

**Graduate Course Descriptions Effective Fall 2007**

[https://www.banweb.mtu.edu/pls/owa/stu\\_ctg\\_utils.p\\_online\\_all\\_courses\\_gr](https://www.banweb.mtu.edu/pls/owa/stu_ctg_utils.p_online_all_courses_gr)

**Economics**

**EC 5000 - Microeconomics**

The study of consumer demand theory of the firm, market structure, and industrial performance. Emphasizes establishment of an analytic framework for evaluating public policy.

**Credits:** 4.0

**Lec-Rec-Lab:** (0-4-0)

**Semesters Offered:** Fall

**Restrictions:** Must be enrolled in one of the following Level(s): Graduate

**Pre-Requisite(s):** EC 3002

**EC 5010 - Macroeconomics**

The study of the determinants of the level of income, employment, the rate of inflation, economic growth, and cyclical variations in the economy, including considerations of the rationale for monetary and fiscal policy and their impact on the business community.

**Credits:** 4.0

**Lec-Rec-Lab:** (0-4-0)

**Semesters Offered:** Spring

**Restrictions:** Must be enrolled in one of the following Level(s): Graduate

**Pre-Requisite(s):** EC 3003

**EC 5300 - Managerial Economics**

Economic analysis of the operation of a business. Topics include optimization, demand theory and forecasting, production/cost analysis, market structure and strategic behavior, risk analysis, antitrust policy and regulation of safety and the environment, and international management.

**Credits:** 3.0

**Lec-Rec-Lab:** (3-0-0)

**Semesters Offered:** Spring, Summer

**Restrictions:** Must be enrolled in one of the following Level(s): Graduate

**Pre-Requisite(s):** EC 3001 or (EC 2002 and EC 2003)

**EC 5400 - Advanced Engineering Economics**

Presents and demonstrates procedures and quantitative techniques used in capital budgeting and project evaluation and selection for industry. Topics include cash flow analysis, decision methods, risk and uncertainty, cost of capital, taxes and depreciation, and forecasting market variables. Topics presented with study problems, applying spreadsheet programs.

**Credits:** 3.0

**Lec-Rec-Lab:** (0-3-0)

**Semesters Offered:** On Demand - Offered alternate years beginning with the 2002-2003 academic year

**Restrictions:** Must be enrolled in one of the following Level(s): Graduate

**Pre-Requisite(s):** BA 3400 or EC 3400

**EC 5600 - Natural Resource and Environmental Economics**

Supply and use of renewable and depletable natural resources, including minerals, energy, agriculture, forests, fisheries, wildlife, and water. Efficient management of private and common property resources and environmental issues and concerns. Efficiency, market failures, benefit-cost analysis, and policy analysis. No credit if a student has previous credit for EC4610.

**Credits:** 3.0

**Lec-Rec-Lab:** (0-3-0)

**Semesters Offered:** Spring, Summer

**Restrictions:** Permission of instructor required; Must be enrolled in one of the following Level(s):  
Graduate

**EC 5610 - Economics of Nonfuel Minerals**

Economics of the nonfuel minerals industries: market analysis, market structure, international trade issues, policy analysis, role of minerals in society, supply, demand, markets, and foreign trade for important minerals, effects of government policies on the minerals industries. No credit if a student has previous credit for EC4600.

**Credits:** 3.0

**Lec-Rec-Lab:** (0-3-0)

**Semesters Offered:** Fall

**Restrictions:** Permission of instructor required; Must be enrolled in one of the following Level(s):  
Graduate

**EC 5620 - Energy Economics**

Examines social and private problems in the supply, distribution, and use of energy resources and the energy industries. Studies production, allocation, and environmental and social problems of petroleum, natural gas, coal, nuclear, electricity, and various alternative energy sources. No credit if a student has previous credit for EC4620.

**Credits:** 3.0

**Lec-Rec-Lab:** (0-3-0)

**Semesters Offered:** Spring

**Restrictions:** Permission of instructor required; Must be enrolled in one of the following Level(s):  
Graduate

**EC 5900 - Special Topics**

Economic topics of interest to students or independent study in economics under the guidance of a faculty member.

**Credits:** variable to 4.0; Repeatable to a Max of 8

**Semesters Offered:** On Demand

**Restrictions:** Permission of instructor required; Must be enrolled in one of the following Level(s):  
Graduate

**EC 5999 - Graduate Research**

Under the guidance of a faculty member, students will read, conduct research, and prepare a report, paper, or thesis.

**Credits:** variable to 15.0; Repeatable to a Max of 15; Graded Pass/Fail Only

**Semesters Offered:** On Demand

**Restrictions:** Must be enrolled in one of the following Level(s): Graduate

**EC 5999D - Graduate Research**

Under the guidance of a faculty member, students will read, conduct research and prepare a report, paper or thesis.

**Credits:** 3.0

**Lec-Rec-Lab:** (0-3-0)

**Semesters Offered:** On Demand

**Restrictions:** Must be enrolled in one of the following Level(s): Graduate

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