401 Leadership: Training Management, Counseling, and Unit Management

Fall. 3(3-2) RB: (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 development doctrine. Laboratory includes practical experience in unit administration and training management.

Military Law, Ethics and Professionalism

Spring. 3(3-2) RB: (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.

Independent Study in Military Science 490

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

MUSIC

MUS

School of Music College of Arts and Letters

Chamber Music

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. Audition required.

Rehearsal and performance of a broad

range of chamber music

literature.

Philharmonic Orchestra 113

Fall, Spring. 1(0-3) A student may earn a maximum of 10 credits in all enrollments for this course. RB: High school and/or youth orchestra experience/or other college or university ensemble experience R: Audition required.

Rehearsal and performance of symphonic and operatic repertoire.

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

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.

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.

Symphony 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 of a broad range of wind and percussion literature.

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.

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

Collegiate Choir 123

Fall, Spring. 1(0-3) A student may earn a maximum of 10 credits in all enrollments for this course.

Rehearsal and performance of representative literature for mixed choir with emphasis on vocal jazz and contemporary styles of choral music. No vocal jazz experience necessary.

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.

Glee Club, Men and Women 125

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

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.

University Chorale 127

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.

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.

Jazz Combo 131

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 iazz.

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.

Class Instruction in Piano II

Spring. 1(1-1) RB: (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) R: Open only to students in the School of Music with an emphasis in voice. C: MUS 151 concurrently.

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:M: (MUS 143) R: Open only to students in the School of Music with an voice. MUS concurrently.

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:M: (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.

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 Hori

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.

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.

171 Class Instruction in Stringed Instruments

Fall. 1(1-1) R: Open only to Music majors.

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

172 Class Instruction in Stringed Instruments II

Spring. 1(1-1) P:M: (MUS 171) SA: MUS 161

Techniques for playing and teaching stringed instruments at the intermediate level and beyond.

173 Class Instruction in Percussion Instruments I

Fall, Spring. 1(1-1)

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

174 **Class Instruction in Percussion** Instruments II

Spring. 1(1-1) P:M: (MUS 173)

Techniques for playing and teaching percussion instruments at the intermediate level and beyond.

Understanding Music 175

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.

Introduction to Music Education

Fall, Spring. 2(2-1) P:M: (MUS 181) SA: MUS 260

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

178 Music Theory For Non Music Majors I

Fall. 2(2-1) R: Not open to music majors. Not open to students with credit in MUS

Basic components of both written and aural music. No previous musical knowledge assumed.

179 Music Theory For Non Music Majors II

Spring. 3(3-1) P:M: (MUS 178) R: Not open to music majors. Not open to students with credit in MUS 180 or MUS 181.

chords and chord progressions, Common harmonizing melodies, basic musical forms including popular and jazz forms, introductory compositional techniques.

180 **Fundamentals of Music**

Fall. 2(2-1) R: Open only to students in the School of Music.

Conceptual and notational presentation of the basic components of musical structure.

Musicianship I

Spring. 3(3-1) RB: (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.

Ear Training and Sight Singing II

Spring. 1(1-1) RB: (MUS 182)

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

Freshman Jazz Studies: Listening and 185 Assimilation

Fall. 2(2-0)

Introduction to jazz. Listening and appreciating jazz. Jazz styles and history.

200 Introduction to Music Theory

Fall. 1(1-1) R: Open only to graduate students in the School of Music. SA: MUS 800

Elements of music theory, with emphasis on voiceleading and harmonic analysis in diatonic and chromatic music.

201 **Aural Skills**

Spring. 1(1-1) R: Open only to graduate students in the School of Music. SA: MUS

Ear training in the areas of melody, harmony, and rhythm. Sight singing using the solfege system. Computer-aided drill programs.

History of Western Music to 1750

Fall. 3(3-0) P:M: (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.

History of Western Music Since 1750 Spring. 3(3-0) P:M: (MUS 181) RB: (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

Fall. 2(2-0) P:M: (MUS 181) R: Not open to

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

Beginning Jazz Improvisation II Spring. 2(2-0) P:M: (MUS 230) R: Not open to freshmen

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

Advanced Class Instruction in Piano I

Fall. 1(1-1) P:M: (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.

Advanced Class Instruction in Piano II

Spring. 1(1-1) P:M: (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.

German Diction for Singers 248

Fall. 1(1-1) P:M: (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.

French Diction for Singers

Spring. 1(1-1) P:M: (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.

Introduction to School Music 260

Fall, Spring. 2(2-1) P:M: (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:M: (MUS 270) R: Not open to freshmen.

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

Principles of Music Education

Spring. 3(2-2) P:M: (MUS 177) SA: MUS 339

Techniques for developing instructional and management skills for teaching music. On- and offcampus clinical experiences required.

280 Musicianship II

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

281 Musicianship III

Spring. 3(3-1) P:M: (MUS 280)

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

Advanced Ear Training and Sight Singing

Fall. 1(1-1) P:M: (MUS 183)

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

283 **Advanced Ear Training and Sight Singing**

Spring. 1(1-1) P:M: (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.

301 Advanced Jazz Musicianship I

Fall. 2(2-0) P:M: (MUS 231) R: or audition. Secondary dominants, borrowed chords and tritone substitutions. Transcriptions of recorded jazz solos.

Advanced Jazz Musicianship II 302

Spring. 2(2-0) P:M: (MUS 301)

scale relationships within II-V-I Pentatonic progressions, Aleatoric approaches to improvisation, non-traditional chord progressions, transcription of recorded jazz solos.

Advanced Jazz Musicianship III

Fall. 2(2-0) P:M: (MUS 302) Continuation of Advanced Jazz Musicianship II.

Advanced Jazz Musicianship IV

Spring. 2(2-0) P:M: (MUS 303) R: Open only to juniors or seniors in Music.

Continuation of Advanced Jazz Musicianship III.

335

Ensemble Conducting I
Fall. 2(2-2) P:M: (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:M: (MŪS 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. SA: MUS 336

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

336B Ensemble Conducting II: Choral

Spring. 2(2-2) P.M: (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. SA: MUS 336

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

337 Conducting for Music Performance Majors

Fall, Spring. 1(1-1) P:M: (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:M: (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) RB: 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) RB: 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:M: (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. RB: (MUS 149) 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.

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:M: (MUS 150A) R: Open only to majors in the School of Music. Approval of school.

Private instruction in piano.

350C Harp

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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:M: (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) RB: (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:M: (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**

Spring. 3(3-0) P:M: (MUS 381) 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.

20th Century Music Theory (W)

Fall. 3(3-1) P:M: (MUS 281) and completion of Tier I writing requirement.

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

400 Jazz Arranging and Composition I Fall. 2(2-0) P:M: (MUS 281)

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

401 Jazz Arranging and Composition II

Spring. 2(2-0) P:M: (MUS 400)

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.

410

Jazz History Fall. 3(3-0) P:M: (MUS 212)

Survey of jazz from its beginnings in African American aural traditions to the present.

413 **Keyboard Literature to Mid-19th Century**

Fall of even years. 2(2-1) P:M: (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.

Keyboard Literature since the Mid-19th 414

Spring of odd years. 2(2-1) P:M: (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:M: (MUS 181) R: Open only to majors in the School of Not to freshmen Music. open 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:M: (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.

Music of the 18th Century 420

Fall of even years. 2(2-0) P:M: (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 sociopolitical context. Aural and score analysis of representative works.

421 19th Century European-American Music Literature

Spring of odd years. 2(2-0) P:M: (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 instruments and masterworks in sociopolitical context. Aural and score analysis of representative works.

20th Century European and American Music Literature

Spring of even years. 2(2-0) P:M: (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.

History of Opera

Fall of odd years. 2(2-0) P:M: (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.

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.

Music of Asia, the Pacific, and the Near East

Fall. 2(2-0) RB: (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.

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.

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

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.

Jazz Pedagogy I Fall. 2(2-0) P:M: (MUS 281) R: Open only to juniors or seniors in Music.

Teaching theory and methodologies for jazz education in secondary schools.

Jazz Pedagogy II 439

Spring. 2(2-0) P:M: (MUS 438)
Teaching theory and methodologies for jazz education in secondary schools.

441 **Introduction to Computer Music**

Fall. 3(3-0) P:M: (MUS 281) R: Not open to freshmen or sophomores.

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

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:M: (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) RB: (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) RB: (MUS 448) R: Open only to majors in the School of Music.

Advanced piano literature for private lessons and classrooms.

Teaching Instrumental Music 455

Spring. 3(3-1) P:M: (MUS 177)
Develop skills necessary for teaching elementary and secondary band. Role of the instrumental music educator purpose of instrumental music in the schools. Clinical experiences in schools required.

Teaching Stringed Instruments 456

Fall. 3(2-2) P:M: (MUS 177)

Develop skills and knowledge for teaching string and orchestra programs in schools. Pedagogy, musicianship, curriculum, materials and program administration. Clinical experiences in schools

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.

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.

465 Music in Early Childhood

Fall, Spring. 2(2-0) P:M: (MUS 177) 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:M: (MUS 277) R: Open only to seniors or graduate students in the School of Music with a teacher certification option and to seniors or 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.

Teaching Choral Music 468

Spring. 3(2-2) P.M. (MUS 177)

Techniques for developing choral music programs. Curriculum, pedagogy, materials, and program administration. Clinical experiences in schools required.

469 **Teaching Secondary Classroom Music**

Fall. 3(3-1) P:M: (MUS 177)

Techniques for teaching general music and elective music classes in middle schools and high schools. Clinical experiences in schools required.

Music Therapy: Mental and Behavioral

Fall. 3(3-1) P:M: (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.

Music Therapy: Physical and Developmental Disabilities 471

Spring. 3(3-1) P.M. (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 Linguistics and Languages; Rom Languages. Administered by Department of 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: FoundationsFall. 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.

Psychology of Music: Research **Methodology and Application**

Spring. 2(2-0) P:M: (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:M: (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:M: (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:M: (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

Independent Study 490

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 15 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 15 credits in all enrollments for this course. R: Approval of

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

Music Therapy: Clinical Practicum

Fall, Spring, Summer. 1 credit. P:M: (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 Student Teaching in Music

Fall, Spring. 9 credits. Interdepartmental with Teacher Education. R: Open only to seniors in the Bachelor of Music Education major.

Supervised music teaching experience in schools. On-campus seminar required.

Research Methods and Materials in 830 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.

Seminar in Ethnomusicology 832

Fall of odd years. 3(3-0) al development of

ethnomusicology. Historical Theories and techniques of the discipline.

833 Fieldwork in Ethnomusicology

Fall of even years. 3(3-0)

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

Medieval Music

Fall. 3(3-0) RB: (MSU 830) 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.

Renaissance Music 836

Spring. 3(3-0) R: Open only to graduate students in School of Music.

European music, sacred and secular, from 1400 to 1600

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:M: (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

Secondary or Specialist Emphasis: Piano 844

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.

Secondary or Specialist Emphasis: Voice

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

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

Secondary or Specialist Emphasis: 846 String

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

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

Secondary or Specialist Emphasis: **Brass**

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

Instruction in trumpet, trombone, euphonium, or tuba.

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.

Private instruction in piano.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

867 **Professional Development in Music** Education

Fall, Spring. 3(3-0) P:M: (MUS 277)

Professional development through reflective study of philosophy, psychology, curriculum development, and research in music education.

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.

Contrapuntal Techniques II 871

Spring of even years. 3(3-0) RB: (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 TechniquesSpring. 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 Techniques linear of emphasizing the role of long-range voice-leading musical structure.

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) RB: (MUS 830) R: Open only to graduate students in School of Music

Principal western theories of music from Pythagoras 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) RB: (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 of even numbered years. 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.

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. RB: (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.

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 10 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to master's students in Performance. Approval of school.

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

897 **Concert Conducting**

Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to master's students in Performance. Approval of school.

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

898 Master's Research

Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 20 credits in all enrollments for this course. R: Open only to master's students in School of Music. Approval of school.

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

Master's Thesis Research 899

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.

Seminar in 19th-Century Music 936

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.

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.

Private instruction in piano.

951

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to doctoral students in Music Performance with an emphasis in voice.

Private instruction in voice.

952A

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.

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.

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.

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.

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.

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.

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.

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.

Private instruction in saxophone.

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.

Private instruction in bassoon.

Trumpet 954A

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.

Private instruction in trumpet.

954B

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.

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.

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.

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.

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.

Private instruction in percussion.

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.

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

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.

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.

Seminar in Measurement in Music Education

Spring of odd years. 3(3-0) RB: (MUS 864 and 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.

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.

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.

965 **Advanced Research Methods in Music** Education

Spring. 3(3-0) RB: (MUS 864) R: Open only to graduate students in College of Arts and Letters and in College of Education.

education research Music projects computerized statistical analysis.

Pedagogy of TheoryFall 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.

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

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

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

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

Doctoral Independent Study 990

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.

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.

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 24 credits. A student may earn a maximum of 99 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 24 credits. A student may earn a maximum of 99 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 24 credits. A student may earn a maximum of 99 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 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to doctoral students in the School of Music. Approval of school.

Doctoral dissertation research.

NATURAL SCIENCE

NSC

College of Natural Science

101 Preview of Science

Fall. 1(1-0) Interdepartmental with Agriculture and Natural Resources; Engineering; 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 credit. A student may earn a maximum of 4 credits in all enrollments for course. Interdepartmental Agriculture and Natural Resources: Engineering; Social Science; 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:M: (MTH 1825 or concurrently or MTH 116 or concurrently or MTH 132 or 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:M: (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:M: (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.

301 Science for Elementary Schools

Fall, Spring. 3(3-0) RB: Completion of an ISB and ISBL or ISP and ISPL course. Completion of the majority of complementary studies coursework in science and math. R: Open only to students in the Elementary Teacher Education Program.

Topics in earth science, life science, and physical science explored through discussion, demonstrations, readings, presentations, and field trips.

390 Special Problems

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

Faculty directed individualized study of an interdisciplinary problem.

401 Science Laboratories for Secondary Schools (W)

Fall. 4(2-6) R: Open only to seniors in the BA degree in Chemistry, or the BS degree in Biological Science-Interdepartmental or Earth Science-Interdepartmental or General Science-Interdepartmental or Physical Science-Interdepartmental major or their associated LBS majors.

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

448 Ecology, Law and Economics

Spring. 3(3-0) P:M: (EC 201)

Review and integrate principles of ecology, fundamentals of law, and principles of economics into a conceptual model that describes interrelations among the natural system, the economy, and the state. Analyze and assess the legal-economic natural resource and environmental policies in the context of the integrated model. Relate the ecology-law-economics model to emerging paradigms of sustainable development, ecological economics, industrial ecology, and the Natural Step.

490 Special Problems

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

Faculty directed individualized study of an interdisciplinary problem.

491 Selected Topics

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

Selected interdisciplinary topics not normally covered in other courses.

495 Capstone in Human Biology (W)

Fall, Spring. 2(2-0) P:M: Completion of Tier I writing requirement. R: Open only to seniors in the Human Biology or Lyman Briggs Human Biology major.

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

496 Directed Study in Human Biology

Fall, Spring, Summer. 1 to 3 credits. P:M: Completion of Tier I writing requirement. Directed studies in human biology.

497 Internship in Human Biology

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P:M: Completion of Tier I writing requirement.

Practical experience applying human biology training outside the classroom setting.

498 Research in Human Biology

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P:M: Completion of Tier I writing requirement.

Research in faculty laboratories

499 Research

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to juniors or seniors in the College of Natural Science with a teacher certification option.

Research in faculty laboratories. Oral and written presentations.

600 Special Problems for K-8 Teachers

Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Elementary teacher certification, 3 years teaching experience. Approval of department.

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