

**MICROBIOLOGY AND PUBLIC HEALTH**

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

QA: 800

**899\* Master's Thesis Research**  
 Fall, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 24 credits.  
 R: graduate students

QA: MPH 899

**991\* Current Topics in Microbiology**  
 Fall, Spring. 1 to 3 credits. May reenroll for a maximum of 6 credits.  
 R: graduate students

Topics are selected from taxonomic subsciences such as bacteriology, virology, cell biology, immunology and from from transecting subdisciplines such as genetics, physiology, molecular biology and ecology.  
 QA: MPH 900

**999\* Doctoral Dissertation Research**  
 Fall, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 36 credits.  
 R: graduate students

QA: MPH 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 officership. 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 overlays. Preview of small unit leader's role in the Army. Lab: use of lensatic compass.  
 QA: MS102 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.  
 QP: 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.  
 QP: MS201 QA: MS103 MS201

**301. Leadership: Command and Control Communication**  
 Fall, Spring, Summer. 3(2-3)  
 P: MS 202.

Wire and radio communications for tactical operations. Encryption/decryption, use of codes, and electronic warfare. Theories and models of behavioral sciences for leadership. Lab emphasizes communication skills.  
 QP: 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 overlays. Preview of small unit leader's role in the Army. Lab: use of lensatic compass.  
 QP: MS301 QA: MS302 MS303

**401. Leadership: Management**  
 Fall, Spring, Summer. 3(2-3)  
 P: MS 302.

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.  
 QP: 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 in the profession of arms. Development of subordinates and the role of noncommissioned officers. Lab includes leadership development assessment.  
 QP: 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 118A

**115\*. Spartan Brass**  
 Spring. 1(0-2) May reenroll for a maximum of 6 credits.  
 R: Audition required.

Rehearsal and performance of broad range of brass literature at basketball and hockey games.  
 QA: MUS 118B

**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 118F

**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 118C

**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 118E

**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 133A

**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 133B

**123\*. Collegiate Choir**  
 Fall, Spring. 1(0-3) 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

**124\*. 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 192

**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 Chorale**  
 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 mallet ensembles.  
 QA: MUS 112

**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