### 892. Seminar

Fall, Spring. 1(1-0) A student may earn a maximum of 6 credits in all enrollments for this

R: Open only to graduate students in College of Agriculture and Natural Resources, College of Engineering, College of Human Medicine, College of Natural Science, College of Osteopathic Medicine, or College of Veterinary Medicine.
Student review and presentation of selected topics in

microbiology and public health. QA: MPH 800

### Master's Thesis Research 899.

Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to graduate students in Microbiology and Public Health.

QA: MPH 899

### Topics in Microbiology 99 I.

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for

This course.

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

### 999. Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 99 credits in all enrollments for this course.

R: Open only to graduate students in Microbiology and Public Health.

QA: MPH 999

# MILITARY SCIENCE

MS

# Department of Military Science Office of the Provost

# Leadership: The Military Profession Fall, Spring, Summer. 1(1-1)

Analysis of military profession from several academic Analysis of initially profession from several adademic perspectives. Technical, ethical, and personal ramifications of officership. Introduction to military leadership. Lab introduces military skills.

QA: MS 101, MS 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 com-

pass. QA: MS 102, MS 203

# Leadership Assessment Program, the Military Leader Fall, Spring, Summer. 1(1-1) 201.

Individual leadership development using standardized assessment technology. Administration, personal relations, and decision making. Military writing and professional obligations. Lab includes rappelling and marksmanship. QP: MS 103 QA: MS 201, MS 202

## 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: MS 201 QA: MS 103, MS 201

### 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. Theories and models of behavioral sciences for leadership. Lab emphasizes communication skills.

QP: MS 202 QA: MS 301, MS 302

### Leadership: Small Unit Tactics 302.

Fall, Spring, Summer. 3(3-2) P: MS 301.

Military topographic and special maps: interesection, resection, modified resection, and polar coordinates. Tactical operation overlays. Preview of small unit leader's role in the Army. Lab. use of lensatic com-

QP: MS 301 QA: MS 302, MS 303

# 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 effec-tive manager. Oral and written communication. Leadership assessment and development. Lab: practical experience in unit administration. QP: MS 302 QA: MS 401, MS 402

# Military Law, Ethics and Professionalism 402.

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: MS 401 QA: MS 402, MS 403

### 490. Independent Study in Military Science

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

R: Open only to juniors and seniors. Approval of department.

Individual research in areas related to military science. QA: MS 499

# MUSIC

MUS

# School of Music College of Arts and Letters

### 112. Chamber Music

Fall, Spring. 1(0-2) A student may earn a maximum of 10 credits in all enrollments for this

R: Audition required.

Rehearsal and performance of broad range of chamber music literature. QA: MUS 112

114.

Marching Band Fall. 1(0-9) A student may earn a maximum of 6 credits in all enrollments for this course. R: Audition required.

Rehearsal and performance of broad range of marching band literature at football games. QA: MUS 118A

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. QA: MUS 118B

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

Rehearsal and performance of broad range of band literature chosen from baroque period to the present.  $\it QA:MUS~118F$ 

### 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. **QA: MUS 118C** 

118. Wind Symphony

Fall, Spring. 1(0-5) 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. QA: MUS 118E

## Symphony Orchestra

Fall, Spring. 1(0-5) 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. QA: MUS 133A

### 121. Chamber Orchestra

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 representative chamber works of baroque, classic and contemporary compos-

QA: MUS 133B

# Collegiate Choir

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

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

# Choral Union

Fall, Spring. 1(0-2) A student may earn a maximum of 10 credits in all enrollments for this

R: Audition required.
University and community chorus. One evening rehearsal per week, culminating in performance of a major work with orchestra. QA: MUS 191

# Glee Club, Men and Women

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

course.

Rehearsal and performance of broad range of choral literature chosen from medieval period to the present. QA: MUS 192

# 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. QA: MUS 190

# University Chorale

Fall, Spring. 1(0-4) A student may earn a maximum of 10 credits in all enrollments for this

course. R: Audition required.

Mixed chamber choir for experienced singers performing representative literature from all periods. QĂ: MUS 193

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

R. Audition required.

Rehearsal and performance of representative works for percussion and mallet ensembles. QA: MUS 112