

609. Hematology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Data collection, problem solving, and management related to common hematologic disorders of children and adults.
QP: MED 608 QA: MED 609

610. Oncology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Data collection, problem solving and management of prevalent cancers in children and adults.
QP: MED 608 QA: MED 610

611. Cardiology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Evaluation of patients with cardiac diseases. Special diagnostic procedures including cardiac cuticularization, phonocardiography, echocardiography, and electrocardiography.
QP: MED 608 QA: MED 611

612. Nephrology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Integrated concepts of renal physiology and pathophysiology of renal disease. Clinical experience.
QP: MED 608 QA: MED 612

613. Dermatology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Experience in a dermatologist's office to develop clinical, observational, and diagnostic skills in dermatology.
QP: MED 608 QA: MED 613

614. Medical Chest Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Chest diseases: tuberculosis, diagnosis, pulmonary function, and physiology. Experience in ambulatory and hospital settings.
QP: MED 608 QA: MED 614

615. Gastroenterology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Experience with gastrointestinal problems in ambulatory and hospital settings. Emphasis on continuity and comprehensive care.
QP: MED 608 QA: MED 615

616. Allergy Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Ambulatory and hospital based experience to develop diagnostic skills in allergy. Review of basic therapeutics related to allergic diseases.
QP: MED 608 QA: MED 616

617. Neurology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Office and inpatient experience. Evaluation and management of neurological disease.
QP: MED 608 QA: MED 617

618. Infectious and Immunologic Diseases Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Clinical problems in infectious and immunologic diseases. Integrated basic science input is provided in seminars.
QP: MED 608 QA: MED 618

622. Endocrinology and Metabolism Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Clinical and/or clinical-research clerkship: endocrine diseases, electrolyte abnormalities, endocrine hypertension, or diabetes mellitus.
QP: MED 608 QA: MED 620

626. Physical Medicine and Rehabilitation Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Developing regimens for physical medicine procedures, occupational therapy and rehabilitation skills.
QP: MED 608 QA: MED 626

627. Rheumatology Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Combined ambulatory and hospital consultative clerkship for diagnostic skills in areas of rheumatic diseases.
QP: MED 608 QA: MED 627

628. Advanced Internal Medicine
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Clinical experiences to refine diagnostic and management skills in general internal medicine.
QP: MED 608 QA: MED 628

630. Emergency Medicine Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Clinical diagnosis and treatment of emergencies seen in community emergency departments.
QP: MED 608 QA: MED 630

632. Occupational Medicine Clerkship
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
P: MED 608. R: Open only to graduate-professional students in College of Human Medicine.
Health problems of chemical and mineral dust, radiation, and repetitive trauma.
QP: MED 608 QA: MED 632

MICROBIOLOGY MIC

**Department of Microbiology
College of Human Medicine
College of Natural Science
College of Osteopathic Medicine
College of Veterinary Medicine**

101. Preview of Microbiology
Fall. 1(1-0)
R: Open only to freshmen and sophomores. Not open to students with credit in a microbiology course.
Overview of modern microbiology, emphasizing impact on society.
QA: MPH 101

205. Allied Health Microbiology
Spring. 3(3-0)
P: CEM 141 or CEM 151.
Microbial structure, function, growth, death, and control related to medical and public health concerns. Host-parasite relationships, immunology, action of major pathogenic groups. Commercial applications of microbiology.
QP: CEM 141

206. Allied Health Microbiology Laboratory
Spring. 1(0-2)
P: MPH 205 or concurrently.
Fundamentals of microbiological techniques including microscopy, staining, aseptic technique, culture media, identification, control with disinfectants and antibiotics, and safety in the microbiological laboratory.
QP: MPH 200

301. Introductory Microbiology
Spring. 3(3-0)
P: CEM 251.
Fundamentals of microbiology, including microbial structure and function, nutrition and growth, death and control. Importance and applications of major microbial groups.
QP: CEM 241 QA: MPH 301, MPH 303

302. Introductory Microbiology Laboratory
Spring. 1(0-3)
P: MPH 301 or concurrently.
Methodology of microbiology: microscopy, staining, aseptic technique, culture media, quantification, and laboratory safety.
QP: MPH 301 or MPH 303 QA: MPH 302, MPH 304

401. Prokaryotic Physiology and Genetics
Fall. 4(4-0)
P: MPH 301; BCH 461 or concurrently.
Prokaryotic cell structure and function, macromolecular synthesis and control, unique metabolic pathways, and genetics of bacteria and bacteriophages.
QP: MPH 303 or MPH 301, BCH 451 QA: MPH 407, MPH 421

403. Eukaryotic Cells and Viruses
Spring. 4(4-0)
P: BCH 462 or concurrently.
Molecular analyses of eukaryotic cell structure and function, growth and division. Cell-cell communication and signalling. Virus structure and replication strategies, virus-cell interactions.
QP: MPH 303, BCH 453 QA: MPH 403, MPH 413

408. Advanced Microbiology Laboratory
Fall. 3(1-6)
P: MPH 302; MPH 401 or concurrently. R: Open only to Microbiology majors.
Microbiological techniques and procedures to study physiology and genetics of bacteria and bacteriophages. Collection and critical assessment of quantitative data and written communication of results.
QP: MPH 303 QA: MPH 304, MPH 306

425. Microbial Ecology
Spring. 3(3-0) Interdepartmental with Crop and Soil Sciences.
P: MPH 301.
Microbial population and community interactions. Microbial activities in natural systems, including associations with plants or animals.
QP: MPH 301 or MPH 303 QA: MPH 426, MPH 426A

**Descriptions—Microbiology
of
Courses**

- 426. Biogeochemistry**
Summer. 3 credits. Given only at W.K. Kellogg Biological Station. Interdepartmental with Geological Sciences, Crop and Soil Sciences, and Zoology.
P: BS 110 or BS 111, CEM 143 or CEM 251.
Integration of the principles of ecology, microbiology, geochemistry, and environmental chemistry. Societal applications of research in aquatic and terrestrial habitats.
QP: BS 210 or BS 211 or BS 212, CEM 143 or CEM 241 or CEM 351
- 445. Basic Biotechnology**
Fall. 3(3-0)
P: MPH 205 or MPH 301.
Growth and genetic improvement of industrial microorganisms. Fermentation fundamentals. Specific classical and recombinant-based bioprocesses and bioconversions of commercial importance.
QP: MPH 200 or MPH 301 or MPH 303 QA: MPH 445
- 451. Immunology**
Fall. 3(3-0)
P: MPH 403.
Structure and function of molecules involved in immune responses. Quantitation of immune responses and cellular participants. Immunologic abnormalities. Immunotherapy. Experimental approaches to dissection of immune functions.
QP: BS 211 QA: MPH 427
- 461. Molecular Pathogenesis**
Spring. 3(3-0)
P: MPH 401, MPH 403 or concurrently.
Molecular basis of microbial virulence. Nature of determinants and their role in overcoming host defense mechanisms.
QP: MPH 407, MPH 413 QA: MPH 429
- 463. Medical Microbiology**
Fall. 3(3-0)
P: MPH 301. R: Open only to Microbiology or Medical Technology or Clinical Laboratory Sciences majors.
Properties of pathogenic bacteria and viruses and their mechanisms of pathogenicity.
QP: MPH 301 or MPH 303 QA: MPH 461
- 464. Diagnostic Microbiology Laboratory**
Fall. 1(0-3)
P: MPH 302, MPH 463 or concurrently. R: Open only to Microbiology or Medical Technology or Clinical Laboratory Sciences majors.
Diagnostic procedures for the identification of pathogenic bacteria.
QP: MPH 461 QA: MPH 464
- 471. Medical Parasitology**
Spring. 2(1-2)
P: MPH 302. R: Open only to Microbiology or Medical Technology or Clinical Laboratory Sciences majors.
Biology and laboratory diagnosis of protozoan and helminth infections of humans.
QP: BS 210, BS 211, BS 212 QA: MPH 437
- 490. Special Problems in Microbiology**
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.
Library research or tutorial instruction in advanced laboratory techniques.
QA: MPH 490
- 491. Current Topics in Microbiology**
Spring. 3(3-0)
P: MPH 401, MPH 403 or concurrently. R: Open only to Microbiology majors.
Capstone experience for Microbiology majors. Presentation and discussion of journal articles, and writing position papers. Topics include: microbial physiology, ecology, genetics, molecular biology, virology, immunology, or pathogenesis.
QP: MPH 303, MPH 407 QA: MPH 390
- 492. Undergraduate Research Seminar**
Spring. 1(1-0)
P: MPH 499 or MPH 499H. R: Open only to Microbiology majors.
Presentation and group discussion of undergraduate research results.
QP: MPH 490
- 499. Undergraduate Research**
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Open only to Microbiology majors.
Participation in a laboratory research project. Together with MPH 492 constitutes a capstone experience.
- 499H. Honors Research**
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Open only to Honors College students and Microbiology majors.
A three-or-more semester research project with thesis and oral report. A portion of Microbiology capstone experience.
QA: MPH 400H
- 522. Medical Microbiology and Immunology**
Spring. 5(4-2)
R: Graduate-professional students in colleges of Human and Osteopathic Medicine.
Basic principles of microbiology (bacteriology, virology, mycology and parasitology) and immunology and their relation to disease in humans.
- 531C. Medical Microbiology: Virology**
Fall. 3(2-2)
R: Completion of the first year of the graduate-professional program in the College of Veterinary Medicine.
General properties of animal viruses. Pathogenesis, immune response, and immunoprophylaxis in viral diseases. Principles of clinical virology.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.
QA: MPH 531C
- 531D. Medical Microbiology: Parasitology**
Fall. 3(2-3)
R: Completion of the first year of the graduate-professional program in the College of Veterinary Medicine.
Basic principles of parasitology (protozoology, helminthology, and entomology) and their relation to disease in animals.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.
QA: MPH 531D
- 561. Veterinary Immunology**
Spring. 2(2-0)
R: Open only to graduate-professional students in College of Veterinary Medicine.
Basic scientific concepts of immunochemistry, immunobiology, and immunopathology related to the healthy state and the host response to infection and parasitism.
QA: MPH 531A
- 563. Medical Bacteriology, Mycology, Parasitology and Virology**
Spring. 4(3-3)
R: Open only to graduate professional students in College of Veterinary Medicine.
Structure, function, and diagnostic characteristics of bacteria, fungi, helminths, protozoa, and viruses as related to pathogenicity and control. Role of arthropods in disease transmission. Action of antimicrobial agents. Dysfunction.
QA: MPH 531B, MPH 531C, MPH 531D
- 565. Bacterial, Mycotic, Parasitic, and Viral Diseases**
Fall. 6(5-2)
R: Completion of 2 semesters of the graduate-professional program in the College of Veterinary Medicine.
Mechanisms of pathogenesis of selected infectious diseases of common animal species. Antibacterial and antifungal therapy. Viral and parasitic diagnosis, epidemiology, and management. Host immune response.
QA: MPH 531A or MPH 531B or MPH 531C or MPH 531D
- 690. Veterinary Microbiology Clerkship**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Completion of 5 semesters of the graduate-professional program in the College of Veterinary Medicine.
Laboratory-based investigation of microbiological problems pertinent to veterinary medicine.
- 813. Molecular Virology**
Spring of odd-numbered years. 3(3-0)
R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Veterinary Medicine, Natural Science, and Agriculture and Natural Resources.
Molecular nature and biochemistry of replication of animal viruses. Current advances, research concepts, and the role of viruses in molecular biology research.
QA: MPH 813
- 821. Microbial Physiology**
Spring of even-numbered years. 3(3-0)
P: MPH 401. R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Veterinary Medicine, Natural Science, and Agriculture and Natural Resources.
Molecular architecture, assembly of cell parts, metabolism, and general physiology of typical eubacteria.
QP: MPH 303 QA: MPH 821
- 827. Bacterial Diversity**
Fall of odd-numbered years. 3(3-0)
P: BCH 461, MPH 401. R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Veterinary Medicine, Natural Science, and Agriculture and Natural Resources.
Morphological and physiological properties of groups of bacteria. Relationship of those properties to ecological niche and importance.
QP: MPH 303, MPH 304, BCH 401, BCH 453 QA: MPH 831
- 828. Bacterial Diversity Laboratory**
Fall of odd-numbered years. 2(0-6)
P: MPH 827 or concurrently. R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Veterinary Medicine, Natural Science, and Agriculture and Natural Resources.
Isolation and identification of representative groups of bacteria.
QP: MPH 831 QA: MPH 832
- 833. Microbial Genetics**
Fall. 3(3-0)
R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Veterinary Medicine, Natural Science, and Agriculture and Natural Resources.
Gene structure and function. Genetic regulation at classical and molecular levels in prokaryotes and lower eukaryotes.
QP: BCH 811 QA: MPH 823
- 841. Soil Microbiology**
Spring of odd-numbered years. 3(3-0)
Interdepartmental with Crop and Soil Sciences.
P: MPH 425.
Ecology, physiology, and biochemistry of microorganisms indigenous to soil.
QP: MPH 426 QA: MPH 842
- 851. Immunology**
Fall of odd-numbered years. 3(3-0)
R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Veterinary Medicine, Natural Science, and Agriculture and Natural Resources.
Functional aspects of immune responses; synthesis, structure, and function of effector molecules; cell-cell interactions; current advances and research techniques.
QP: MPH 427, BCH 451 QA: MPH 851, MPH 852
- 890. Special Problems in Microbiology**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.
R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Veterinary Medicine, Natural Science, and Agriculture and Natural Resources. Approval of department.
Individualized laboratory or library research.
QA: MPH 890

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

899. Master's Thesis Research
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

991. Topics in Microbiology
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**

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: MS 101, MS 102

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: MS 102, MS 203

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: 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

302. Leadership: Small Unit Tactics
Fall, Spring, Summer. 3(3-2)
 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: MS 301 QA: MS 302, MS 303

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: MS 302 QA: MS 401, MS 402

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: 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 course.
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 course.
 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) 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

120. 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 composers.
 QA: MUS 133B

123. Collegiate Choir
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 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) 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.
 QA: MUS 191

125. 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

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.
 QA: MUS 190

127. 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.
 QA: MUS 193

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.
 QA: MUS 112