Courses are subject to revision and final approval.

**MICROBIOLOGY AND PUBLIC HEALTH**

99*. Seminar
Fall, Spring. 1(1-0) May reenroll for a maximum of 6 credits. R: Graduate students
QA: 800

999*. Master's Thesis Research
Fall, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 36 credits. R: graduate students
QA: MPP 999

991*. Current Topics in Microbiology
Fall, Spring. 1 to 3 credits. May reenroll for a maximum of 6 credits. Topics are selected from taxonomic subdivisions such as bacteriology, virology, cell biology, immunology and from interdisciplines such as genetics, physiology, molecular biology.
QA: MPP 900

999*. Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 30 credits. R: graduate students
QA: MPP 999

**MILITARY SCIENCE**

MS

101. Leadership: The Military Profession
Fall, Spring, Summer. 1(1-1)
Analysis of military profession from several academic perspectives. Technical, ethical, and personal ramifications of leadership. Introduction to military leadership. Lab introduces military skills.
QA: MS101 MS102

102. Leadership: Land Navigation
Fall, Spring. 1(1-1)
Military topographic and special maps: intersection, resection, modified resection, and polar coordinates. Tactical operation overlaps. Preview of small unit leader's role in the Army. Lab: use of latitudinal compass. QA: MS103 MS203

201. Leadership Assessment Program, the Military Leader
Fall, Spring. Summer. 1(1-1)
Individual leadership development using standardized assessment technology. Administration, personal relations, and decision making. Military writing and professional obligations. Lab includes rappelling and marksmanship.
QA: MS103 QA: MS201 MS202

202. Leadership: First Aid/fitness Training
Fall, Spring, Summer. 1(1-1)
Emergency first aid including casualty evaluation, lifesaving measures, CPR, and environmental injury prevention. Leader's role in implementing Army Physical Fitness Program. Individual and group fitness programs. Lab: hands on leadership training. QA: MS201 QA: MS103 MS201

301. Leadership: Command and Control Communication
Fall, Spring, Summer. 3(3-2)
P: MS 202
Wire and radio communications for tactical operations. Encryption/decryption, use of codes, and electronic warfare. Theoretical and models of behavioral sciences for leadership. Lab emphasizes communication skills.
QA: MS 202 QA: MS301 MS302

302. Leadership: Small Unit Tactics
Fall, Spring, Summer. 3(2-2)
P: MS 301
Military topographic and special maps: intersection, resection, modified resection, and polar coordinates. Tactical operation overlaps. Preview of small unit leader's role in the Army. Lab: use of latitudinal compass.
QA: MS301 QA: MS302 MS303

401. Leadership: Management
Fall, Spring, Summer. 3(2-3)
P: MS 305
Army training personnel administration and logistics systems, and the leader's role as a trainer and effective manager. Oral and written communication. Leadership assessment and development. Lab: practical experience in unit administration.
QA: MS302 QA: MS401 MS402

402. Military Law, Ethics and Professionalism
Spring, Summer. 3(2-3)
P: MS 401
Military legal system. Application of military justice. Fundamental values and principles of conduct as the profession of arms. Development of subordinates and the role of noncommissioned officers. Lab includes leadership development assessment.
QA: MS401 QA: MS402 MS403

490. Independent Study in Military Science
Fall, Spring, Summer. 1 to 4 credits. R: Open only to juniors and seniors. Approval of department.
Individual research in areas related to military science.
QA: MS499

**MUSIC**

MUS

112*. Chamber Music
Fall, Spring. 1(0-2) May reenroll for a maximum of 10 credits. R: Audition required.
Rehearsal and performance of broad range of chamber music literature.
QA: MUS 112

114*. Marching Band
Fall, 1(0-9) May reenroll for a maximum of 6 credits. R: Audition required.
Rehearsal and performance of broad range of marching band literature at football games.
QA: MUS 114A

115*. Spartan Brass
Spring. 1(0-2) May reenroll for a maximum of 8 credits. R: Audition required.
Rehearsal and performance of broad range of brass literature at basketball and hockey games.
QA: MUS 115B

116. Campus Band
Fall, Spring, 1(0-3) May reenroll for a maximum of 10 credits.
Rehearsal and performance of broad range of band literature chosen from baroque period to the present.
QA: MUS 116F

117*. Concert Band
Fall, Spring. 1(0-3) May reenroll for a maximum of 10 credits. R: Audition required.
Rehearsal and performance of broad range of wind literature from various historical periods and styles.
QA: MUS 117C

118*. Wind Symphony
Fall, Spring. 1(0-5) May reenroll for a maximum of 10 credits. R: Audition required.
Rehearsal and performance of broad range of wind literature from various periods and styles.
QA: MUS 118F

120*. Symphony Orchestra
Fall, Spring. 1(0-5) May reenroll for a maximum of 10 credits. R: Audition required.
Rehearsal and performance of symphonic and operatic repertoire.
QA: MUS 123A

121*. Chamber Orchestra
Fall, Spring, 1(0-4) May reenroll for a maximum of 10 credits. R: Audition required.
Rehearsal and performance of representative chamber works of baroque, classic and contemporary composers.
QA: MUS 123B

122*. Collegiate Choir
Fall, Spring, 1(0-5) May reenroll for a maximum of 10 credits. R: Audition required.
Rehearsal and performance of representative literature for mixed choir with emphasis on renaissance, baroque, classical, romantic, and contemporary composers.
QA: MUS 189

123*. Choral Union
Fall, Spring, 1(0-2) May reenroll for a maximum of 10 credits. R: Audition required.
University and community chorus. One evening rehearsal per week, culminating in performance of a major work with orchestra.
QA: MUS 191

125. Glee Club, Men and Women
Fall, Spring, 1(0-3) May reenroll for a maximum of 10 credits.
Rehearsal and performance of broad range of choral literature chosen from medieval period to the present.
QA: MUS 125

126*. State Singers
Fall, Spring, 1(0-4) May reenroll for a maximum of 10 credits. R: Audition required.
Mixed choir performing music from all periods.
QA: MUS 190

127*. University Choirs
Fall, Spring, 1(0-4) May reenroll for a maximum of 10 credits. R: Audition required.
Mixed chamber choir for experienced singers performing representative literature from all periods.
QA: MUS 193

129*. Percussion Ensemble
Fall, Spring, 1(0-3) May reenroll for a maximum of 10 credits. R: Audition required.
Rehearsal and performance of representative works for percussion and mixed ensembles.
QA: MUS 132

130*. Jazz Band
Fall, Spring, 1(0-4) May reenroll for a maximum of 10 credits. R: Audition required.
Rehearsal and performance in large jazz ensemble. Literature from classic bands of Ellington and Basie to contemporary composers.
QA: MUS 195

E-126 Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.