202A. Leadership: Land Navigation/Tactical **Operations**

Fall. 1(1-1)

R: Not open to students with credit in MS 202B. Military topographic and special maps: intersection, resection, modified resection, and polar coordinates. Tactical operation overlays. Preview of small unit leader's role in the Army. Lab: use of lensatic compass.

202B. Leadership: Land Navigation/Tactical Operations

Spring. 1(1-2)

R: Not open to students with credit in MS 202A. Military topographic and special maps: intersection, resection, modified resection, and polar coordinates. Tactical operation overlays. Preview of small unit leader's role in the Army. Lab: use of lensatic compass.

Leadership: Command and Control 301. Communication

Fall, Spring. 3(3-2)

P: MS 202.

Wire and radio communications for tactical operations. Encryption/decryption, use of codes, and electronic warfare. Theories and models of behavioral sciences for leadership. Lab emphasizes communication skills.

Leadership: Small Unit Tactics

Fall, Spring. 3(3-2)

P: MS 301.

Military topographic and special maps: interesection, resection, modified resection, and polar coordinates. Tactical operation overlays. Preview of small unit leader's role in the Army. Lab: use of lensatic compass.

Leadership: Management 401.

Fall, Spring. 3(2-3)

P: MS 302.

Army training personnel administration and logistics systems, and the leader's role as a trainer and effective manager. Oral and written communication. Leadership assessment and development. Lab: practical experience in unit administ ration.

Military Law, Ethics and 402. Professionalism

Spring. 3(2-3)

P: MS 401.

Military legal system. Application of military justice. Fundamental values and principles of conduct in the profession of arms. Development of subordinates and the role of noncommissioned officers. Lab includes leadership developmen t assessment.

Independent Study in Military Science

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.

R: Open only to juniors and seniors. Approval of department.

Individual research in areas related to military science.

MUSIC MUS

School of Music College of Arts and Letters

Chamber Music

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance of broad range of chamber music literature.

Marching Band

Fall. 1 credit. A student may earn a maximum of 6 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance of broad range of marching band literature at football games.

115. Spartan Brass

Spring. 1 credit. A student may earn a maximum of 6 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance of broad range of brass literature at basketball and hockey games.

Campus Band

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. Rehearsal and performance of broad range of band literature chosen from baroque period to the present.

117. Concert Band

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance of broad range of wind literature from various historical periods and styles.

Wind Symphony

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance of broad range of wind literature from various periods and styles.

Symphony Band

Fall, Spring. 1 credit. A student may earn a $maximum\ of\ 10\ credits\ in\ all\ enrollments\ for\ this\ course.$ R: Audition required

Rehearsal and performance of broad range of wind and percussion literature.

Symphony Orchestra

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance of symphonic and operatic repertoire.

Chamber Orchestra 121.

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance of representative chamber works of baroque, classic and contemporary composers.

Campus Orchestra

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. Rehearsal and performance of symphonic and concert literature written for large orchestra, conducted by staff conductors under the supervision of faculty.

Collegiate Choir

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance of representative literature for mixed choir with emphasis on renaissance, baroque, classical, romantic, and contemporary composers.

Choral Union 124.

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

University and community chorus. One evening rehearsal per week, culminating in performance of a major work with orchestra.

Glee Club, Men and Women 125.

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. Rehearsal and performance of broad range of choral literature chosen from medieval period to the present.

State Singers

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

Mixed choir performing music from all periods.

127. University Chorale

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

Mixed chamber choir for experienced singers performing representative literature from all periods.

Percussion Ensemble

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance of representative works for percussion and mallet ensembles.

Jazz Band

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance in large jazz ensemble. Literature from classic bands of Ellington and Basie to contemporary composers.

131. Jazz Combo

Fall, Spring. 1(1-2) A student may earn a maximum of 10 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance in small jazz ensembles. Literature from all historical periods of jazz.

Class Instruction in Piano I

Fall, Spring. 1(1-1)

R: Open only to students in School of Music. Use of the piano as a teaching tool.

Class Instruction in Piano II

Spring. 1(1-1)

P: MUS 141. R: Open only to students in School of Music.

Use of the piano as a teaching tool.

Class Instruction in Voice I: Music 143. Majors

Fall. 1(1-1)

C: MUS 151 concurrently. R: Open only to students in School of Music with an emphasis in voice. English lyric diction. Rules or pronunciation. Perform-

ance of English language songs in class.

144. Class Instruction in Voice II: Music Majors

Spring. 1(1-1)

P: MUS 143. C: MUS 151 concurrently. R: Open only to students in School of Music with an emphasis in voice. Italian lyric diction. Rules of pronunciation. Performance of Italian language songs in class.

Class Instruction in Voice I

Fall. 1(1-1)

R: Not open to students in School of Music with an emphasis in voice.

Rules of pronunciation. Vocal techniques.

Class Instruction in Voice II 146.

Spring. 1(1-1) P: MUS 145. R: Not open to students in School of Music with an emphasis in voice.

Vocal techniques and exploration of vocal literature.

Class Instruction in Elementary Piano I Fall, Spring. 2(2-1)

R: Not open to students in School of Music.

Basic notation, performance, improvisation, and transposition. Repertoire includes folksongs, simple classics,

148. Class Instruction in Elementary Piano

Fall, Spring. 2(2-1)

P: MUS 147. R: Not open to students in School of Music. Note reading and performance, folksongs, easy ragtime, jazz, and shorter classics.

149. Keyboard Skills

Fall, Spring. 1 credit. A student may earn a maximum of 4 credits in all enrollments for this course. R: Open only to students in School of Music.

Sight-reading, transposing, figured bass, keyboard harmony, and accompanying instrumentalists and vocalists.

150A. Piane

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to students in School of Music. Audition required.

Private instruction in piano.

150B. Pipe Organ

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Open only to students in School of Music. Audition required.

Private instruction in pipe organ.

150C. Harp

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Open only to students in School of Music. Audition required.

Private instruction in harp.

150J. Piano: Jazz

Fall, Spring. 1 to 2 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

R: Audition required.

Private instruction in piano.

151. Voice

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

R: Open only to students in School of Music and students in Music teaching minor. Audition required. Private instruction in voice.

151J. Voice: Jazz

Fall, Spring. 1 to 2 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

R: Audition required.

Private instruction in voice.

152A. Violin

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Audition required.

Private instruction in violin.

152B. Viola

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this

 $R: Audition \ required.$

Private instruction in viola.

152C. Cella

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Audition required.

Private instruction in cello.

152D. Double Bass

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R. Audition required.

Private instruction in double bass.

152J. Stringed Instruments: Jazz

Fall, Spring. 1 to 2 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

R: Audition required.

Private instruction in a stringed instrument.

153A. Flute

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Audition required.

Private instruction in flute.

153B. Oboe

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this

R: Audition required.

Private instruction in oboe.

153C. Clarines

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Audition required.

Private instruction in clarinet.

153D. Saxophone

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course

R: Audition required.

Private instruction in saxophone.

153E. Bassoon

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Audition required.

Private instruction in bassoon.

153J. Woodwind Instruments: Jazz

Fall, Spring. 1 to 2 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

R: Audition required.

Private instruction in a woodwind instrument.

154A. Trumpet

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Audition required.

Private instruction in trumpet.

154B. Horn

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Audition required.

Private instruction in horn.

154C. Trombone

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Audition required.

Private instruction in trombone.

154D. Euphonium

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Audition required.

Private instruction in euphonium.

154E. Tuba

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Audition required.

Private instruction in tuba.

154J. Brass Instruments: Jazz

Fall, Spring. 1 to 2 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

R: Audition required.

Private instruction in a brass instrument.

155. Percussion Instruments

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 16 credits in all enrollments for this course.

R: Audition required.

Private instruction in percussion instruments.

155J. Percussion Instruments: Jazz

Fall, Spring. 1 to 2 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

R: Audition required.

Private instruction in percussion instruments.

160. Class Instruction in Guitar

Fall. 1(1-0)

R: Open only to students in Music Therapy and to other students in School of Music with a teacher certification option.

Chording, strumming and finger picking techniques. Accompanying and song leading with guitar. Reading of notation and tablature. Classical and popular styles.

161. Class Instruction in Stringed Instruments

Fall. 2(2-2)

R: Open only to students in Music Therapy and to other students in School of Music with a teacher certification online.

Techniques for playing and teaching stringed instruments.

162. Class Instruction in Flute and Saxophone

Spring. 1 credit.

R: Open only to students in School of Music with a teacher certification option.

Techniques for playing and teaching flute and saxophone.

163. Class Instruction in Clarinet

Fall. 1 credit.

R: Open only to students in School of Music with a teacher certification option.

Techniques for playing and teaching clarinet.

164. Class Instruction in Double Reed Instruments

Spring. 1 credit.

R: Open only to students in School of Music with a teacher certification option.

Techniques for playing and teaching oboe and bassoon.

165. Class Instruction in High Brass Instruments

Fall. 1 credit.

R: Open only to students in School of Music with a teacher certification option.

Techniques for playing and teaching trumpet and horn.

166. Class Instruction in Low Brass Instruments

Spring. 1 credit.

R: Open only to students in School of Music with a teacher certification option.

Techniques for playing and teaching trombone, euphonium, and tuba.

167. Class Instruction in Percussion Instruments

Fall. 2(1-2)

R: Open only to students in Music Therapy and to other students in School of Music with a teacher certification option.

 \tilde{T} echniques for playing and teaching percussion instruments.

175. Understanding Music

Fall, Spring. 3(3-0)

An active and creative approach to understanding the elements of music in a wide variety of music styles. No prior musical skills required.

Fundamentals of Music

Fall. 2(2-1)

Conceptual and notational presentation of the basic components of musical structure. No previous familiarity with music is assumed.

181. Musicianship I

Spring. 3(3-1)

P: MUS 180.

Hierarchical musical structure through species counterpoint and figured bass. Linear and vertical aspects of tonality.

Ear Training and Sight Singing I

Fall. 1(1-1)

Dictation, melody singing using solfege (movable do) syllables, intervals to octave, error detection, quarter note values in rhythm, part singing.

Ear Training and Sight Singing II 183. Spring. 1(1-1)

P: MUS 182.

Dictation, singing melodies in major and minor keys. Simple modulation, chromatic alteration, error detection, rhythms, triads and components, part singing.

Introduction to Music Theory

Fall. 1(1-1)

R: Open only to graduate students in School of Music. Elements of music theory, with emphasis on voice-leading and harmonic analysis in diatonic and chromatic music.

SA: MUS 800

201. Aural Skills

Spring. 1(1-1)

R: Open only to graduate students in School of Music. Ear training in the areas of melody, harmony, and rhythm. Sight singing using the solfege system. Computer-aided drill programs.

SA: MUS 801

History of Western Music to 1750 211.

Fall. 3(3-0)

P: MUS 181. R: Not open to freshmen. Open only to students in School of Music.

Music from ancient Greece through the Baroque. Literature and theory of plainsong, instrumental and vocal traditions, and vocal polyphony before 1750 in sociopolitical context.

History of Western Music Since 1750

Spring. 3(3-0)

P: MUS 211. R: Not open to freshmen. Open only to students in School of Music.

Literature of the cultivated tradition and its theory in sociopolitical context.

230. Beginning Jazz Improvisation I Fall. 2(2-0)

P: MUS 181. R: Not open to freshmen.

Keys, modes, chord progressions as improvisational tools. Blues form in basic keys. Aural transcription of recorded solos.

Beginning Jazz Improvisation II Spring. 2(2-0) 231.

P: MUS 230. R: Not open to freshmen.

Performance of complete tunes using II,-V-I progressions in all major and minor keys. Transcriptions of recorded jazz solos.

Advanced Class Instruction in Piano I Fall. 1(1-1)

P: MUS 142. R: Not open to freshmen. Open only to students in School of Music with an emphasis in voice. Use of the piano as a teaching tool in school music.

242. Advanced Class Instruction in Piano II

Spring. 1(1-1)
P: MUS 241. R: Not open to freshmen. Open only to students in School of Music with an emphasis in voice. Use of the piano as a teaching tool in school music.

German Diction for Singers

Fall. 1(1-1)

P: MUS 151. R: Open only to students in School of Music.

German lyric diction. Rules of pronunciation. Performance of German art songs in class.

French Diction for Singers 249.

Spring. 1(1-1)

P: MUS 151. R: Open only to students in School of Music.

French lyric diction. Rules of pronunciation. Performance of French art songs in class.

260. Introduction to School Music

Fall, Spring. 2(2-1)

R: Not open to freshmen. Open only to students in the School of Music with a teacher certification option and to students with a Music teaching minor.

Historical foundations, current trends, and teaching responsibilities in school music at all curricular levels.

Music Therapy: Foundations and Principles

Fall. 3(3-0)

R: Not open to freshmen.

History, philosophy and scope of the practice of music therapy. Use of music in treating people with special needs. Field trips required.

Music Therapy: Instrumental, Vocal and Movement Techniques

Spring. 3(3-0)

P: MUS 270. R: Not open to freshmen.

Creative and expressive techniques involving percussion instruments, autoharp, handchimes, song leading, creative movement, folk dance.

Musicianship II

Fall. 3(3-1)

P: MUS 181.

Techniques of diatonic modulation and soprano harmonization. Chromatic techniques.

281. Musicianship III

Spring. 3(3-1)

P. MUS 280.

Research base for formal categorization. Large-scale principles of musical organization. Chromatic substitution and chords derived from voice-leading.

Advanced Ear Training and Sight Singing I

Fall. 1(1-1)

P. MUS 183.

Dictation including recognition of triads, functions, cadences, seventh-chord harmonies, chord components. Two-and four-part dictation and singing.

283 Advanced Ear Training and Sight Singing II

Spring. 1(1-1)

P: MUS 282.

Recognition of harmonic functions in major keys, minor keys, and modulations. Dictation in two-and four-part textures including augmented-sixth chords and nonharmonic tones.

290. Independent Study

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this

R: Approval of school,

Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

330. Advanced Jazz Improvisation I

Fall 2(2-0)

P: MUS 231. R: Not open to freshmen and sophomores. Secondary dominants, borrowed chords, and tritone substitutions. Transcription of recorded jazz solos.

Advanced Jazz Improvisation II

Spring. 2(2-0)

P: MUS 330. R: Not open to freshmen and sophomores. Pentatonic scale relationships within II-V-I progressions. Aleatoric approaches to improvisation. Non-traditional chord progressions. Transcription of recorded jazz solos.

335. Ensemble Conducting I

Fall. 2(2-2)

P: MUS 181. R: Open only to students in the School of Music with a teacher certification option and to students with a Music teaching minor.

Introduction to conducting and rehearsal techniques.

Ensemble Conducting II: Instrumental Spring, 2(2-2)

P: MUS 335. R: Open only to students in the School of Music with a teacher certification option and to students with a Music teaching minor.

Advanced conducting and rehearsal techniques as applied to music literature from each of the stylistic periods.

SA: MUS 336

336B. Ensemble Conducting II: Choral

Spring. 2(2-2)

P. MUS 335 R. Open only to students in the School of Music with a teacher certification option and to students with a Music teaching minor.

Advanced conducting and rehearsal techniques as applied to music literature from each of the stylistic periods.

. SA: MUS 336

337. Conducting for Music Performance Majors

Fall, Spring. 1(1-1)

R: Open only to Music Performance majors.

Beat patterns, clefs, and transpositions of string, wind, and percussion instruments. Score reading and analysis. Rehearsal techniques.

339. Teaching School Music

Spring. 3(2-2)

P: MUS 260. R: Open only to students in the School of Music with a teacher certification option and to students with a Music teaching minor.

Techniques for developing instructional and management skills for teaching school music. On- and off-campus clinical experiences required.

340. Methods and Literature for Voice

Fall, 3(3-0)

P: Four semesters of MUS 151. R: Open only to majors in School of Music.

Methods of teaching voice. Literature for both private lessons and classrooms.

341. String Pedagogy

Spring. 2(2-1)

R: Open only to majors in School of Music.

Principles, techniques, and materials for teaching stringed instruments.

346. Keyboard Methods and Literature I

Fall. 2(2-0)

P: Four semesters of MUS 150A. R: Open only to majors in School of Music.

Beginning and intermediate methods and literature for teaching piano. Observation and teaching of beginning piano students.

347. Keyboard Methods and Literature II

Spring. 2(2-0)

P: MUS 346. R: Open only to majors in School of Music. Intermediate and advanced methods and literature for teaching piano. Observation and teaching of piano students.

348. Piano Accompanying

Fall, Spring. 1 credit. A student may earn a maximum of 8 credits in all enrollments for this course. P. MUS 149. R: Not open to freshmen. Open only to students in School of Music.

Accompaniment of instrumental and vocal soloists.

349. Piano Performance

Fall, Spring. 1 credit. A student may earn a maximum of 10 credits in all enrollments for this course. C: MUS 150A or MUS 350A concurrently. R: Open only to students in School of Music.

Critique and analysis of individual performances in a group setting.

350A.

Fall, Spring. 2 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

P: MUS 150A. R: Open only to majors in School of Music, approval of school.

Private instruction in piano.

350R. Pipe Organ

 $Fall, Spring.\ 1\ to\ 3\ credits.\ A\ student\ may\ earn$ a maximum of 18 credits in all enrollments for this course.

P: MUS 150B. R: Open only to majors in School of Music, approval of school.

Private instruction in pipe organ.

350C. Harp

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

P: MUS 150C. R: Open only to majors in School of Music, approval of school.

Private instruction in harp.

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this

P: MUS 151. R: Open only to majors in School of Music and to students in Music teaching minor, approval of school.

Private instruction in voice.

352A. Violin

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this

P: MUS 152A. R: Open only to majors in School of Music, approval of school.

Private instruction in violin.

352B. Viola

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course

P: MUS 152B. R: Open only to majors in School of Music, approval of school.

Private instruction in viola.

352C.

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this

P: MUS 152C. R: Open only to majors in School of Music, approval of school.

Private instruction in cello.

352D. Double Bass

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

P: MUS 152D. R: Open only to majors in School of Music, approval of school.

Private instruction in double bass.

353A. Flute

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

P: MUS 153A. R: Open only to majors in School of Music, approval of school. Private instruction in flute.

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

P: MUS 153B. R: Open only to majors in School of Music, approval of school. Private instruction in oboe.

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

P: MUS 153C. R: Open only to majors in School of Music, approval of school.

Private instruction in clarinet.

353D. Saxophone

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

P: MUS 153D. R: Open only to majors in School of Music, approval of school.

Private instruction in saxophone.

Bassoon

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

P: MUS 153E. R: Open only to majors in School of Music, approval of school.

Private instruction in bassoon.

Trumpet

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

P: MUS 154A. R: Open only to majors in School of Music, approval of school.

Private instruction in trumpet.

354B. Horn

 $Fall, Spring.\ 1\ to\ 4\ credits.\ A\ student\ may\ earn$ a maximum of 24 credits in all enrollments for this course

P: MUS 154B. R: Open only to majors in School of Music, approval of school.

Private instruction in horn.

Trombone

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this

P: MSU 154C. R: Open only to majors in School of Music, approval of school.

Private instruction in trombone.

354D. Euphonium

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this

P: MUS 154D. R: Open only to majors in School of Music, approval of school.

Private instruction in euphonium.

354E. Tuba

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this

P: MUS 154E. R: Open only to majors in School of Music, approval of school.

Private instruction in tuba.

355. Percussion

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

P: MUS 155. R: Open only to majors in School of Music, approval of school.

Private instruction in percussion.

Methods and Materials of Elementary Music I

Fall, Spring. 2(2-0)

R: Not open to freshmen and sophomores. Not open to students in the School of Music.

How children learn music from early childhood to grade

364. Methods and Materials of Elementary Music II

Spring. 2(2-0)

P: MUS 363. R: Not open to freshmen and sophomores. Not open to students in the School of Music. How children learn music in grades 4-6.

Music Therapy: Behavior Measurement and Assessment

Fall, 3(3-1)

P: MUS 270. R: Open only to Music Therapy majors. Observation and assessment of behavior. Principles of behavioral change. Design of treatment. Ethics and standards of clinical practice. Field trips required.

Music Therapy: Treatment Planning and Case Management

Spring. 3(3-1)

P: MUS 370. R: Open only to Music Therapy majors. Supervised clinical practice in music therapy. Goals and objectives of treatment. Design and evaluation of treatment programs. Field trips required.

Musical Styles and Forms (W) 3R0

Fall. 3(3-1)

P: MUS 281. R: Open only to majors in School of Music. Completion of Tier I writing requirement.

Form in pre-20th century Western music. Stylistic analysis of representative medieval, renaissance, baroque, and 18th and 19th century compositions.

20th Century Music Theory 381.

Spring. 3(3-1)

P. MUS 380

Western art music and jazz. Stylistic and formal analysis of representative compositions and jazz improvisations. Post-tonal theory. Jazz nomenclature and harmonic practice.

History of Oratorio

Spring of even-numbered years. 2(2-0) P: MUS 211. R: Open only to majors in School of Music. History and literature of oratorio since 1600.

Keyboard Literature to Mid-19th 413. Century

Fall of even-numbered years. 2(2-1) P: MUS 281. R: Open only to majors in School of Music. Keyboard styles and works of representative composers such as Bach, Couperin, Mozart, Haydn and Beethoven.

Keyboard Literature since the Mid-19th 414. Century

Spring of odd-numbered years. 2(2-1) P: MUS 413. R: Open only to majors in School of Music. Keyboard styles and works of representative composers such as Schumann, Chopin, Ives and Prokofiev.

415. Art Song Literature: German

Fall of even-numbered years. 2(2-1) P: MUS 181. R: Open only to majors in School of Music. Standard art song repertoire with emphasis on German Lieder. Performance of art songs in class.

416. Art Song Literature: European and American

Spring of odd-numbered years. 2(2-1)

P: MUS 181. R: Open only to majors in School of Music. Standard art song repertoire with emphasis on Italian, French, and twentieth century art songs. Performance of art songs in class.

420. Music of the 18th Century

Fall of even-numbered years, 2(2-0)

P: MUS 212. R: Not open to freshmen and sophomores. Open only to Music majors.

Late baroque and early classical traditions: styles, genres, forms, theories, aesthetics, performance practices, instruments and masterworks in sociopolitical context. Aural and score analysis of representative works.

421. 19th Century European-American Music Literature

Spring of odd-numbered years, 2(2-0)

P: MUS 212. R: Not open to freshmen and sophomores. Late classical and romantic period traditions: styles, genres, forms, theories, aesthetics, performance practice, instruments and masterworks in sociopolitical context. Aural and score analysis of representative works.

422. 20th Century European and American Music Literature

Spring of even-numbered years, 2(2-0)

P: MUS 212. R: Not open to freshmen and sophomores. Twentieth-century styles, genres, forms, theories, aesthetics, performance practices, instruments and masterworks in sociopolitical context. Aural and score analysis of representative works.

423. History of Opera

Fall of odd-numbered years, 2(2-0)

P: MUS 212. R: Open only to majors in School of Music. Musical, cultural, and social significance of opera since 1600.

425. Music of South Asia and Its Diaspora

Fall of odd-numbered years. 2(2-0)

R: Not open to freshmen and sophomores.

Music associated with the cultures of South Asian
India and Pakistan, and South Asian musical practices
in its Diaspora.

426. Music of West Africa

Spring of odd-numbered years. 2(2-0)

R: Not open to freshmen and sophomores.

Music associated with the cultures of West Africa.

427. Music of Asia, the Pacific, and the Near East

Fall. 2(2-0)

P: MUS 212. R: Open only to majors in School of Music. Music in the cultures of the Asian continent and Pacific islands. Techniques of ethnomusicology, listening and analysis.

428. Music of Africa, Europe, and the Americas

Spring. 2(2-0)

P: MUS 212. R: Open only to majors in School of Music. Music in the cultures of Africa, Europe, and the Americas with emphasis on folk and vernacular traditions. Techniques of ethnomusicology, listening and analysis.

429. Music of East and Southeast Asia

Fall of even-numbered years. 2(2-0)

R: Not open to freshmen and sophomores.

Music associated with the cultures of East and Southeast Asia.

430. Music of the Caribbean

Spring of even-numbered years. 2(2-0) R: Not open to freshmen and sophomores.

Music with the cultures of the Caribbean

432. Jazz Arranging I

Fall. 2(2-0)

P: MUS 281.

Jazz instrumental writing focusing on voicing concepts for standard jazz chord progressions, melody and counter-melody, and standard forms. Beginning orchestration techniques which emphasize form.

433. Jazz Arranging II

Spring. 2(2-0)

P: MUS 432.

Jazz instrumental writing focusing on orchestration and arranging concepts for large jazz ensembles. Voicing of chords within and across sections. Orchestration techniques which emphasize form.

435. Opera Theatre

Fall, Spring. 1 to 2 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

R: Audition required.

Rehearsal and performance of complete operas and operatic excerpts.

440. Electronic and Computer Music Literature

Fall. 3(3-0)

P: MUS 281. R: Not open to freshmen and sophomores. Music literature composed with tape recorders, synthesizers and computers.

441. Introduction to Computer Music

Fall. 3(3-0)

P: MUS 281. R: Not open to freshmen.

Digital synthesizers, samplers, and Musical Instrument Digital Interface. Computer sequencing and timbre editing software. Compositional techniques of computer music.

442. Independent Projects in Computer Music

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

P: MUS 441.

Independent composition or research in computer music. Assigned use of computer music studios.

448. Advanced Keyboard Methods and Literature I

Fall. 2(2-0)

P: MUS 347. R: Open only to majors in School of Music. Advanced piano literature for private lessons and class-rooms.

449. Advanced Keyboard Methods and Literature II

Spring. 2(2-0)

P: MUS 448. R: Open only to majors in School of Music. Advanced piano literature for private lessons and class-rooms.

457. Teaching Instrumental Music in the Elementary School

 $Fall.\ 3(2-2)$

P: MUS 339. R: Open only to seniors and graduate students in the School of Music and to seniors and graduate students with a Music teaching minor.

Techniques for developing instrumental music programs in grades 4-6. Topics include curriculum, pedagogy, materials, and program administration. Clinical experiences in schools required.

458. Teaching Instrumental Music in the Secondary School

Spring. 3(2-2)

P: MUS 339. R: Open only to seniors and graduate students in the School of Music and to seniors and graduate students with a Music teaching minor. Techniques for developing instrumental music programs in grades 7-12. Topics include curriculum, pedagogy, materials, and program administration. Clinical experiences in schools required.

460. Computers in School Music

Fall. 2(2-1)

R: Not open to freshmen and sophomores. Open only to students in the School of Music with a teacher certification option and to students with a Music teaching minor.

Techniques and principles of computer-assisted music instruction in school programs. Emphasis on appropriate software and hardware for teaching and management.

461. Marching Band Methods

Spring. 2(2-0)

R: Not open to freshman and sophomores. Open only to students in the School of Music with a teacher certification option and to students with a Music teaching minor.

Administration of school marching bands. Technical and philosophical aspects.

462. Suzuki Methods and Materials

Spring. 2(1-2)

R: Open only to majors in School of Music. Beginning levels of Suzuki violin pedagogy.

463. Methods and Materials of Elementary Music I

Fall, Spring. 2(2-0)

R: Not open to freshmen and sophomores. Not open to students in the School of Music.

How children learn music from early childhood to grade three.

464. Methods and Materials of Elementary Music II

Spring. 2(2-0)

P: MUS 363. R: Not open to freshmen and sophomores. Not open to students in the School of Music. How children learn music in grades 4-6.

465. Music in Early Childhood

Fall, Spring. 2(2-0)

P: MUS 260, R: Not open to freshmen and sophomores. Open only to students in the School of Music with a teacher certification option and to students with a Music teaching minor.

Music learning activities and teaching strategies for children ages three to six.

467. Teaching General Music in the Elementary School

Fall. 3(2-2)

P: MUS 339. R: Open only to seniors and graduate students in the School of Music with a teacher certification option and to seniors and graduate students with a Music teaching minor.

Techniques for teaching general music to students in grades K-6. Topics include curriculum, pedagogy, materials, and program administration. Clinical experience in schools required.

468. Teaching Choral Music in the Secondary School

Spring. 3(2-2)

P: MUS 339. R: Open only to seniors and graduate students in the School of Music with a teacher certification option and to seniors and graduate students with a Music teaching minor.

Techniques for developing choral music programs in grades 7-12. Topics include curriculum, pedagogy, materials, and program administration. Clinical experience in schools required.

470. Music Therapy: Mental and Behavioral Disorders

Fall. 3(3-1)

P: MUS 371. R: Open only to Music Therapy majors. Use of music therapy to treat clients with mental and behavioral disabilities. Clinical practicum required.

Music Therapy: Physical and Developmental Disabilities Spring. 3(3-1)

P: MUS 470. R: Open only to Music Therapy majors. Use of music therapy to treat clients with physical and developmental disabilities. Clinical practicum required.

Aesthetic Theory and Modernism

Fall. 4 credits. Interdepartmental with Philosophy, History of Art, English, Linguistics and Languages, and Romance Languages. Administered by Philosophy.

R: Not open to freshmen and sophomores. Completion of Tier I writing requirement.

Problems, assumptions, and arguments of modern aesthetic theory examined in the context of debates over modernity and modernist artistic practice.

476. Psychology of Music: Foundations Fall. 3(3-0)

R: Not open to freshmen and sophomores.

Psychoacoustics and neurophysiological processing of music. Affective response to music and musical preference. Function of music in society. Nature of musical talent.

Psychology of Music: Research 477. Methodology and Application Spring. 2(2-0)

P: MUS 476.

Research projects and proposal writing. Application of elementary statistical concepts in evaluating responses to music.

Counterpoint 480.

Fall, Spring. 2(2-0)

P: MUS 381. R: Open only to majors in School of Music. Creative and analytical work with two-and three-part counterpoint in the style of J.S. Bach.

483. Composition

Fall, Spring. 2 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: MUS 281. R: Open only to majors in School of Music. Private instruction in music composition.

484. Instrumentation and Basic Orchestration

Fall. 2(2-1)

P: MUS 381. R: Open only to majors in School of Music. Four families of orchestral instruments: strings, woodwinds, brass, and percussion. Acoustics, notation, range, articulation, dynamics, technique, and timbre for individual instruments and orchestral sections.

Advanced Orchestration

Spring, 2(2-0)

P: MUS 484. R: Open only to majors in School of Music. Transcription techniques. Orchestral devices and styles. Additional percussion material, harp, and auxiliary instruments.

490. Independent Study

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this

R: Approval of school.

Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

Special Topics in Music 491.

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course.

R: Approval of school.

Special topics supplementing regular course offerings proposed by faculty for group study.

Music Therapy: Clinical Practicum

Fall, Spring, Summer. 1 credit.

P: MUS 471. R: Open only to Music Therapy majors. Six months of internship in an approved music therapy clinical program at an accredited treatment center.

Directed Teaching

Fall, Spring. 9 credits. Interdepartmental with Teacher Education. P: MUS 260, MUS 335, MUS 336, MUS 339, TE 250; MUS 457, MUS 458 or MUS 467, MUS 468. R: Open only to seniors in Instrumental Music Education, Stringed Instrument Music Education, and Vocal-General Music Education.

Supervised Music teaching experience in Schools, oncampus seminar required.

Research Methods and Materials in Music

Fall. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. R: Approval of school.

Organization, presentation, and documentation of research. Encyclopedias, indices, databases, and other

832. Seminar in Ethnomusicology

Fall, 3(3-0)

Historical development of ethnomusicology. Theories and techniques of the discipline.

Fieldwork in Ethnomusicology 833.

Fall. 3(3-0)

Fieldwork methods and experience. Theoretical issues. Research strategies and techniques.

Medieval Music

Fall. 3(3-0)

P: MUS 830 recommended. R: Open only to graduate students in School of Music.

European music to 1400. Emphasis on polyphonic music, with some attention to Gregorian chant and secular monophony.

836. Renaissance Music

Spring. 3(3-0)

R: Open only to graduate students in School of Music. European music, sacred and secular, from 1400 to 1600.

17th-Century Music

Fall. 3(3-0)

P: MUS 830 recommended. R: Open only to graduate students in School of Music.

Instrumental and vocal music in Europe from 1600 to 1700. Development of genres and of national styles.

844. Secondary or Specialist Emphasis: Piano

Fall, Spring. 1(1-0) A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to graduate students in School of Music. Approval of school. Audition required. Not open to students with an emphasis in piano.

Instruction in piano for students whose principal instrument is not piano.

845. Secondary or Specialist Emphasis: Voice

Fall, Spring. 1(1-0) A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to graduate students in School of Music. Not open to students with a emphasis in voice. Approval of school. Audition required.

Instruction in vocal techniques for students whose principal emphasis is not voice.

Secondary or Specialist Emphasis: String

Fall, Spring. 1(1-0) A student may earn a maximum of 8 credits in all enrollments for this course. R. Open only to graduate students in School of Music. Approval of school. Audition required.

Instruction in violin, viola, cello, or double bass.

Secondary or Specialist Emphasis: Brass

Fall, Spring. 1(1-0) A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to graduate students in School of Music. Approval of school. Audition required.

Instruction in trumpet, trombone, euphonium, or tuba.

Secondary or Specialist Emphasis: Woodwind

Fall, Spring. 1(1-0) A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to graduate students in School of Music. Approval of school. Audition required.

Instruction in flute, clarinet, oboe, bassoon, or saxophone.

Piano Performance 849.

Fall, Spring. 1(1-0) A student may earn a maximum of 10 credits in all enrollments for this course. R: Open only to graduate students in School of Music. Approval of school.

Critique and analysis of individual performances of piano literature in a group setting.

850A. Piano

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in piano and to master's students in Music Education. Approval of school. Audition re-

Private instruction in piano.

850B. Organ

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this

R: Open only to master's students in Music Performance with an emphasis in organ. Approval of school. Audition required.

Private instruction in pipe organ.

850C.

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this

R: Open only to master's students in Music Performance with an emphasis in harp. Approval of school. Audition required.

Private instruction in haro.

851. Voice

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this

R: Open only to master's students in Music Performance with an emphasis in voice. Approval of school. Audition required.

Private instruction in voice.

852A. Violin

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this

R: Open only to master's students in Music Performance with an emphasis in violin. Approval of school. Audition required.

Private instruction in violin.

852B. Viola

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in viola. Approval of school. Audition required.

Private instruction in viola.

852C. Cello

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in cello. Approval of school. Audition required.

Private instruction in cello.

852D. Double Bass

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in double bass. Approval of school. Audition required.

Private instruction in double bass.

853A. Flute

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in flute. Approval of school. Audition required.

Private instruction in flute.

853B. Oboe

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in oboe. Approval of school. Audition required.

Private instruction in oboe.

853C. Clarinet

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in clarinet. Approval of school. Audition required.

Private instruction in clarinet.

853D. Saxophone

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R:Open only to master's students in Music Performance with an emphasis in saxophone. Approval of school. Audition required.

Private instruction in saxophone.

853E. Bassoon

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in bassoon. Approval of school. Audition required.

Private instruction in bassoon.

854A. Trumpet

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in trumpet. Approval of school. Audition required.

Private instruction in trumpet.

854B. Horn

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R:Open only to master's students in Music Performance with an emphasis in horn. Approval of school. Audition required.

Private instruction in horn.

854C. Trombone

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in trombone. Approval of school. Audition required.

Private instruction in trombone.

854D. Euphonium

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in euphonium. Approval of school. Audition required.

Private instruction in euphonium.

854E. Tuba

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in tuba. Approval of school. Audition required.

Private instruction in tuba.

855. Percussion

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to master's students in Music Performance with an emphasis in percussion. Approval of school. Audition required.

Private instruction in percussion.

856. Chamber Music

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to graduate students in School of Music. Approval of school. Audition required.

Performance of pre-20th century chamber music under faculty direction.

857. 20th-Century Chamber Music

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

R: Open only to graduate students in School of Music. Approval of school. Audition required.

Performance of 20th century chamber music under faculty direction.

858A. Seminar in Band Conducting

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 36 credits in all enrollments for this course.

R: Open only to graduate students in School of Music. Approval of school. Audition required.

Advanced band conducting, including core repertoire examination and execution with emphasis on score analysis and preparation.

858B. Seminar in Orchestral Conducting

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to graduate students in School of Music. Approval of department. Approval of school; audition required.

Advanced conducting techniques for the orchestral literature of all periods for string, chamber, and symphony orchestras.

858C. Seminar in Choral Conducting

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 36 credits in all enrollments for this course.

R: Open only to graduate students in School of Music. Approval of school. Audition required.

Advanced conducting techniques for choral and instrumental music of all periods.

859. Choral Techniques and Materials

Spring of even-numbered years. 3(3-0) A student may earn a maximum of 15 credits in all enrollments for this course.

R: Open only to graduate students in School of Music. Advanced development of choral proficiency. Demonstrations of choral techniques. Conducting by students. Examination and evaluation of new materials. Variable content.

860. Seminar in History and Philosophy of Music Education

Spring of even-numbered years, 3(3-0)
R: Open only to graduate students in College of Arts and
Letters and in College of Education.

A comparison of philosophical views regarding the nature of music education leading to the development of a personal, professional philosophy of music education.

861. Seminar in Psychology of Music Education

Fall. 3(3-0)

R: Open only to graduate students in College of Arts and Letters and College of Education.

Psychological foundations of music teaching and learning. Psychological research on problems of music teaching.

862. Seminar in Music Curriculum and Methodology

Fall. 3(3-0)

R: Open only to graduate students in College of Arts and Letters and in College of Education.

Historical, philosophical, and psychological foundations of music education curriculum and methodology. Curriculum development and implementation.

864. Research in Music Education and Music Therapy

Fall, Summer of even-numbered years. 3(3-0) R: Open only to graduate students in College of Arts and Letters and in College of Education.

Methods of research in music education and music therapy. Conceptualizing and implementing a study. Systematic information retrieval. Proposal writing.

865. Advanced Methods and Materials in Secondary Music Education

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

Current methods and materials for teaching music in secondary schools. Topics vary.

866. Advanced Methods and Materials in Elementary Music Education

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

Current methods and materials for teaching music in elementary schools. Topics vary.

Descriptions —Music

Courses

868. Current Studies in Music Therapy

Fall. 2(2-0)

R: Open only to graduate students in Music Therapy and in Music Education.

Evaluation of current research in such areas of music therapy as stress and pain reduction, and music psychotherapy.

869. Education, and Administration in Music Therapy

Spring. 2(2-0)

R: Open only to graduate students in Music Therapy. Administration of clinical and educational programs in music therapy. Curriculum development. Clinical preparation. Ethical, fiscal, and regulatory issues.

Contrapuntal Techniques I 870.

Fall of odd-numbered years. 3(3-0)

R: Open only to graduate students in School of Music. Techniques of voice-leading through imitative counterpoint. Compositional exercises modeled after sacred vocal polyphony of the sixteenth century, principally Palestrina and Victoria.

Contrapuntal Techniques II 871.

Spring of even-numbered years. 3(3-0) P: MUS 870. R: Open only to graduate students in

School of Music.

Compositional exercises modeled after instrumental polyphony of the eighteenth century, principally J.S. Bach. Influence of fugal technique in the nineteenth and twentieth centuries.

872. Tonal Forms

Fall. 2(2-0)

R: Open only to graduate students in School of Music. Music from the period of common practice and its relationship to music composition. Interplay of melody, harmony, rhythm, and timbre in various structural units.

873. Early 20th Century Techniques

Spring. 2(2-0)

R: Open only to graduate students in School of Music. Melodic, harmonic, rhythmic, and textural devices employed in early twentieth century music.

Schenkerian Analysis

Fall. 2(2-0)

R: Open only to graduate students in School of Music. Thought, works, and influences of Heinrich Schenker. Techniques of linear analysis emphasizing the role of long-range voice-leading musical structure.

875. Analysis of Musical Scores

Summer. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to graduate students in School of Music. Analysis of choral, orchestral, and band music as a means of enhancing interpretation and performance.

History of Music Theory 876.

Fall of odd-numbered years. 3(3-0)

P: MUS 830 recommended. R: Open only to graduate students in School of Music.

Principal western theories of music from Pythagoras to the present. Ideas contributing to the development of modern musical thought and their place in western intellectual history.

877. Scoring for Orchestra and Band

Fall, 2(2-1)

R: Open only to graduate students in the School of Music.

Theory and practice in scoring for orchestra and band.

878. Advanced Scoring for Orchestra and **Band**

Spring. 2(2-1)

P: MUS 877. R: Open only to graduate students in the School of Music.

Orchestra scoring from Bach to Boulez and band scoring from Sousa to Maslanka. Advanced scoring proiects.

Composition 880.

Fall, Spring. 2(2-0) A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to graduate students in School of Music. Advanced guided projects in creative writing of music.

881. Seminar in Composition

Fall, Spring. 2(2-0) A student may earn a maximum of 20 credits in all enrollments for this course. R: Open only to graduate students in School of Music. Study of contemporary music, with emphasis on compositional procedures.

Composition with Computers

Fall. 2(2-1)

R: Open only to graduate students in School of Music. Current applications of microcomputers in musical composition.

883. Advanced Computer Music Projects

Spring. I to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: MUS 882 or MUS 441. R: Open only to graduate students in School of Music and in Computer Science. Techniques and principles of composition and research with computers. Use of computer hardware and software.

890. Independent Study

Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 20 credits in all enrollments for this course.

R: Approval of school.

Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.

891. Special Topics

Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 25 credits in all enrollments for this course.

R: Approval of school.

Special topics supplementing regular course offerings proposed by faculty on a group study basis for graduate

892A. Seminar in Music History

Fall, Spring. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this

R: Open only to graduate students in School of Music. Approval of school.

Various areas of music history, such as major composers, development of genres, criticism, or cultural context.

Recital Performance 896.

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course.

R: Open only to master's students in Music Performance. Approval of school.

Directed experience in recital performance in partial fulfillment of Plan B master's degree requirements.

Concert Conducting

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course.

R: Open only to master's students in Music Performance. Approval of school.

Directed experience in concert conducting in partial fulfillment of Plan B master's degree requirements.

898. Master's Research

Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 20 credits in all enrollments for this course.

R: Open only to master's students in School of Music. Approval of school.

Directed research in support of Plan B master's degree requirements.

Master's Thesis Research

Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 20 credits in all enrollments for this course.

R: Open only to master's students in School of Music. Approval of school.

Directed research in partial fulfillment of Plan A master's degree requirements.

935. Seminar in 18th Century Music

Spring of odd-numbered years. 3(3-0)

R: Open only to graduate students in School of Music. Research on topics in eighteenth-century music.

936. Seminar in 19th-Century Music

Fall of even-numbered years. 3(3-0)

R: Open only to doctoral students in School of Music. Selected topics in 19th-century music.

937 Seminar in 20th-Century Music

Spring of even-numbered years. 3(3-0)

R: Open only to doctoral students in School of Music. Selected topics in 20th-century music.

950A. Piano

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in piano. Approval of school. Audition required.

Private instruction in piano.

950B. Organ

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this

R: Open only to doctoral students in Music Performance with an emphasis in organ. Approval of school. Audition required.

Private instruction in pipe organ.

950C.

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this

R: Open only to doctoral students in Music Performance with an emphasis in harp. Approval of school. Audition required.

Private instruction in harp.

951.

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in voice. Approval of school. Audition required.

Private instruction in voice.

952A. Violin

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this

R: Open only to doctoral students in Music Performance with an emphasis in violin. Approval of school. Audition required.

Private instruction in violin.

952B. Viola

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in viola. Approval of school. Audition required.

Private instruction in viola.

952C. Cello

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in cello. Approval of school. Audition required.

Private instruction in cello.

952D. Double Bass

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in double bass. Approval of school. Audition required.

Private instruction in double bass.

953A. Flute

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R:Open only to doctoral students in Music Performance with an emphasis in flute. Approval of school. Audition required.

Private instruction in flute.

953B. Oboe

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in oboe. Approval of school. Audition required.

Private instruction in oboe.

953C. Clarinet

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in clarinet. Approval of school. Audition required.

Private instruction in clarinet.

953D. Saxophone

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in saxophone. Approval of school. Audition required.

Private instruction in saxophone.

953E. Bassoon

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this

R: Open only to doctoral students in Music Performance with an emphasis in bassoon. Approval of school. Audition required.

Private instruction in bassoon.

954A. Trumpet

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in trumpet. Approval of school. Audition required.

Private instruction in trumpet.

954B. Horn

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in horn. Approval of school. Audition required.

Private instruction in horn.

954C. Trombone

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in trombone. Approval of school. Audition required.

Private instruction in trombone.

954D. Euphonium

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in euphonium. Approval of school. Audition required.

Private instruction in euphonium.

954E. Tubo

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in tuba. Approval of school. Audition required.

Private instruction in tuba.

955. Percussion

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance with an emphasis in percussion. Approval of school. Audition required.

Private instruction in percussion.

958A. Seminar in Band Conducting

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

R: Open only to doctoral students in School of Music. Approval of school; audition required.

Advanced band conducting, including core repertoire examination and execution, with emphasis on score analysis and preparation.

958B. Seminar in Orchestral Conducting

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

R: Open only to doctoral students in School of Music. Approval of school; audition required.

Advanced conducting techniques for the orchestral literature of all periods for string, chamber, and symphony orchestras.

958C. Seminar in Choral Conducting

Fall, Spring. I to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

R: Open only to doctoral students in School of Music. Approval of school; audition required.

Advanced conducting techniques for choral and instrumental music of all periods.

960. Seminar in Measurement in Music Education

Spring of odd-numbered years. 3(3-0)

P: MUS 864, MUS 965 or approval of school. R: Open only to graduate students in Music Education or approval of school.

Theory and practice of measuring musical behavior in terms of aptitude and achievement. Current trends in cognitive, affective, and psychomotor measurement in music.

961. Seminar in Music Teacher Education

Fall of odd-numbered years. 3(3-0)

R: Open only to graduate students in College of Arts and Letters and in College of Education.

Issues, trends, and strategies for preparing prospective music educators.

962. Advanced Studies in the Philosophy of Music Education

Fall of even-numbered years. 3(3-0)

R: Open only to graduate students in College of Arts and Letters and in College of Education.

Historic and contemporary views of the value and import of music and music education and their translation into practice.

963. Seminar in Administration of Music Programs

Spring of even-numbered years, 3(3-0)
R: Open only to graduate students in College of Arts and
Letters and in College of Education.

Issues and strategies for effective administration of music education programs in K-12 and higher education.

965. Advanced Research Methods in Music Education

Spring. 3(3-0)

P: MUS 864. R: Open only to graduate students in College of Arts and Letters and in College of Education. Music education research projects using computerized statistical analysis.

970. Pedagogy of Theory

Fall of odd-numbered years. 3(3-0)

R: Open only to graduate students in the School of Music.

Organization, goals, and procedures for teaching music theory to undergraduates. Choice and sequencing of topics, pacing, supplementary materials, educational philosophies, and relevance to performance. SA: MUS 971

972. Analytical Studies I

Fall. 3(3-0)

R: Open only to graduate students in School of Music. Melody, harmony, rhythm, color, texture, counterpoint, and structure in selected musical masterpieces from the 13th century to the early 19th century.

973. Analytical Studies II

Spring. 3(3-0)

R: Open only to graduate students in School of Music. Melody, harmony, rhythm, color, texture, counterpoint, and structure in selected musical masterpieces from the nineteenth and twentieth centuries.

974. Atonality, Serialism, and Set Theory Spring. 2(2-0)

R: Open only to graduate students in School of Music. Atonal and paratonal music. Related compositional and analytical systems. Serialism, integral serialism, and set theory.

975. Readings in Music Theory

Spring of odd-numbered years. 2(2-0)

R: Open only to graduate students in School of Music. Current topics in music theory. Research paper required.

Descriptions —Music of Courses

980. Composition

Fall, Spring. 2(2-0) A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to graduate students in School of Music. Advanced guided projects in creative writing of music.

990. Doctoral Independent Study

Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 20 credits in all enrollments for this course.

R: Approval of school.

Special projects, directed reading, and research arranged by an individual doctoral candidate and a faculty member in areas supplementing the regular course offerings.

991. Special Topics

Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 25 credits in all enrollments for this course.

R: Approval of school.

Special topics supplementing regular course offerings proposed by faculty on a group study basis for doctoral students.

992. Seminar in Musicology

Spring, 3(3-0) A student may earn a maximum of 18 credits in all enrollments for this course. R: Open only to graduate students in School of Music. Topics in musicology such as early notations, music editing, or historical performance practices.

996. Doctoral Recital Performance

Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 30 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance.

Directed experience in recital performance in partial fulfillment of requirements for the Doctor of Musical Arts degree.

997. Doctoral Concert Conducting

Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 30 credits in all enrollments for this course.

R: Open only to doctoral students in Music Performance.

Directed experience in concert conducting in partial fulfillment of requirements for the Doctor of Musical Arts degree.

999. Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 40 credits. A student may earn a maximum of 40 credits in all enrollments for this course.

R: Open only to doctoral students in School of Music. Approval of school.

NATURAL SCIENCE

NSC

College of Natural Science

101. Preview of Science

Fall. 1(1-0) Interdepartmental with Agriculture and Natural Resources, Engineering, and Social Science.

R: Approval of College

Overview of natural sciences. Transitional problems. Communications and computer skills. Problem solving skills. Diversity and ethics problems in science. Science and society.

192. Environmental Issues Seminar

Fall, Spring. 1(1-0) A student may earn a maximum of 4 credits in all enrollments for this course. Interdepartmental with Agriculture and Natural Resources, Engineering, and Social Science.

R: Open only to students in the College of Agriculture and Natural Resources, College of Engineering, College of Natural Science, and College of Social Science. Approval of College.

Environmental issues and problems explored from a variety of perspectives, including legal, scientific, historical, political, socio-economic, and technical points of view.

201. Science Problem Solving Seminar I Fall. 2(2-0)

P: Drew Section of MTH 0823 or MTH 116 or MTH 132 concurrently. R: Approval of college.

Problem solving principles and strategies used in the disciplines of science and mathematics. Activities reflecting the types of problems encountered.

202. Science Problem Solving Seminar II Spring. 2(2-0)

P: NSC 201. R: Approval of college. Continuation of NSC 201.

203. Drew Laboratory Directed Studies

Fall, Spring, Summer. 1 to 2 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

P: NSC 202. R: Open only to Drew Laboratory students. Using topics related to a faculty member's ongoing research, students explore the relationship between science and technology and social issues.

320. Introduction to Theory and Applications of Modern Microscopy Spring. 2(1-2)

P: Completion of University mathematics requirement. R: Open only to juniors and seniors.

General principles of operation of electron, laser, and scanning probe microscopes. Applications of microscopy. Specimen preparation for microscopy.

390. Special Problems

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

R: Approval of department.

Faculty directed individualized study of an interdisciplinary problem.

401. Science Laboratories for Secondary Schools (W)

Fall. 4(2-6)

R: Open only to seniors in the College of Natural Science with a teacher certification option. Completion of Tier I writing requirement.

Laboratory equipment, supplies, demonstrations, exercises, and safety. Care of live organisms. Disposal of biological and chemical wastes. Field trips required.

490. Special Problems

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

R: Approval of department.

Faculty directed individualized study of an interdisciplinary problem.

491. Selected Topics

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

R: Approval of department.

Selected interdisciplinary topics not normally covered in other courses. $% \left\{ \mathbf{r}_{i}^{\mathbf{r}_{i}}\right\} =\mathbf{r}_{i}^{\mathbf{r}_{i}}$

495. Capstone in Human Biology (W)

Fall, Spring. 2(2-0)

R: Open only to seniors in Biological Science-Interdepartmental: Human Biology option.

Completion of Tier I Writing Requirement.

Integration of human biology disciplines with a focus on health and disease.

499. Research

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

R: Open only to juniors and seniors in the College of Natural Science with a teacher certification option. Research in faculty laboratories. Oral and written presentations.

600. Special Problems for K-8 Teachers

Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 10 credits in all enrollments for this course.

R: Elementary teacher certification, 3 years teaching experience. Approval of department.

Supervised study of problems in biological, physical, or earth sciences.

651. Physical Science I

Summer, 2 credits.

R: Elementary teacher certification, 3 years teaching experience. Approval of college.

The nature of matter and energy including energy transfer, density, and conservation of mass. Properties of elements, mixtures, and compounds.

652. Physical Science II

Summer. 2 credits.

R: Elementary teacher certification, 3 years teaching experience. Approval of college.

Electricity and magnetism, force and motion, heat and temperature, sound, and light

653. Earth Science I

Summer, 2 credits.

R: Elementary teacher certification, 3 years teaching experience. Approval of college.

The solar system, including the sun, planets, earth, and its moon. Weather and the water cycle.

654. Earth Science II

Summer, 2 credits.

R: Elementary teacher certification, 3 years teaching experience. Approval of college.

Rocks, minerals, and fossils and the physical and geological processes that form them.

655. Life Science I

Summer. 2 credits.

R: Elementary teacher certification, 3 years teaching experience. Approval of college.

Structure, function, genetics, and classification of organisms, including protists, plants, animals, and decomposers.

656. Life Science II

Summer. 2 credits.

R: Elementary teacher certification, 3 years teaching experience. Approval of college.

Interrelationships among and between organisms and their surroundings. Ecosystems, habitats, food chains, cycles, and pollution.

800. Problems in Biological or Physical Science for Teachers

Fall, Spring, Summer. 2 to 8 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

R: Teacher Certification required. Approval of college. Supervised study of problems in biological or physical science.