MILITARY SCIENCE

All University

041. General Military Science
Application of leadership techniques, the decision making process and staff planning. Military customs and traditions. Students will concurrently enroll in a selected non-Military Science course to fulfill military professional requirements.
A. Military Traditions—M S I
Winter. 0(0-1) Approval of department.
B. Advanced Drill and Ceremonies
Spring. 0(0-1) Approval of department or M S II standing.
C. Advanced Camp Preparation—M S III
Winter. 0(0-1) Approval of department or M S III standing.
D. Military Justice and Unit Administration
Fall. 0(0-1) Approval of department or M S IV standing.

121. Preview of Military Science
Fall, Winter, Spring, Summer. 1(1-0) Approval of department.
Role of the ROTC officer in the Army. Assists the student in planning a curriculum to satisfy requirements for a commission.

122. Marksmanship and Hunter Safety
Fall, Spring. 1(0-2) M S 121 or approval of department.
Small arms marksmanship and safety. Practical exercises on local firing ranges. Individual basic military marksmanship and the skills necessary to participate in a competitive or recreational shooting program.

221. Fundamentals of Military Art and Tactical Science
Fall. 1(0-1) M S 121, M S 041A, M S 122.
Contemporary military tactical doctrine, operations, principles of modern land warfare; analysis of historical examples, application of current doctrine to hypothetical situations.

223. Terrain Analysis and Land Navigation
Winter, Spring. 2(2-0) M S 121 and approval of department.
Military topographic maps, special maps, map profiles, specifications and uses. Terrain analysis for military tactical operations. Land navigation with the lentical and Silva compass.

324. Military Teaching
Fall, Winter. 4(4-2) Basic course, approval of department.
Methods of teaching manipulative skills to groups with varying educational backgrounds. Emphasis on determination of entry behavior, progress analysis, testing and test construction. Introduction to current teaching aids. Practical experience in simulated field situations is stressed during laboratory.

325. Military Management
Spring. 4(3-2) M S 324 or approval of department.
Task analysis approach to missions. The subject of tactics is used as a teaching vehicle for the managerial approach to the preparation and execution of missions. Emphasis is placed on physical and moral leadership during the laboratory sections.

MUSIC

College of Arts and Letters

100. Theory Review
Fall, Summer. 2(2-1) For majors who need theory review.
Basic course in fundamentals and ear training.

112. Chamber Music
Fall, Winter, Spring, Summer. 1(1-0) May reenroll for a maximum of 18 credits. Approval of department.
Performance of works for small ensembles.

118. Band
A. Marching Band
Fall. 1 credit. May reenroll for credit. Membership determined by audition.
The Marching Band participates at football games.
B. Spartan Brass
Winter. 1 credit. May reenroll for credit. Membership determined by audition.
The Spartan Brass participates at basketball games.
C. Concert Band
Fall, Winter, Spring. 1 credit. May reenroll for credit. Membership determined by audition. Public appearances are scheduled on campus each term.
D. Symphonic Band
Fall, Winter, Spring. 1 credit. May reenroll for credit. Membership determined by audition. A high level of achievement in performing ability is required. Concerts are scheduled both on and off campus.
E. Wind Ensemble
Fall, Winter, Spring. 1 credit. May reenroll for a maximum of 12 credits. Membership determined by audition. The highest level of performance is required.
The Wind Ensemble performs popular classics on and off campus.
F. Repertory Band
Fall, Winter, Spring, Summer. 1 credit. May reenroll for a maximum of 12 credits. Membership determined by audition. Public appearances are scheduled on campus each term.
134. **Brass Instruments**
Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 24 credits. Audition required.

153. **Woodwind Instruments**
Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 24 credits. Audition required.

155. **Percussion**
Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 24 credits. Audition required.

181. **Aural Harmony**
Fall, Winter, Spring, Summer. 1(0-2) MUS 181. Continuation of MUS 180.

182. **Aural Harmony**
Fall, Winter, Spring, Summer. 1(0-2) MUS 181. Continuation of MUS 181.

185. **Aural Harmony**
Fall, Winter, Spring, Summer. 1(0-2) MUS 185. Continuation of MUS 181.

190. **State Singers**
Fall, Winter, Spring, Summer. 1(0-4) May reenroll for a maximum of 12 credits. Membership determined by audition; ability to sight read. Four hours of rehearsals a week. Attendance at all rehearsals and public performances obligatory.

191. **Chorus**
Fall, Winter, Spring, Summer. 1(0-2-1.0) May reenroll for a maximum of 12 credits. Two and one-half hours of rehearsals per week. Attendance at all rehearsals and public performances obligatory.

192. **Glee Club, Men and Women**
Fall, Winter, Spring, Summer. 1(0-3) May reenroll for a maximum of 12 credits. Membership determined by audition. Three hours of rehearsals a week. Attendance at all rehearsals and public performances obligatory.

193. **University Chorale**
Fall, Winter, Spring, Summer. 1(0-4) Audition. Choral ensemble designed primarily for graduate and upper class undergraduate students. Representative literature for chamber chorale with emphasis on Renaissance, Baroque, and contemporary composers. Limited to 25 students.

194. **Jazz LABORATORY BAND**
Fall, Winter, Spring, Summer. 1(0-4) May reenroll for a maximum of 12 credits. Membership determined by audition. Practical experience in playing music in the jazz idiom. Techniques of rehearsing a stage band. Playing of student arrangements; performance of jazz composition and arrangements in concert.

200H. **Honors Work**
Fall, Winter, Spring, Summer. 1 to 16 credits. May reenroll for a maximum of 16 credits. Approval of department.

224. **History of Music**
Fall, Winter, Spring. 3(3-0) MUS 224. Music from ancient Greece through Romanesque and Gothic periods, concluding with the Renaissance, Greek theory and ethos; age of platysong; development of polyphony; instruments peculiar to period under question.

225. **History of Music**
Winter. 3(3-0) MUS 225. Baroque and classical periods. Special attention to fugue, opera, oratorio, sonata, and symphony. Analysis of characteristic works.

226. **History of Music**
Spring. 3(2-0) MUS 226. Romantic period, impressionism, and contemporary trends. Continuation of development of form, melody, rhythm, and tonality. Final examination is comprehensive, covering MUS 224, MUS 225 and MUS 226.

234. **Jazz Improvisation**
Fall, Winter, Spring. 2(2-0) May reenroll for a maximum of 12 credits. MUS 182 or approval of department; audition for Winter and Spring terms. Studies of the fundamentals necessary for the improvisation of knowledgeable jazz solos, including the areas of theory, styles, and transcriptions, as well as individual performances in class.
241. Advanced Class Piano
Fall, 1(0-2) MUS 143 or approval of department. For School Music Choral majors only.
Continuation of Class Piano MUS 143. Special emphasis given to developing practical skills at the piano for use in the public school classroom.

242. Advanced Class Piano
Winter, 1(0-2) MUS 241 or approval of department.
Continuation of MUS 241.

243. Advanced Class Piano
Spring, 1(0-2) MUS 242 or approval of department.
Continuation of MUS 242.

245. Music in Special Education
Fall, Winter, Spring, Summer. 3(3-0)
MUS 135. Special education majors.
Methods of teaching music in special education programs.

250. Introduction to School Music
Fall, Winter, Spring. 3(3-0) Non-majors.
An introduction to the field of school music. Study and discussion of historical background, current trends, and teaching responsibilities at all curricular levels.

271. Fundamentals of Music
Fall, Winter, Spring. 3(3-1) Non-majors.
Fundamentals of music to develop understanding and knowledge of scales and modes, key signatures, chord structures, chord progressions and non-harmonic tones.

272. Introduction to Music Literature I
Fall, Winter, Spring. 3(3-0) Non-majors.
An introduction to music in the Western tradition. The elements of musical expression and the techniques of musical analysis in connection with representative musical masterpieces of the Middle Ages, the Renaissance, the Baroque, the period of Classicism and Romanticism, and the twentieth century.

273. Introduction to Music Literature II
Fall, Winter, Spring. 3(3-0) Non-majors.
Continuation of MUS 272. Music of the eighteenth century. Among composers to be studied are: Vivaldi, D. Scarlatti, F. Couperin, Bach, Handel, Haydn and Mozart. Demonstrates the major types and modes of composition from the late Baroque to early romanticism and clarifies the stylistic trends of the time.

274. Music Literature in Live Performance
Fall, Winter, Spring. 2(0-2) May reenroll for a maximum of 6 credits.
Live performances and discussions of music masterpieces by music department faculty. Instruction will include guidance in study of musical styles, form, orchestral instruments.

275. Popular Music Styles
Winter. 3(3-0)
Style characteristics of prominent genres of popular music in twentieth century America. The evolution of popular musical taste.

276. Popular Music Styles
Spring of even-numbered years. 3(3-0)
A survey of style characteristics of prominent genres of popular music in the United States from 1950 to the present.

280. Advanced Harmony
Fall. 3(3-1) MUS 182.
Continuation of MUS 182, with added vocabulary and technique through nineteenth century harmony. Creative writing in small forms.

281. Advanced Harmony
Winter. 3(3-1) MUS 280.
Continuation of MUS 280.

282 Advanced Harmony
Spring. 3(3-1) MUS 281.
Continuation of MUS 281.

283. Advanced Aural Harmony
Fall, Winter, Spring. 1(0-2) MUS 185; MUS 280 concurrently.
Aural counterpart of advanced harmony. Drill in harmonic, melodic, and rhythmic dictation. Sight singing and keyboard harmony.

284. Advanced Aural Harmony
Fall, Winter, Spring. 1(0-2) MUS 283; MUS 281 concurrently.

285. Advanced Aural Harmony
Fall, Winter, Spring. 1(0-2) MUS 284; MUS 282 concurrently.

295. Opera Workshop
Fall, Winter, Spring. 1 to 2 credits. May reenroll for a maximum of 6 credits. Approval of department.
Repertoire coaching, diction, interpretation. Study and performance of entire operas and excerpts from the standard and contemporary repertoire; production of musicals (with Speech and Theatre Department); TV opera productions on Station WKAR.

308. Advanced Keyboard Tuning: Theory and Practice I
Fall. 3(1-3) MUS 210 or approval of department.

310. Advanced Keyboard Tuning: Theory and Practice II
Winter. 3(1-3) MUS 308.
Continuation of MUS 308.

311. Advanced Keyboard Tuning: Theory and Practice III
Spring. 3(1-3) MUS 309.
Continuation of MUS 309.

314. Church Service Playing
Fall, Winter, Spring, Summer. 2(2-0) May reenroll for a maximum of 6 credits. Three terms of pipe organ.
Instruction in adapting piano and orchestral accompaniment to organ; choosing organ and choir repertoire adaptable to church services; hymn playing, modulation, and ways to help unify service.

315. Music of Africa
Fall, Spring, Summer. 3(3-0)
Style and function of traditional and contemporary music and dance in African Cultures south of the Sahara, including a survey of musical instruments and performance of selected pieces.

320. Music Workshop
Summer. 1 to 6 credits. May reenroll for a maximum of 12 credits. Approval of department.

323. Carillon
Fall, Winter, Spring, Summer. 2 credits. May reenroll for credit. MUS 182; 6 terms or piano and approval of department.
Carillon playing technique, style and interpretation, arranging, adapting composition and improvisation. Survey of ensemble combinations with other instruments. Mechanical aspects of the instrument and bell acoustics. Carillon art and tradition, bell founders, literature and composers.

334. Composing and Arranging for Jazz Ensembles
Fall, Winter, Spring, Summer. 3(3-2) May reenroll for a maximum of 9 credits. MUS 182; approval of department.
Techniques of composition and arranging in jazz idiom for various instrumental and/or vocal ensembles. Analytical studies of scores, recorded examples and published sheet music. Writing for films and commercials.

336. Ensemble and Conducting
Winter. 3(1-4) MUS 335.
Continuation of MUS 335.

340. Class Instruments
Fall, Winter, Spring. 1(0-2) May reenroll for credit. Majors.
Study for one term of instruments not included among basic instruments. Not more than two may be studied at the same time. Class instruction in viola, string bass, flute, oboe, bassoon, French horn, trombone, and percussion.

345. Teaching Music in the Elementary School I
Fall, Winter, Spring. 3(3-0) MUS 345 and approval of department.
Principles of conducting correlated with application in ensemble of vocal and instrumental class instruction. Survey of vocal and instrumental ensemble literature suitable for school use. Individual conducting stressed.

346. Teaching Music in the Elementary School II
Winter, Spring. 3(3-0) MUS 345 and approval of department.
Continuation of MUS 345 with emphasis on upper elementary music. Approaches to music reading, harmonization and analytical listening.

347. Methods and Literature
Fall. Summer of odd-numbered years. 2(1-2) Six terms of study on applied instrument or voice, or approval of department.
Methods of teaching voice or instruments. Study of appropriate teaching literature.

348. Methods and Literature
Winter. 2(1-2) Six terms of study on applied instrument or voice, or approval of department.
Methods of teaching voice or instruments. Study of appropriate literature.
349. Methods and Literature
Spring. Summer. Odd-numbered years. Fall (1-2)
Six terms of study on applied instrument or voice, or approval of department.
Methods of teaching voice or instruments. Study of appropriate teaching literature.

350. Keyboard Instruments and Harp
Fall. Winter, Spring. Summer. 1 to 4 credits. May reenroll for a maximum of 24 credits.
six terms of MUS 150 or approval of department.
Continuation of MUS 150.

351. Voice
Fall. Winter. Spring. Summer. 1 to 4 credits. May reenroll for a maximum of 24 credits.
six terms of MUS 150 or approval of department.
Continuation of MUS 150.

352. Stringed Instruments
Fall. Winter. Spring. Summer. 1 to 4 credits. May reenroll for a maximum of 24 credits.
six terms of MUS 150 or approval of department.
Continuation of MUS 150.

353. Woodwind Instruments
Fall. Winter. Spring. Summer. 1 to 4 credits. May reenroll for a maximum of 24 credits.
six terms of MUS 150 or approval of department.
Continuation of MUS 150.

354. Brass Instruments
Fall. Winter. Spring. Summer. 1 to 4 credits. May reenroll for a maximum of 24 credits.
six terms of MUS 150 or approval of department.
Continuation of MUS 150.

355. Percussion
Fall. Winter. Spring. Summer. 1 to 4 credits. May reenroll for a maximum of 24 credits.
six terms of MUS 150 or approval of department.
Continuation of MUS 150.

356. Piano Sight Reading and Accompanying
Fall. Winter. Spring. 2(0-4) May reenroll for a maximum of 12 credits. Piano major or approval of department.

357. Piano Accompanying
Fall. Winter. Spring. 1(0-3) May reenroll for a maximum of 12 credits. Piano major or approval of instructor.
Instruction in the art of accompaniment. Accompaniment of instrumental and vocal soloists.

358. Studies in Style and Form
Fall. Summer. 2(2-1) MUS 282.
Analysis and creative writing of technical and structural practices in music of various periods, with special emphasis on the twelfth century.

359. Orchestration
Fall. Summer. 2(2-0) MUS 282.
Modern orchestral resources and scoring for various instrumental groups.

360. Orchestration
Winter. Summer. 2(2-0) MUS 283.
Continuation of MUS 282.

361. Opera
Winter. Odd-numbered years. 2(1-2)
Six terms of voice or approval of department.
History of opera from 1600 to the present.

362. Oratorio
Fall. Even-numbered years. Summer.
2(1-2) Six terms of voice or approval of department.
History of oratorio from 1600 to the present.

415A. Renaissance Music
Fall. 2 credits. MUS 182 or approval of department.

415B. 19th Century Music
Fall. 2 credits. MUS 182 or approval of department.

415C. Keyboard Music, Seventeenth through Eighteenth Centuries
Fall of even-numbered years. 2 credits. MUS 182 or approval of department.

415D. German Lieder
Fall of odd-numbered years. 2 credits. MUS 182 or approval of department.

415F. Organ Literature to 1700
Fall of odd-numbered years. 2 credits. MUS 182 or approval of department.

416A. Baroque Music
Winter. 2 credits. MUS 182 or approval of department.

416B. Twentieth Century Music, European
Winter. 2 credits. MUS 182 or approval of department.

416C. Piano Music, Nineteenth Century
Winter of odd-numbered years. 2 credits. MUS 182 or approval of department.

416E. French-Italian Art Song
Winter of even-numbered years. 2 credits. MUS 182 or approval of department.

416F. Organ Literature From 1700 to 1900
Winter of even-numbered years. 2 credits. MUS 182 or approval of department.

417A. Classical Music
Spring. 2 credits. MUS 182 or approval of department.

417B. Twentieth Century Music, American
Spring. 2 credits. MUS 182 or approval of department.

417C. Piano Music, Twentieth Century
Spring of odd-numbered years. 2 credits. MUS 182 or approval of department.

417E. English-American Art Song
Spring of even-numbered years. 2 credits. MUS 182 or approval of department.

417F. Organ Literature From 1900 to Present
Spring of even-numbered years. 2 credits. MUS 182 or approval of department.

418H. Honors Course in Music Literature
Fall. 2(2-0) MUS 226 and approval of department.
A tutorial class. Primary emphasis on instrumental and vocal music 1750-1900, but work may be directed towards the student's special field of interest.

419H. Honors Course in Music Literature
Winter. 2(2-0) MUS 226 and approval of department.
Continuation of MUS 418H.
420H. Honors Course in Music Literature
Spring, 2(2-0) MUS 326 and approval of department.
Continuation of MUS 419H.

421. Music and Worship
Fall, 3(0-0) MUS 296 or approval of department.
Relationship of music and liturgy to Christian worship. Traditional liturgies and forms of service of the Christian churches with emphasis on function and place of music in worship.

422. Hymnology
Winter, 3(3-0) MUS 226 or approval of department.
Greek and Latin hymns, canticles, and transition from psalmody into hymnody. Hymns and tunes studied with emphasis on their natural place in church year. Special attention to anthem settings of hymns and adaptation of traditional melodies, especially Gregorian.

423. Choral Repertoire for the Church
Spring, Summer, 3(3-0) Approval of department.
Choral literature for church choirs; emphasis on motets, anthems, responses, and materials for both youth and adult choirs.

424. Preparatory Musicology
Fall, 2(3-0) MUS 226, MUS 282.
A seminar dealing with research in various fields of musicology, including ethnomusicology.

425. Preparatory Musicology
Winter, Summer, 3(3-0) MUS 424.
Selected topics in music history from the ancient Greeks to 1600.

426. Ethnomusicology
Spring, Summer, 3(3-0) 6 credits in music, sociology, or anthropology, or approval of department.
Presentation of ethnomusicological ideologies and concepts emphasizing extra-musical activities (such as cultural and social phenomena) which condition and explain the existence of a musical structure.

427. Musical Cultures of the World
(Africa, America, Europe)
Fall, Summer, 3(3-0) Approval of department.
Musical expression and the related arts in Africa and America, focusing on history and historical influence, musical instruments and the relationship between the culture and artistic styles.

428. Musical Cultures of the World
(Africa, America, Europe)
Winter, Summer, 3(3-0) Approval of department.
Musical expression and related arts of Africa, America, and Europe, focusing on history and historical influence, musical instruments and the relationship between the culture and artistic styles.

429. Band Materials

430. Advanced Conducting
Spring, Summer, 2(2-0) Approval of department.
Continuation of MUS 434.

431. Brass and Woodwind Techniques
Spring, Summer, 2(1-2) Senior music majors. Materials and contemporary pedagogical practices of group wind instrumental instruction.

432. Fundamentals of Electronic Music
Fall, Summer, 2(2-0) MUS 282.
Instruction in the use of the Electronic Music Studio.

433. Fundamentals of Electronic Music
Winter, 2(1-2) MUS 440.
Supervised use of the Electronic Music Studio.

434. Composition in Electronic Music
Spring, Summer, 2(1-2) MUS 441.
Assignments of the Electronic Music Studio.

435. Recreational Music
Spring, Summer, 3(3-0) MUS 346.
Organization and administration of a community music program for adults; community chorus, orchestra, and band. Nonsymphonic instruments and their use in recreation. Summer camp and playground music. Recreational music as it is organized and used by industries.

436. Studio Teaching and Observation
Fall, 2(1-2) MUS 347, MUS 348, MUS 349.
Supervised studio teaching in classes and private lessons plus one-hour seminar each week.

437. Studio Teaching and Observation
Winter, 2(1-2) MUS 452.
Continuation of MUS 462.

438. Studio Teaching and Observation
Spring, 2(1-2) MUS 463.
Continuation of MUS 463.

439. Practicum: Sacred Music
Fall, Winter, Spring, 3(0-0) May reenroll for a maximum of 6 credits. MUS 314, MUS 336, MUS 345.
Supervised experience in all phases of sacred music by assisting at adult and junior choir rehearsals and church services, service planning, preparation and performance.

440. Influence of Music on Behavior
Fall, 3(3-0) Nine credits of psychology or approval of department.
Study of the physiological and psychological effects of music on behavior of human and nonhuman species. Related philosophical and psychological theory will be reviewed.

441. Music Therapy Techniques
Winter, 3(3-0) MUS 470.
Survey of procedures in music therapy; investigation of the role of music in treatment of mentally ill, mentally and physically handicapped; introduction to hospital organization.

442. Music Therapy Techniques
Spring, 3(3-0) MUS 471.
Continuation of MUS 471.

443. Advanced Studies in Style and Form
Fall, 2(2-1) MUS 380, MUS 381, MUS 382.
Continuation of MUS 382.

444. Advanced Studies in Style and Form
Winter, Winter, 2(2-1) MUS 480.
Continuation of MUS 480.

445. Advanced Studies in Style and Form
Spring, 2(2-0) MUS 481.
Continuation of MUS 481.

446. Composition
Fall, Winter, Spring, 2(2-0) May reenroll for a maximum of 8 credits. MUS 282 or approval of department.
Guided projects in creative writing.

447. Psychology of Music
Fall, Winter, Spring, Summer, 3(3-0) Approval of department. Interdepartmental with and administered by the Department of Psychology.
Basic research concepts and experimental methods in psychology of music research. Practical training in conducting experimental research of musical behavior.

448. Psychology of Music
Winter, Summer, 3(3-0) PSY 456. Interdepartmental with and administered by the Department of Psychology.
Basic research concepts and experimental methods in psychology of music research. Practical training in conducting experimental research of musical behavior.

449. Independent Study: Special Problems in Music Research
Fall, Winter, Spring, Summer, 1 to 4 credits. May reenroll for credit. Seniors and approval of department.
Individual problems in music research.

450. Opera Workshop
Fall, Winter, Spring, 1 to 2 credits. May reenroll for a maximum of 8 credits. Approval of department.
Practical experience in performance and production of opera and opera scenes.

451. Special Topics
Fall, Winter, Spring, Summer, 1 to 5 credits. May reenroll for a maximum of 10 credits if a different topic is taken. Juniors, or approval of department.
Offered on an experimental basis according to instructor availability and student interest.

452. Seminar in History of Music
Summer, 4(5-6) May reenroll for a maximum of 12 credits. Approval of department.
Critical study in depth of music literature and performance practices within historical perspective.

453. Seminar in Music Education
Spring of odd-numbered years, Summer of even-numbered years, 3(3-0) Approval of department.
Consideration of the historical and philosophical basis for music instruction in education.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>804</td>
<td>Seminar in Music Learning</td>
<td>3-3-0</td>
<td>Fall, Summer. Detailed analysis of the conditions of music learning for teachers of music including consideration of perception, maturation and concept formation.</td>
</tr>
<tr>
<td>805</td>
<td>Seminar in Music Curriculum</td>
<td>3-3-0</td>
<td>Winter, Summer. Development of goals, objectives, learning sequence and evaluative techniques for music learning at all instructional levels.</td>
</tr>
<tr>
<td>806</td>
<td>Seminar in Music Education Methodology</td>
<td>3-3-0</td>
<td>Spring of even-numbered years; Summer of odd-numbered years. Approval of department. Critical analysis of various methodologies in music teaching. Emphasis on the impact of methods and their applications to improvement of musical growth in performance, cognitive, and affective domains.</td>
</tr>
<tr>
<td>811</td>
<td>Introduction to Research in Music Education and Music Therapy</td>
<td>3-3-0</td>
<td>Fall, Summer. Approvals of department. Conducting and critically interpreting research in music education and music therapy. Library skills, experimental research, and statistical analysis are emphasized.</td>
</tr>
<tr>
<td>812</td>
<td>Research Problems in Music</td>
<td>Variable</td>
<td>Fall, Winter, Spring, Summer. Variable credit. Performance of works for small ensembles.</td>
</tr>
<tr>
<td>813</td>
<td>Chamber Music</td>
<td>1-1-0</td>
<td>Fall, Winter, Spring. May reenroll for a maximum of 6 credits. Approval of department. Performance of works for small ensembles.</td>
</tr>
<tr>
<td>815</td>
<td>Seminar in Chamber Music: 19th Century</td>
<td>2-2-0</td>
<td>Fall, Summer. Approval of department. Intensive study of selected chamber music works of the 19th century.</td>
</tr>
<tr>
<td>816</td>
<td>Seminar in Chamber Music: 19th Century</td>
<td>2-2-0</td>
<td>Winter, Summer. Approval of department. Intensive study of selected chamber music works of the 19th century.</td>
</tr>
<tr>
<td>817</td>
<td>Seminar in Chamber Music: 20th Century</td>
<td>2-2-0</td>
<td>Spring, Summer. Approval of department. Intensive study of selected chamber music works of the 20th century.</td>
</tr>
<tr>
<td>820</td>
<td>Music Workshop</td>
<td>1-0</td>
<td>Summer. 1 to 9 credits. May reenroll for a maximum of 9 credits. Approval of department.</td>
</tr>
<tr>
<td>821</td>
<td>Advanced Methods and Materials in Elementary Music</td>
<td>3-3-0</td>
<td>Fall, Winter, Spring. May reenroll for a maximum of 9 credits. If different topics are taken, Graduate students in Music Education or approval of department. Teaching methods and materials for special topics in elementary music, such as music literature, Orff, Kodaly, and integrated arts.</td>
</tr>
<tr>
<td>824</td>
<td>Research Methods and Materials in Music Learning</td>
<td>3-3-0</td>
<td>Fall, Winter, Summer. 3 or 4 credits. A critical examination of encyclopedias, indices, and other aids to research, and of the organization, presentation and documentation of research results.</td>
</tr>
<tr>
<td>830</td>
<td>Sixteenth Century Counterpoint</td>
<td>3-3-0</td>
<td>Fall of even-numbered years, Summer. MUS 482 or approval of department. Study and writing of counterpoint based upon the works of Orlando Lasso and Palestrina.</td>
</tr>
<tr>
<td>831</td>
<td>Sixteenth Century Counterpoint</td>
<td>3-3-0</td>
<td>Winter of odd-numbered years, Summer. MUS 830. Continuation of MUS 830.</td>
</tr>
<tr>
<td>832</td>
<td>Sixteenth Century Counterpoint</td>
<td>3-3-0</td>
<td>Spring of odd-numbered years, Summer. MUS 821. Continuation of MUS 831 to include a study of madrigal counterpoint.</td>
</tr>
<tr>
<td>834</td>
<td>Seminar in Composition</td>
<td>2-2-0</td>
<td>Fall, Winter, Spring. May reenroll for a maximum of 24 credits. Approval of department. Study of contemporary music with emphasis on compositional procedures.</td>
</tr>
<tr>
<td>835</td>
<td>Composition</td>
<td>1-1-0</td>
<td>Fall, Winter, Spring. 1 to 2 credits. May reenroll for a maximum of 24 credits. Approval of department. Advanced composition.</td>
</tr>
<tr>
<td>843</td>
<td>Pedagogy of Theory</td>
<td>3-3-0</td>
<td>Fall, Summer. Approval of department. Methods, content, and textbooks for teaching basic theory.</td>
</tr>
<tr>
<td>844</td>
<td>Pedagogy of Theory</td>
<td>3-3-0</td>
<td>Winter, Summer. Approval of department. Continuation of MUS 843 with emphasis upon new instructional media, and upon methods and materials in ear training and sight singing.</td>
</tr>
<tr>
<td>845</td>
<td>Pedagogy of Theory</td>
<td>3-3-0</td>
<td>Spring, Summer. Approval of department. Methods, content, and textbooks for teaching counterpoint, form, and orchestration.</td>
</tr>
<tr>
<td>846</td>
<td>Minor Instrument Study: String</td>
<td>1-1-0</td>
<td>Fall, Winter, Spring. May reenroll for a maximum of 12 credits. Secondary instrument for students enrolled in string specialist program.</td>
</tr>
<tr>
<td>847</td>
<td>Minor Instrument Study: Brass</td>
<td>1-1-0</td>
<td>Fall, Winter, Spring. May reenroll for a maximum of 12 credits. Secondary instrument for students enrolled in brass specialist program.</td>
</tr>
<tr>
<td>848</td>
<td>Minor Instrument Study: Woodwinds</td>
<td>1-1-0</td>
<td>Fall, Winter, Spring. May reenroll for a maximum of 12 credits. Secondary instrument for students enrolled in woodwind specialist program.</td>
</tr>
<tr>
<td>849</td>
<td>Minor Instrument Study: Piano</td>
<td>1-1-0</td>
<td>Fall, Winter, Spring. May reenroll for a maximum of 12 credits. Approval of department. Study of piano for students in majors other than applied music.</td>
</tr>
<tr>
<td>850</td>
<td>Applied Music</td>
<td>3-3-0</td>
<td>Fall, Winter, Spring. May reenroll for 3 credits for Applied Music majors; 2 credits for others. May reenroll for credit.</td>
</tr>
<tr>
<td>851</td>
<td>Minor Instrument Study: Voice</td>
<td>1-1-0</td>
<td>Fall, Winter, Spring. May reenroll for a maximum of 12 credits. Approval of department. Study of vocal techniques for students in majors other than applied music.</td>
</tr>
<tr>
<td>852</td>
<td>Choral Technique and Materials in Music</td>
<td>3-3-0</td>
<td>Spring. May reenroll for a maximum of 9 credits. Completion of undergraduate program in music education. Advanced course for further development of choral proficiency. Demonstrations of choral techniques, conducting by students, examination and evaluation of new materials.</td>
</tr>
<tr>
<td>860</td>
<td>Problems in Analysis</td>
<td>1-1-0</td>
<td>Fall, Winter, Spring. May reenroll for a maximum of 8 credits. Approval of department. An application of analytical procedures to school music repertoire.</td>
</tr>
<tr>
<td>880</td>
<td>Materials of Music</td>
<td>1-4-0</td>
<td>Fall, Winter, Spring. May reenroll for a maximum of 3 credits. MUS 882. Correlation of the areas of music theory as a basis for the study of 19th and 20th century music.</td>
</tr>
<tr>
<td>881</td>
<td>Materials of Music</td>
<td>1-4-0</td>
<td>Fall, Winter, Spring. 1 to 4 credits. MUS 881. Continuation of MUS 880.</td>
</tr>
<tr>
<td>889</td>
<td>Master's Thesis Research</td>
<td>Variable</td>
<td>Fall, Winter, Spring. Variable credit. Approval of department.</td>
</tr>
<tr>
<td>903</td>
<td>Proseminar in Music Education</td>
<td>3-3-0</td>
<td>Fall, Winter, Spring. May reenroll for a maximum of 9 credits. Approval of department. Problems of music education with study of and readings from aesthetics, philosophy, measurement evaluation, and teacher training.</td>
</tr>
<tr>
<td>915</td>
<td>Medieval Music</td>
<td>3-3-0</td>
<td>Fall. Approval of department. Investigation of various developments in European music to middle of fifteenth century. Some attention given to Gregorian Chant as well as to various types of secular Monody; but greater stress is laid on the forms and styles of Polyphonic music.</td>
</tr>
<tr>
<td>916</td>
<td>Renaissance Music</td>
<td>3-3-0</td>
<td>Winter. Approval of department. Investigation of developments in European music from 1450 to 1600; tracing developments in both sacred and secular music.</td>
</tr>
</tbody>
</table>
917. Music of the 17th Century  
Spring. 3(3-0) Approval of department.  
Instrumental and vocal music of Early Baroque period.

918. Music of the 18th Century  
Fall. 3(3-0) Approval of department.  
Intensive study of selected topics in 18th century music.

919. Music of the 19th Century  
Winter. 3(3-0) Approval of department.  
Intensive study of selected topics in 19th century music.

920. Music of the 20th Century  
Spring. 3(3-0) Approval of department.  
Intensive study of selected topics in 20th century music.

924. Seminar in Musicology  
Fall, Winter, Spring. 3 credits. May reenroll for credit. Approval of department.

943. Survey of the History of Theory  
Winter. 2(2-0) Approval of department.  
Significant theoretical treatises from the 6th century B.C. to the early 20th century.

954. Administration of Music Education Programs  
Spring of odd-numbered years. 3(3-0) Approval of department.  
Techniques for administering school music and higher education music programs.

955. Current Tendencies in Music Education  
Winter of even-numbered years. 3(3-0) Approval of department.  
Current trends and practices in public school music education.

956. Advanced Research Techniques in Music  
Winter. 3(3-0) Approval of department.  
Selected research techniques in music education with emphasis on experimental design and computerized data analysis.

960. Analytical Studies  
Fall. 3(3-0) Approval of department.  
Analysis of melody, harmony, rhythm, color, texture, counterpoint, and form in music from the thirteenth century through the late sixteenth/early seventeenth century.

963. Schenker Analysis  
Fall. 2(2-0) Approval of department.  
Analytical techniques and concepts of Heinrich Schenker. Examination of his sketches and writings, reading about him, and analysis of music using his techniques.

964. Set-Theory Analysis of Atonal Music  
Spring. 2(2-0) Approval of department.  
Set-Theory principles and their application to the analysis of atonal music.

970. Contrapuntal Techniques  
Fall of odd-numbered years, Summer. 3(3-0) MUS 482 or approval of department.  
Advanced contrapuntal practice from the sixteenth century to the present.

971. Contrapuntal Techniques  
Winter of even-numbered years, Summer. 3(3-0) MUS 970.  
Continuation of MUS 970.

979. Doctoral Dissertation Research  
Fall, Winter, Spring, Summer.  
Variable credit. Approval of department.

972. Human Biopsychosocial Evolution (N)  
Fall, Winter, Spring. 4(3-2)  
Current understanding of human beings and their beliefs as products of biological and cultural evolution. Implications for the future of humanity.

973. Time and Change in Nature (N)  
Fall, Winter, Spring, Summer. 4(3-2)  
A-Man's attempts to explain the present in terms of past events are explored through selected topics from the life sciences and earth sciences. Stresses the role of controversy in science and the nature of scientific evidence.

974. Color, Texture, Rhythm, and Form in Nineteenth Century Music  
Winter. 2(2-0) Approval of department.  
Analysis of melody, harmony, rhythm, color, texture, counterpoint, and form in music of the nineteenth century.  

975. The Nature and Continuity of Life (N)  
Fall, Winter, Spring, Summer. 4(3-2)  
A-The development and testing of scientific concepts as examples of man's attempt to understand the world in which he lives. Selected topics from the life sciences illustrate the nature of scientific investigation.

B-Theories of the origin, development and structure of life and the universe of which it is a part. Examination of contemporary problems associated with defining life and death.

C-Consideration of social and ethical issues relating to our increasing control of reproduction and heredity. Reproduction and heredity from molecular, cellular and organismic perspectives, including human structure and function.

D-The nature of living things, contrasting various scientific and non-scientific views. The implications of the modern scientists understanding of life for our beliefs and values.

NATURAL SCIENCE N S

115. The Nature and Continuity of Life (N)  
Fall, Winter, Spring. 4(3-2)  
A-The development and testing of scientific concepts as examples of man's attempt to understand the world in which he lives. Selected topics from the life sciences illustrate the nature of scientific investigation.

B-Theories of the origin, development and structure of life and the universe of which it is a part. Examination of contemporary problems associated with defining life and death.

C-Consideration of social and ethical issues relating to our increasing control of reproduction and heredity. Reproduction and heredity from molecular, cellular and organismic perspectives, including human structure and function.

D-The nature of living things, contrasting various scientific and non-scientific views. The implications of the modern scientists understanding of life for our beliefs and values.

192. Life, Its Environment (N)  
Fall, Winter, Spring. 4(3-2)  
Natural ecological systems and the impact of human biological and cultural development on them. Examination of specific ecological problems and the role of science in seeking solutions.

193. Change and Culture in the 20th Century (N)  
Fall, Winter, Spring. 4(3-2)  
Controversies concerning interpretation of modern scientific concepts such as evolution, uncertainty and relativity are discussed in terms of developing a personal philosophy.

194. Race, The Evolution of an Idea (N)  
Fall, Winter, Spring. 4(3-2)  
N S 115 or approval of department.  
Human races and evolution. The biological concept of race based on the theories of the gene, evolution, and natural selection.