AEROSPACE STUDIES  A S

All University

041. Leadership Laboratory
Fall, Winter, Spring. 0(0-1) Approval of department. Open only to students who are not enrolled in any other Aerospace Studies course.
Basic concepts of leadership and the role of an Air Force officer; leadership development through practical experience.

110. Organization of the U.S. Air Force
Fall. 1(1-1)
The doctrine and mission of the U.S. Air Force; includes its history, organization, and how it is structured for mission accomplishment. Comparison of armed services mission relationships.

111. U.S. Strategic Offense and Defense Forces
Winter. 1(1-1)
Comparison of the missions and functions of specific Air Force commands, including employment of contemporary aerospace equipment and systems, as well as naval strategic offensive forces and army ABM systems.

112. U.S. General Purpose Forces
Spring. 1(1-1)
Tactical air forces. The mission, organization and function of the Air Force support commands and separate operating agencies as well as forces of other military branches.

210. The Development and Employment of Aerospace Forces
Fall. 1(1-1)
Development of flight from man's first efforts to the present. Employment of aerospace forces in war and peace.

211. The Development and Employment of Aerospace Forces
Winter. 1(1-1)
Continuation of A S 210.

212. The Development and Employment of Aerospace Forces
Spring. 1(1-1)
Continuation of A S 211.

320. U.S. Air Force Communication and Management
Fall. 3(3-1)
Application of communication and management skills for Air Force officers.

Winter. 3(3-1)
Leadership theory, functions, and practices. Applications of leadership concepts by junior officers.

322. U.S. Air Force Management and Leadership
Spring. 3(3-1)
Traditional Air Force management functions and current practices. Emphasizes need for leadership and professionalism in modern officer corps.

420. The Military and American Society
Fall. 3(3-1)
Role of the professional officer in a democratic society; socialization process within the Armed Services; political economic and social constraints upon the national defense structure.

421. Strategy and the Management of Conflict
Winter. 3(3-1)
The formation and implementation of defense policy and strategy. The bureaucratic interplay and impact of nuclear technology. An investigation of limited and insurgency warfare.

422. National Defense Policy and Military Justice
Spring. 3(3-1)
Broad range of American civil-military relations and the environmental context in which defense policy is formulated. Military justice and the laws of war.

499. Independent Study
Fall, Winter, Spring, Summer. 1 to 3 credits. May enroll for a maximum of 6 credits. Juniors and approval of instructor.
Investigation of an aspect of aerospace activities of specific interest to the student and a faculty member.

AFRICAN LANGUAGES
See Linguistics and Germanic, Slavic, Asian, and African Languages.

AGRICULTURAL ECONOMICS

College of Agriculture and Natural Resources

805. Agricultural Production Economics 1
Fall. 4(4-0) PAM 340 or EC 325.

809. Institutions Behavior and Performance
Fall. 3(3-0) Approval of department.

810. Economics of Public Choice
Winter. 3(3-0) Approval of department. Interdepartmental with the departments of Resource Development and Economics. Economics of alternative institutions for collective action. Emphasis on property rights and natural resource use. Market behavior, non-marginal change, commonwealth, income and power distribution, grants, welfare criteria and market failure.

811. Public Program Analysis
Spring. Summer of odd-numbered years. 3(3-0) EC 324 or approval of department. Interdepartmental with the departments of Economics and Resource Development.
Application of benefit-cost analysis to public programs of resources development. Issues and case studies in budgeting, investment criteria, pricing, externalities, and coordination.

830. Data Generation and Analysis
Winter. 4(4-0) SST 421.
Organization of information systems in relation to economics of information. Use of published data and samples. Index numbers. Regression, hypothesis testing and decision making. Emphasis on social science applications.

831. Food Marketing Management
Fall, Spring. 4(4-0) May enroll for a maximum of 6 credits. Interdepartmental with and administered by the Department of Marketing and Transportation Administration.
Food industry adjustment to changing social, economic and internal company environment. Managerial principles and techniques applied to food processing and distribution. Student interaction with industry, labor and government representatives.

833. Mathematical Programming
Spring. 3(3-0) EC 600 or EC 812A, MTH 334. Interdepartmental with the departments of Economics, and Statistics and Probability.
Linear programming. Theory of linear economic models. Topics in nonlinear programming.

835. Introduction to Econometrics
Fall, Spring. Summer. 3(3-0) EC 355, SST 422. Interdepartmental with and administered by the Department of Economics. Specification, estimation and interpretation of economic models. Applications to empirical problems.

837. Applied Operations Research I
Spring. 4(4-0) MTH 115 or MTH 228. Approval of department.
Use and interpretation of operations research techniques for problems encountered by agricultural economists. Emphasis on linear programming and its variations such as transportation models, network analysis, spatial equilibrium models.

838. Applied Operations Research II
Summer. 3(2-0) MTH 113 or MTH 228, SST 422. Approval of department.
Use and interpretation of operations research techniques for problems encountered by agricultural economists. Emphasis on techniques such as Markov processes, dynamic programming, and spatial models of transport, network analysis, queuing, Monte-Carlo techniques, and decision models.

841. Industrial Organization of Agricultural Markets
Fall. 3(3-0) Approval of department.

843. Commodity Market Analysis
Winter. 3(3-0) SST 422, EC 325.
Economic forecasting in agricultural commodity markets, short run and long run. Futures markets, hedging, speculation, Plant location and size. Selected topics. Emphasis on techniques of use to firm manager.