Description—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.

MUSIC MUS

School of Music
College of Arts and Letters

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. R: Audition required.
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. R: Audition required.
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.
Rehearsal and performance of broad range of choral literature chosen from medieval period to the present.

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. R: Audition required.
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 or 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.

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.
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.

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.

151C. 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.

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 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, Spring. 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, Spring. 1(1-0) 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, Spring. 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, Spring. 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
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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 161. 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 solfeggio (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 solfège 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) 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
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.

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. Musicanship II
Fall, 3(3-1) P: (MUS 181) Techniques of diatonic modulation and soprano harmonization. Chromatic techniques.

281. Musicanship III
Spring, 3(3-1) P: (MUS 289) 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 stu-
dents in the School of Music with a teacher certifi-
cation option and to students with a major in Com-
position and Music Theory. Advanced conducting and 
rehersal techniques as applied to music literature from 
each of the stylistic periods. 
SA: MUS 336

337. Conducting for Music 
Performance Majors 
Fall, Spring. 1H(1-1) P: (MUS 281) R: Open only to 
Music Performance majors. Beat patterns, clefs, and 
transpositions of string, wind, and percussion instru-
cments. Score reading and analysis. Rehearsal tech-
niques.

339. Teaching School Music 
Spring. 3(2-2) P: (MUS 260) R: Open only to stu-
dents in the School of Music with a teacher certifi-
cation option and to students with a Music teach-
ing 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 litera-
ture 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 ma-
jors in the School of Music. 
Intermediate and advanced methods and litera-
ture for teaching piano. Observation and teaching of 
piano students.

348. Piano Accompanying 
Fall, Spring. 1(0-3) A student may earn a maxi-
imum of 8 credits in all enrollments for this course. 
P: (MUS 149) C: MUS 150A or MUS 350A con-
currently, R: Not open to freshmen. Open only to 
students in the School of Music. 
Accompaniment of instrumental and vocal solo-
ists.

349. Piano Performance 
Fall, Spring. 1(0-2) A student may earn a maxi-
imum 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. Oboe 
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 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. Prin-
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 Mu-
sic 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. Stylist-
ic analysis of representative medieval, renaiss-
sance, baroque, and 18th and 19th century com-
positions.
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 M.O.J. course 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 studies.

448. Advanced Keyboard Methods and Literature I Fall. 2(2-0) P: (MUS 447) 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(2-0) 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 260) 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.

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 juniors and seniors 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(1-0) P: (MUS 389) 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.
P: 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.
P: Approval of school.
Special topics supplementing regular course offerings proposed by faculty for group study.

493. Music Therapy: Clinical Practicum
Fall, Spring, 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 235 and MUS 239 and TE 230 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.
P: 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, Spring, 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
Fall, 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, Spring, 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.
P: 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 9 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 9 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 9 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 9 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 graduate students in School of Music. Approval of school. Performance of pre-20th century chamber music under faculty direction.

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

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

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 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(2-0) R: Open only to graduate students in School of Music. 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. 3(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: MU 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. 3(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) P: MUS 830 recommended. 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 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(2-0) 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 881 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. P: Approval of school. 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.

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

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. Directed experience in recital performance in partial fulfillment of Plan B master's degree requirements.
**Descriptions—Music of Courses**

987. **Concert Conducting**
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 doctoral students in Music Education. Approval of school. Directed experience in concert conducting in partial fulfillment of Plan B master's degree requirements.

988. **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. Approval of school. Directed research in support of Plan B master's degree requirements.

989. **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 Music Performance. Approval of school. Directed research in partial fulfillment of Plan A master's degree requirements.

990. **Seminar in 18th-Century Music**
Spring of even years. 3(3-0) R: Open only to graduate students in School of Music. Research on topics in eighteenth-century music.

991. **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 nineteenth-century music.

992. **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 twentieth-century music.

993. **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 Education. Approval of school. Audition required. Private instruction in piano.

994. **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 Education. Approval of school. Audition required. Private instruction in voice.

995. **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 Education. Approval of school. Audition required. Private instruction in violin.

996. **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 Education. Approval of school. Audition required. Private instruction in cello.

997. **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 Education. Approval of school. Audition required. Private instruction in double bass.

998. **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 Education. Approval of school. Audition required. Private instruction in flute.

999. **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 Education. Approval of school. Audition required. Private instruction in oboe.

1000. **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 Education. Approval of school. Audition required. Private instruction in clarinet.

1001. **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 Education. Approval of school. Audition required. Private instruction in saxophone.

1002. **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 Education. Approval of school. Audition required. Private instruction in bassoon.

1003. **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 Education. Approval of school. Audition required. Private instruction in tuba.

1004. **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 Education. Approval of school. Audition required. Private instruction in euphonium.

1005. **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 Education. Approval of school. Audition required. Private instruction in tuba.

1006. **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 Music Education. Approval of school; audition required. Advanced band conducting, including core repertoire examination and execution, with emphasis on score analysis and preparation.

1007. **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 Music Education. Approval of school; audition required. Advanced conducting techniques for the orchestral literature of all periods for string, chamber, and symphony orchestras.

1008. **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 Music Education. Approval of school; audition required. Advanced conducting techniques for choral and instrumental music of all periods.

1009. **Seminar in Measurement in Music Education**
Spring of odd years. 3(3-0) R: Only to graduate students in Music Education or approval of school. Research on topics in cognitive, affective, and psychomotor measurement in music.
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 464. 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 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(2-0) 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.

Natural Science—Descriptions of Courses

NATURAL SCIENCE NSC

College of Natural Science

101. Preview of Science  
Fall. 1(1-0) Interdepartmental with Agriculture and Natural Resources; Engineering; Social Science; and Communication Arts and Sciences. 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. (1-0) 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: 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  
Fall, Spring. 2(2-0) P: NSC 291. 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.