

Descriptions—Military Science of Courses

- 302. Leadership: Small Unit Tactics**
Spring. 3(3-2) P: (MS 301)
Basic military tactics and the military communication/orders process focusing on small units. Application of lessons learned from leadership case studies to practical exercises of leadership. Delegation of tasks and supervision of subordinates in a stressful environment.
- 401. Leadership: Training Management, Counseling, and Unit Management**
Fall. 3(3-2) P: (MS 302)
Army training philosophy. The lieutenant's role in training management, personnel administration, and logistics. Practical exercises in counseling and training presentations. Practical application of leadership development doctrine. Laboratory includes practical experience in unit administration and training management.
- 402. Military Law, Ethics and Professionalism**
Spring. 3(3-2) P: (MS 401)
Introduction of the military legal system and the Law of War. The basis of the military profession and the importance of ethical development to the profession of arms. Development of subordinates. Laboratory includes practical exercises in professional development and leadership opportunities.
- 490. 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 or seniors. Approval of department.
Individual research in areas related to military science.
- 112. Chamber Music**
Fall, Spring. 1(0-2) 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.
- 114. Marching Band**
Fall. 1(0-9) 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(0-2) 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.

- 116. Campus Band**
Fall, Spring. 1(0-3) 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(0-3) 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.
- 118. Wind Symphony**
Fall, Spring. 1(0-6) 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.
- 119. Symphony Band**
Fall, Spring. 1(0-3) 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.
- 120. Symphony Orchestra**
Fall, Spring. 1(0-6) 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.
- 122. Campus Orchestra**
Fall, Spring. 1(0-2) 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.
- 123. Collegiate Choir**
Fall, Spring. 1(0-3) 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.
- 124. Choral Union**
Fall, Spring. 1(0-2) 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.
- 125. Glee Club, Men and Women**
Fall, Spring. 1(0-3) 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.

- 126. State Singers**
Fall, Spring. 1(0-4) 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(0-4) 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.
- 129. Percussion Ensemble**
Fall, Spring. 1(0-3) 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.
- 130. Jazz Band**
Fall, Spring. 1(0-4) 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.
- 141. Class Instruction in Piano I**
Fall, Spring. 1(1-1) R: Open only to students in the School of Music.
Use of the piano as a teaching tool.
- 142. Class Instruction in Piano II**
Spring. 1(1-1) P: (MUS 141) R: Open only to students in the School of Music.
Use of the piano as a teaching tool.
- 143. Class Instruction in Voice I: Music Majors**
Fall. 1(1-1) C: MUS 151 concurrently. R: Open only to students in the School of Music with an emphasis in voice.
English lyric diction. Rules of pronunciation. Performance of English language songs in class.
- 144. Class Instruction in Voice II: Music Majors**
Spring. 1(1-1) P: (MUS 143) R: Open only to students in the School of Music with an emphasis in voice.
Italian lyric diction. Rules of pronunciation. Performance of Italian language songs in class.
- 145. Class Instruction in Voice I**
Fall. 1(1-1) R: Not open to students in the School of Music with an emphasis in voice.
Rules of pronunciation. Vocal techniques.
- 146. Class Instruction in Voice II**
Spring. 1(1-1) P: (MUS 145) R: Not open to students in the School of Music with an emphasis in voice.
Vocal techniques and exploration of vocal literature.

MUSIC

MUS

School of Music College of Arts and Letters

147. Class Instruction in Elementary Piano I

Fall, Spring. 2(2-1) R: Not open to students in the School of Music.

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

148. Class Instruction in Elementary Piano II

Fall, Spring. 2(2-1) P: (MUS 147) R: Not open to students in the School of Music.

Note reading and performance, folksongs, easy ragtime, jazz, and shorter classics.

149. Keyboard Skills

Fall, Spring. 1(0-2) A student may earn a maximum of 4 credits in all enrollments for this course. R: Open only to students in the School of Music.

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

150A. 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 students in the School of Music. Audition required.

Private instruction in piano.

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 the 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 the School of Music and students in the 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 course. R: Audition required.

Private instruction in viola.

152C. Cello

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 course. R: Audition required.

Private instruction in oboe.

153C. Clarinet

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 the Music Therapy major and to other students in the 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 the School of Music with a teacher certification option.

Techniques for playing and teaching stringed instruments.

162. Class Instruction in Flute and Saxophone

Spring. 1(0-2) R: Open only to students in the School of Music with a teacher certification option.

Techniques for playing and teaching flute and saxophone.

163. Class Instruction in Clarinet

Fall. 1(0-2) R: Open only to students in the School of Music with a teacher certification option.

Techniques for playing and teaching clarinet.

164. Class Instruction in Double Reed Instruments

Spring. 1(0-2) R: Open only to students in the 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(0-2) R: Open only to students in the 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(0-2) R: Open only to students in the School of Music with a teacher certification option.

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

Descriptions—Music of Courses

167. Class Instruction in Percussion Instruments

Fall. 2(1-2) R: Open only to students in the School of Music with a teacher certification option.

Techniques for playing and teaching percussion instruments.

168. Class Instruction in Percussion for Vocal-General Music Education Majors

Spring. 1(1-1) P: (MUS 141) Not open to students with credit in MUS 167.

Techniques for playing and teaching percussion instruments at the introductory level.

169. Class Instruction in Stringed Instruments for Vocal Music Education Majors

Fall. 1(1-1) P: (MUS 141) Not open to students with credit in MUS 161.

Techniques for playing and teaching stringed instruments at the introductory level.

175. Understanding Music

Fall, Spring. 2(2-0)

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

180. 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.

182. 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.

183. Ear Training and Sight Singing II

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.

200. Introduction to Music Theory

Fall. 1(1-1) R: Open only to graduate students in the 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 the 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

211. History of Western Music to 1750

Fall. 3(3-0) P: (MUS 181) R: Not open to freshmen. Open only to students in the 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.

212. History of Western Music Since 1750

Spring. 3(3-0) P: (MUS 181) (MUS 211) R: Not open to freshmen. Open only to students in the School of Music.

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

230. Beginning Jazz Improvisation I

Spring. 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.

231. Beginning Jazz Improvisation II

Spring. 2(2-0) 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.

241. Advanced Class Instruction in Piano I

Fall. 1(1-1) P: (MUS 142) R: Not open to freshmen. Open only to students in the 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 the School of Music with an emphasis in voice.

Use of the piano as a teaching tool in school music.

248. German Diction for Singers

Fall. 1(1-1) P: (MUS 151) R: Open only to students in the School of Music.

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

249. French Diction for Singers

Spring. 1(1-1) P: (MUS 151) R: Open only to students in the 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) P: (MUS 181) 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.

270. 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.

271. 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.

280. 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.

282. 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 course. 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 or sophomores.

Secondary dominants, borrowed chords, and tritone substitutions. Transcription of recorded jazz solos.

331. Advanced Jazz Improvisation II

Spring. 2(2-0) P: (MUS 330) R: Not open to freshmen or 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 major in Music Therapy or Composition and Music Theory and to students with a Music teaching minor.

Introduction to conducting and rehearsal techniques.

336A. 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 students with a major in Composition and Music Theory.

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 major in Composition and Music Theory.

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) P: (MUS 281) 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 the 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 the 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 the 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 the School of Music.

Intermediate and advanced methods and literature for teaching piano. Observation and teaching of piano students.

348. Piano Accompanying

Fall, Spring. 1(0-3) A student may earn a maximum of 8 credits in all enrollments for this course. P: (MUS 149) C: MUS 150A or MUS 350A concurrently. R: Not open to freshmen. Open only to students in the School of Music.

Accompaniment of instrumental and vocal soloists.

349. Piano Performance

Fall, Spring. 1(0-2) A student may earn a maximum of 10 credits in all enrollments for this course. R: Open only to students in the School of Music. C: MUS 150A, MUS 350A concurrently.

Critique and analysis of individual performances in a group setting.

350A. Piano

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 the School of Music. Approval of school.

Private instruction in piano.

350B. Pipe Organ

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 majors in the 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 the School of Music. Approval of school.

Private instruction in harp.

351. Voice

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P: (MUS 151) R: Open only to majors in the School of Music and to students in the 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 course. P: (MUS 152A) R: Open only to majors in the 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 the School of Music. Approval of school.

Private instruction in viola.

352C. Cello

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course. P: (MUS 152C) R: Open only to majors in the 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 the 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 the School of Music. Approval of school.

Private instruction in flute.

353B. Oboe

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 the School of Music. Approval of school.

Private instruction in oboe.

353C. Clarinet

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 the 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 the School of Music. Approval of school.

Private instruction in saxophone.

353E. 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 the School of Music. Approval of school.

Private instruction in bassoon.

354A. 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 the 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 the School of Music. Approval of school.

Private instruction in horn.

354C. Trombone

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course. P: (MSU 154C) R: Open only to majors in the 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 course. P: (MUS 154D) R: Open only to majors in the 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 course. P: (MUS 154E) R: Open only to majors in the 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 the School of Music. Approval of school.

Private instruction in percussion.

370. 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.

371. 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.

380. Musical Styles and Forms (W)

Fall. 3(3-1) P: (MUS 281) and completion of Tier I writing requirement. R: Open only to majors in the School of Music.

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

Descriptions—Music of Courses

- 381. 20th Century Music Theory**
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.
- 412. History of Oratorio**
Spring of even years. 2(2-0) P: (MUS 211) R: Open only to majors in the School of Music.
History and literature of oratorio since 1600.
- 413. Keyboard Literature to Mid-19th Century**
Fall of even years. 2(2-1) P: (MUS 281) R: Open only to majors in the School of Music.
Keyboard styles and works of representative composers such as Bach, Couperin, Mozart, Haydn and Beethoven.
- 414. Keyboard Literature since the Mid-19th Century**
Spring of odd years. 2(2-1) P: (MUS 413) R: Open only to majors in the 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 years. 2(2-1) P: (MUS 181) R: Open only to majors in the School of Music. Not open to freshmen or sophomores.
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 years. 2(2-1) P: (MUS 181) R: Open only to majors in the School of Music. Not open to freshmen or sophomores.
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 years. 2(2-0) P: (MUS 212) R: Not open to freshmen or sophomores. Open only to majors in the School of Music.
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 years. 2(2-0) P: (MUS 212) R: Not open to freshmen or sophomores. Open only to majors in the School of Music.
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 years. 2(2-0) P: (MUS 212) R: Not open to freshmen or sophomores. Open only to majors in the School of Music.
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 years. 2(2-0) P: (MUS 212) R: Open only to majors in the School of Music.
Musical, cultural, and social significance of opera since 1600.
- 425. Music of South Asia and Its Diaspora**
Fall of odd years. 2(2-0) R: Not open to freshmen or 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 years. 2(2-0) R: Not open to freshmen or 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 the School of Music. Not open to freshmen or sophomores.
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 the School of Music. Not open to freshmen or sophomores.
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 years. 2(2-0) R: Not open to freshmen or sophomores.
Music associated with the cultures of East and Southeast Asia.
- 430. Music of the Caribbean**
Spring of even years. 2(2-0) R: Not open to freshmen or 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 or 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 or sophomores.
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 the School of Music.
Advanced piano literature for private lessons and classrooms.
- 449. Advanced Keyboard Methods and Literature II**
Spring. 2(2-0) P: (MUS 448) R: Open only to majors in the School of Music.
Advanced piano literature for private lessons and classrooms.
- 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 or 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 freshmen or 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 the 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 or 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 463) R: Not open to freshmen or 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 or 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 or concurrently and PSY 280 or concurrently) R: Open only to Music Therapy majors.
Use of music therapy to treat clients with mental and behavioral disabilities. Clinical practicum required.

471. Music Therapy: Physical and Developmental Disabilities
Spring. 3(3-1) P: (MUS 470 or concurrently and CEP 240 or concurrently) R: Open only to Music Therapy majors.
Use of music therapy to treat clients with physical and developmental disabilities. Clinical practicum required.

474. Aesthetic Theory and Modernism
Fall. 4(4-0) Interdepartmental with Philosophy; English; History of Art; Linguistics and Languages; and Romance Languages. Administered by Philosophy. R: Not open to freshmen or sophomores.
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 or sophomores.
Psychoacoustics and neurophysiological processing of music. Affective response to music and musical preference. Function of music in society. Nature of musical talent.

477. Psychology of Music: Research 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.

480. Counterpoint
Fall, Spring. 2(2-0) P: (MUS 381) R: Open only to majors in the 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 the School of Music.
Private instruction in music composition.

484. Instrumentation and Basic Orchestration
Fall. 2(2-1) P: (MUS 380) R: Open only to majors in the 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.

485. Advanced Orchestration
Spring. 2(2-0) P: (MUS 484) R: Open only to majors in the 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 course. R: Approval of school.
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

491. Special Topics in Music
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.

493. 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.

495. Directed Teaching
Fall, Spring. 9 credits. Interdepartmental with Teacher Education. P: (MUS 260 and MUS 335 and MUS 339 and TE 250) and (TE 301 and MUS 457 and MUS 458) or (MUS 467 and MUS 468) R: Open only to seniors in the Instrumental Music Education or the Stringed Instrument Music Education or the Vocal-General Music Education major.
Supervised Music teaching experience in Schools, on-campus seminar required.

830. 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 aids.

832. Seminar in Ethnomusicology
Fall. 3(3-0) Fall: odd years.
Historical development of ethnomusicology. Theories and techniques of the discipline.

833. Fieldwork in Ethnomusicology
Fall. 3(3-0)
Fieldwork methods and experience. Theoretical issues. Research strategies and techniques.

835. 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.

837. 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.

843. Seminar in Piano Pedagogy
Fall, Spring. 2(2-0) A student may earn a maximum of 8 credits in all enrollments for this course. P: (MUS 346 and MUS 347 and MUS 448) RB: Bachelor of Music in Piano Performance, Piano Pedagogy or Music Education R: Open only to graduate students in Music. Must satisfactorily pass an audition and interview as required by piano department.
Advanced piano pedagogy methods and materials for teaching piano at all levels. Conceptualizing and implementing a practical teaching project. Topics will vary.

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.

Descriptions—Music of Courses

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 an emphasis in voice. Approval of school. Audition required. Instruction in vocal techniques for students whose principal emphasis is not voice.

846. 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.

847. 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.

848. 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.

849. Piano Performance

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 required. Private instruction in piano.

850C. Harp

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 harp. Approval of school. Audition required. Private instruction in harp.

851. Voice

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 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 course. 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.

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 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 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. 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.
- 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.
- 870. Contrapuntal Techniques I**
Fall of odd 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.
- 871. Contrapuntal Techniques II**
Spring of even 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.
- 874. 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.
- 876. History of Music Theory**
Fall of odd 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 projects.
- 879. Rhythm in Music**
Fall. 3(3-0) R: Open only to graduate students in the School of Music.
Theory and analysis of large-scale rhythm and motion, including issues of temporal relationships, harmonic rhythm, phrase formation, and formal structure.
- 880. 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.
- 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.
- 882. 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. 1 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 students.
- 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 course. 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.
- 896. Recital Performance**
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.

Descriptions—Music of Courses

897. 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.

899. 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 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 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 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.

951. Voice

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 course. 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 the Music Performance major 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 course. 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. Tuba

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. 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 choral and instrumental music of all periods.

960. Seminar in Measurement in Music Education

Spring of odd 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.

NATURAL SCIENCE NSC

College of Natural Science

961. Seminar in Music Teacher Education
Fall of odd 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 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 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 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.

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 years. 2(2-0) R: Open only to graduate students in School of Music.
Current topics in music theory. Research paper required.

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.

998. Doctoral Music Composition
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 the Music Composition major.
Directed experience in composition 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.

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.

102. Preprofessional Freshman Seminar
Fall, Spring. 1(1-0)
Overview of human health care professions with emphasis on academic and nonacademic undergraduate preparation, campus resources, communication and computer skills, and collaborative learning.

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; Social Science; and Communication Arts and Sciences. R: Open only to students in the College of Agriculture and Natural Resources or College of Engineering or College of Natural Science or College of Communication Arts and Sciences or 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.