labs with one lecture weekly.

CONSVTY 408 Music in Therapy: Adults Credits: 3
Lecture and clinical demonstration of theory and practice of music therapy with adult clients.

Co-requisites: CONSVTY 369.

CONSVTY 409 Music in Therapy: Children Credits: 3
Lecture and clinical demonstrations of theory and practice of music therapy with children.

Co-requisites: CONSVTY 369.

CONSVTY 410 Internship Credit: 1
A minimum of 900 hours of supervised clinical experience at a Rostered site approved by the American Music Therapy Association or an Affiliate site approved by UMKC Conservatory Music Therapy faculty, to be taken after all other coursework for the music therapy degree, excepting any advanced coursework, is completed.

CONSVTY 411A Field Experience in Music Credit: 1
To introduce music students to a critical examination of the complex nature of teaching, learning, children, and the music classroom/ensemble setting. Students will be expected to spend 30 hours observing, participating, planning and teaching in an assigned music classroom environment during the semester.

Co-requisites: CONSVTY 405.

CONSVTY 411B Field Experience in Music Credit: 1
To introduce music students to secondary school settings and further develop observation, planning and teaching skills. Students will be expected to spend 30 hours in a middle/ junior high school music classroom and 30 hours in a high school music classroom for a total of 60 hours during the semester.

Prerequisites: CONSVTY 411A.

Co-requisites: CONSVTY 386 (or CONSVTY 387).

CONSVTY 411C Field Experience in Music Credit: 1
To introduce music students to elementary school music settings and continue to refine observation, planning and teaching skills in secondary school music settings. Students will be expected to spend 30 hours in an elementary school music classroom and 30 hours in either a middle school/junior high or high school music classroom.

Prerequisites: CONSVTY 411B.

Co-requisites: CONSVTY 385.

CONSVTY 412A Student Teaching Music in Elementary School Credits: 4-12
Observation, planning and teaching in an elementary music classroom setting. Students will be expected to spend a minimum of seven weeks teaching full-time under supervision.

Prerequisites: CONSVTY 411C.
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Conservatory (CONSVTY) 412B Student Teaching Music in Secondary School Credits: 4-12
Observation, planning and teaching in a middle school/junior high or high school music classroom setting. Students will be expected to spend a minimum of seven weeks teaching full-time under supervision.
Prerequisites: CONSVTY 411C.

Conservatory (CONSVTY) 417 Opera Workshop Credit: 1
Introduction to opera and opera performance techniques. Class will include performance of opera scenes.

Conservatory (CONSVTY) 417E Scene Study Credits: 2
Preparation, rehearsal and performance of scenes from opera, operetta and music theatre. Scenes will be determined and assigned based on student's needs and development. One-act operas may also occasionally be produced in this class.

Conservatory (CONSVTY) 417F Opera Role Preparation and Audition Techniques Credit: 1
Students will work on specific audition techniques for the operatic solo singer, which may include dramatic interpretation of repertoire, stage movement, resume building, and other aspects to assist the performer in the audition process.
Prerequisites: CONSVTY 417, Undergraduate Conservatory Student.

Conservatory (CONSVTY) 421A Music Theory Review For Graduate Students Credits: 1-3
An intensive review with emphasis placed on analysis.

Conservatory (CONSVTY) 421B Aural Skills Review for Graduate Students Credits: 1-3
An intensive review of ear training and sight singing.

Conservatory (CONSVTY) 422A Music History Review (early) Credits: 1-3
Graduate-level review of music in Western civilization from antiquity to 1750. Outside listening is required.

Conservatory (CONSVTY) 422B Music History Review (Late) Credits: 1-3
Graduate-level review of music in Western civilization from 1750 to the present. Outside listening is required.

Conservatory (CONSVTY) 422C Music History Review Credits: 1-3
Graduate-level review of music in Western civilization from antiquity to the present. Outside listening is required.

Conservatory (CONSVTY) 423 Business Jazz And Commercial Music Credits: 3
An introduction to the various elements of the music industry, including production, marketing, unions, contracts, broadcasting, licensing agreements and copyrights.

Conservatory (CONSVTY) 424 Acoustics Credits: 3
Study of the propagation of sound, the psychology and physiology of hearing, the acoustics of instruments, and of rooms, and tuning systems.
Available for graduate credit.

Conservatory (CONSVTY) 425A Arranging for Choral Groups Credits: 2
Practice in transcribing vocal music of the current pop idiom. Analysis and writing in contemporary harmonic idioms. Stylistic analysis of solo and choral writing in operettas and musical plays. Scoring for mixed voices, men's voices, and women's voices.
Prerequisites: CONSVTY 242.

Conservatory (CONSVTY) 425B Arranging Instrumental Credits: 2
Arranging Instrumental.
Prerequisites: CONSVTY 242.

Conservatory (CONSVTY) 426B Jazz Arranging for Small Ensembles Credits: 2
This course will teach the art of Calligraphy as well as the techniques of arranging and orchestration for small jazz ensembles for up to five horns. The course will also include an in-depth study of basic voicings, instrumental sonorities, and some extended forms using intensive listening and score study. UMKC combos, or top Kansas City professionals, will perform final assignments.
Prerequisites: CONSVTY 311.

Conservatory (CONSVTY) 426C Jazz Arranging for Big Bands Credits: 2
This course is a continuation of Jazz Arranging for small ensembles. It will cover the basics of arranging and orchestration techniques for big bands. It includes an in-depth study of basic voicing and instrumental sonorities using intensive listening and score study. The students will have a chance to hear their final arrangements performed at the end of the semester by the Concert Jazz Band.
Prerequisites: CONSVTY 426B.

Conservatory (CONSVTY) 427 18th-Century Counterpoint Credits: 2
Analysis and writing in 18th century style and forms including canon, invention and fugue.
Prerequisites: CONSVTY 242.

Conservatory (CONSVTY) 428 Introduction to Post-Tonal Theory Credits: 3
Analysis and writing in contemporary styles.
Prerequisites: CONSVTY 242.
CONSVTY 431 Orchestration II Credits: 2
A detailed study of the scores of major orchestral and wind ensemble works, plus the application of orchestrational concepts in the creation or orchestration of an original piece of music.
Prerequisites: CONSVTY 331A.

CONSVTY 433 Composition Recital Credits: 3
Preparation and performance of the student's original compositions at one or more concerts sponsored by UMKC Conservatory of Music, with a total of 50 to 60 minutes performance time.
Prerequisites: CONSVTY 333.

CONSVTY 435 Psychological Foundations of Music Credits: 3
The study of the psychological aspects of music including perception, cognition, affect, and preference. An introduction measurement and experimental research including statistical techniques.

CONSVTY 437 Computer Literacy for Musicians Credit: 1
Computing skills for the music teacher. Study of the computer as a tool for music majors who will teach in public school music classes, direct ensembles, or teach at the college or university level. Hands-on practice with file creation and editing, graphics and character set generation, data analysis, preparation of computer based instruction, and data retrieval. For upper level undergraduate and graduate students.

CONSVTY 438 Creative Collaboration: Ideas and Strategies Credits: 3
Creative Collaboration: Ideas and Strategies investigates the history of collaboration in the arts since the turn of the 20th century. While case studies are drawn from the arts, students from any discipline and field will explore creative collaboration together. The goal of the class is to create a large-scale work in multidiscipline groups. Groups will vary depending on enrollments, but thinking outside the box and full participation regardless of individual discipline is required. course is open to students in any field and discipline.

CONSVTY 440 Jazz Keyboard Techniques I Credits: 2
This course is designed for instrumentalists and music majors developing skills needed to harmonize tunes at the piano and effectively comp in the mainstream jazz group. It is meant to give the student an organized approach for exploring any harmonic style.

CONSVTY 441 Jazz Keyboard Techniques II Credits: 2
Jazz Keyboard Techniques II

CONSVTY 450 Music and Film Credits: 3
Designed for the general university student, this course will survey the use of music in cinema. It will include sections on music, technology, the film medium and the various ways in which music adds to the cinematic experience. Music majors may enroll for elective credit.

CONSVTY 454 Advanced Seminar in Music Theory Credits: 3
Advanced Seminar in Music Theory offers a rotating option of topics in advanced music theory drawn from the research interests and expertise of the music theory faculty.
Prerequisites: CONSVTY 390.

CONSVTY 457 Vocal Literature I Credits: 2
Literature for the solo voice. A course covering the literature from 1600 to present times, illustrated by recordings and members of the class and the instructor. Required for B.M. voice majors.

CONSVTY 458 Vocal Literature II Credits: 2
A continuation of CONSVTY 457.

CONSVTY 460 Organ Literature I Credits: 2
A survey of organ music from the 15th century through 1750.

CONSVTY 469 Organ Literature II Credits: 2
A survey of organ music from 1750 to the present.

CONSVTY 471 Jazz/Commercial Music Pedagogy Credits: 2
This course is designed to develop skills in the teaching of jazz and commercial music. Students will be exposed to a variety of materials, techniques and philosophies and trained in various techniques of rehearsing and conducting jazz ensembles, including the study of scores and recordings of different styles and rehearsal of the Conservatory's jazz ensembles. Includes an emphasis on structuring jazz and studio music curriculum at the College level.
Prerequisites: CONSVTY 381.

CONSVTY 490 Independent Study Credits: 1-3
Intensive reading, research projects, creative work, or special performance in the student’s major field, selected by the student in consultation with the appropriate faculty.
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CONSVTY 491B Pedagogical Practices I Voice Credits: 2
CONSVTY 491C Pedagogical Practices I Organ Credits: 2
CONSVTY 491D Pedagogical Practices I Strings Credits: 2
CONSVTY 491K Pedagogy of Music Theory Credits: 3
Pedagogy of Music Theory
CONSVTY 492B Pedagogical Practices II Voice Credits: 2
A laboratory experience that includes teaching applied voice in preparation for an end of semester concert experience. The course content includes introduction to skill sets required for teaching applied voice and applied voice studio budget and organization. 
Prerequisites: CONSVTY 491B.

CONSVTY 492D Pedagogical Practices II Strings Credit: 1
CONSVTY 494 Performance Styles Credits: 2
A practical approach to the music of the Medieval, Renaissance, Baroque, Early Classical and Contemporary eras through performance. May be repeated for credit. Audition required.

CONSVTY 497 Seminar-Workshop in Music Credits: 1-4
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists.
CONSVTY 497AI Seminar-Workshop in Music Credits: 1-4
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists.
CONSVTY 497AM American Music Company Choral Reading Sessions Credits: 1-4
CONSVTY 497AR Seminar-Workshop In Music Credits: 1-4
CONSVTY 497CP Seminar - Workshop in Music Credits: 1-4
CONSVTY 497CT Seminar Workshop in Music Credits: 1-4
Seminar Workshop in Music
CONSVTY 497ECM Seminar-Workshop In Music Credits: 1-4
CONSVTY 497GC Seminar-Workshop In Music Credits: 1-4
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists.
CONSVTY 497GTR Seminar-Workshop In Music Credits: 1-4
Seminar-Workshop In Music
CONSVTY 497HB Seminar Workshop in Music Credits: 1-4
CONSVTY 497HDJ Seminar-Workshop In Music Credits: 1-4
Seminar-Workshop In Music
CONSVTY 497HT Seminar Workshop in Music Credits: 1-4
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists.
CONSVTY 497IN Seminar-Workshop in Music Credits: 1-4
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists.
CONSVTY 497JDT Seminar Workshop in Music Credits: 1-4
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists.
CONSVTY 497JI Seminar-Workshop In Music Credits: 1-4
CONSVTY 497JIM Seminar-Workshop In Music Credits: 1-4
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists.
CONSVTY 497JKI Seminar-Workshop In Music Credits: 1-4
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists.
CONSVTY 497JP Seminar Workshop in Music Credits: 1-4
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists.
CONSVTY 497JPP Seminar-Workshop In Music Credits: 1-4
Seminar-Workshop In Music
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CONSVTY 497MU Seminar Workshop in Music Credits: 1-4
CONSVTY 497NG Seminar-Workshop in Music Credits: 1-4
CONSVTY 497OB Seminar-Workshop in Music Credits: 1-4
CONSVTY 497OL Seminar-Workshop in Music Credits: 1-4
CONSVTY 497PL Seminar Workshop In Music Credits: 1-4
CONSVTY 497SI Seminar-Workshop In Music Credits: 1-4
CONSVTY 497ST Seminar Workshop in Music Credits: 1-4

Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists.

CONSVTY 498 Research Problems Credits: 2
Individual study under the direction of a faculty adviser, leading to the writing of a formal paper. A public, non-graded presentation of the paper with performance examples is required.