

**Descriptions – Aerospace Studies
of
Courses**

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 Offensive and Defensive 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.
- 321. Concepts of U.S. Air Force Leadership**
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 reenroll 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

AEC

College of Agriculture and Natural Resources

- 805. Agricultural Production Economics I**
Fall. 4(4-0) PAM 340 or EC 325.
Economic principles of production. Industry supply and factor demand analysis. Management concepts and choice criteria. Interrelationship of production and consumption decisions. Welfare economics. Agricultural economics applications.
- 809. Institutions Behavior and Performance**
Fall. 3(3-0) Approval of department.
Relationships among institutional structure, behavior, and performance. Concepts of behavioral sciences useful in public policy and program analysis emphasizing interactions of preferences, incentives and institutions.
- 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 resources. Public goods, externalities, 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) STT 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 reenroll for a maximum of 8 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 800 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 325, STT 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 113 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. 2(2-0) MTH 113 or MTH 228, STT 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 cohort analysis, queuing. Monte-Carlo techniques, elementary simulation.
- 841. Industrial Organization of Agricultural Markets**
Fall. 3(3-0) Approval of department.
Market organization and evaluation of performance. Pricing and market coordination problems. Group action in agricultural markets. Role of marketing in economic development.
- 843. Commodity Market Analysis**
Winter. 3(3-0) STT 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.