531. Bacterial Diversity
Spring of odd-numbered years. 3(3-0)
MPH 303, MPH 304; BCH 401 or BCH 453 or concurrently.
Morphological and physiological properties of diverse groups of bacteria and how these properties relate to their ecological niche and importance.

532. Soil Microbiology Laboratory
Spring of odd-numbered years. 2(0-6)
MPH 831 or concurrently.
Representative groups of bacteria will be isolated and studied.

533. Soil Microbiology Laboratory
Fall of odd-numbered years. 3(3-0)
MPH 425 or approval of department. Interdepartmental with the Department of Crop and Soil Sciences.
Biochemistry, biology, and community ecology of microorganisms indigenous to soil. Emphasis on current research problems.

544. Soil Microbiology Laboratory
Fall of odd-numbered years. 2(0-6)
MPH 842 concurrently or approval of department. Interdepartmental with the Department of Crop and Soil Sciences.
Fundamental techniques of dealing with microorganisms indigenous to soil. Metabolic activity of microorganisms. Interaction between microorganisms and plants.

590. Special Problems in Microbiology
Fall, Winter, Spring, Summer. 2 to 6 credits. May reenroll for a maximum of 12 credits. Approval of department.

600. Seminar
Fall, Winter, Spring, Summer. 1(1-0)
May reenroll for a maximum of 9 credits. Approval of department.

687. Immunobiology
Spring, 3(3-0) MPH 427; BCH 452, or ZOL 441, and CHEM 383 recommended.
Structure and reactivity of antigens and antibodies; synthesis of immunoglobulins. Emphasis on current advances and research concepts.

688. Host-Parasite Relationships
Fall, 3(3-0) MPH 427, MPH 499 or approval of department.
Pathogenesis and host responses to selected bacterial, parasitic, and fungal pathogens. Emphasis on current research models which exemplify a variety of host-parasite relationships.

121. Preview of Military Science
Fall, Winter, Spring. 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 Weapon Safety
Spring, 1(0-0) 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. Leadership and Health Care
Fall. 1(1-0) M S 121, M S 041A, M S 608

222. Advanced Military Studies
Spring, 2(4-2) M S 121 and approval of department.
Use of military topographic maps and special use maps. Development of map profiles and overlays for tactical operations. Land navigation with lenticus and Silva compass.

324. Leadership Through Training
Fall. 4(4-2) Basic course, approval of department.
Designing, preparing, and presenting effective training for individuals and groups.

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 phases of military operations. Emphasis is placed on physical and moral leadership during the laboratory sections.

426. Military Law and Unit Administration
Fall. 3(3-0) Approval of department.
Military legal system and the responsibilities of the commander and junior leaders in the application of military justice, Operation, and administration in military units to provide personnel and logistic support.

499. Independent Study in Military Science
Fall, Winter, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 6 credits. Approval of department and Juniors.
Individual research and study in an area related to military science as approved and directed by the Department of Military Science.