## Program pages:

## Economics

Learning Goals

Writing in the Discipline

**Department of Economics and Finance**

**Department Chair:** Murat Aydogdu

**Economics Program Faculty:** **Professor** Blais; **Associate Professors** Basu, Karim, Tashiro

Students **must**consult with their assigned advisor before they will be able to register for courses. A graded writing assignment is required for every course.

Economics B.A.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
| ECON 314 | Intermediate Microeconomic Theory and Applications | 4 | F, |
| ECON 315 | Intermediate Macroeconomic Theory and Analysis | 4 | Sp |
| ECON 449 | Introduction to Econometrics | 4 | F, Sp |
|  |  |  |  |
|  |  |  |  |
| ECON 462 | Seminar in Economic Research | 4 | Sp |
|  | -Or- |  |  |
| ECON 492 | Independent Study II | 4 | As needed |

ANY ONE COURSE from

ECON 331 Topics in Global Economics 4 Annually (even years)

ECON 335 Economics of Race and Gender 4 Annually (even years)

ECON 337 Economics of Climate Change

and Sustainability 4 Anuually (odd years)

THREE COURSES from

ECON 390 Directed Study 4 As needed

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 421 | International Economics | 4 | As needed |
| ECON 422 | Economics of Developing Countries | 4 | As needed |
|  |  |  |  |
| ECON 431 | Labor Economics | 4 | As needed |
| ECON 433 | Economics of Government | 4 | As needed |
| ECON 435 | Urban Economics | 4 | As needed |
| ECON 436 | Industrial Organization and Market Structure | 4 | As needed |
| ECON 437 ECON 438 | Environmental Economics History of Economic Thought | 4  4 | As needed  As needed |
| ECON 490 | Independent Study in Economics | 4 | As needed |
| ECON 491 | Independent Study I | 4 | As needed |
|  |  |  |  |

Cognates

ACCT 201 Principles of Accounting 3 F, Sp, Su

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 230 | Writing for Professional Settings | 4 | F, Sp, Su |
|  |  |  |  |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |
| FIN 301 | Managerial Finance and Control | 4 | F, Sp, Su |

Note: MATH 177: Fulfills the Mathematics category of General Education.

Note: MATH 248: Fulfills the Advanced Quantitative Scientific Reasoning category of General Education.

Total Credit Hours: 57

Economics Minor

Course Requirements

The minor in economics consists of 22 credit hours (six courses), as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 177 | Quantitative BusinessAnalysis | 4 | F, Sp, Su |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
|  |  |  |  |
| ECON 314 | Intermediate Microeconomic Theory and Applications | 4 | F |
|  | -Or- |  |  |
| ECON 315 | Intermediate Macroeconomic Theory and Analysis | 4 | Sp |

ECON 331 Topics in Global Economics 4 Annually (even years)

-Or-

ECON 335 Economics of Race and Gender 4 Annually (even years)

-Or-

ECON 337 Economics of Climate Change

and Sustainability 4 Annually (odd years

AND ANY ONE ADDITIONAL course in economics at the 400 level.

Total Credit Hours: 22

## Global Studies

**Global Studies Program Director:**David Thomas

Students **must**consult with their assigned advisor before they will be able to register for courses.

**Retention Requirements**

A minimum cumulative grade point average of 2.75 in the Global Studies major.

Global Studies B.A.

Course Requirements

Core Courses

|  |  |  |  |
| --- | --- | --- | --- |
| GLOB 200 | Global Studies: Methods | 4 | F, Sp |
| GLOB 461 | Seminar in Global Studies | 4 | F, Sp |
|  | -And- |  |  |
| GLOB 356 | The Atlantic World | 4 | As needed |

          (or other GLOB 35X course available)

Distribution Courses

World Geography

|  |  |  |  |
| --- | --- | --- | --- |
| GEOG 200 | World Regional Geography | 4 | F, Sp |

Global Historical Perspectives

|  |  |  |  |
| --- | --- | --- | --- |
|  | ONE COURSE from: |  |  |
| HIST 307 | Europe in the Age of Enlightenment | 4 | As needed |
| HIST 308 | Europe in the Age of Revolution, 1789 to 1850 | 4 | As needed |
| HIST 309 | Europe in the Age of Nationalism, 1850 to 1914 | 4 | As needed |
| HIST 310 | Twentieth-Century Europe | 4 | As needed |
| HIST 312 | Russia from Peter to Lenin | 4 | Alternate years |
| HIST 313 | The Soviet Union and After | 4 | Alternate years |
| HIST 320 | American Colonial History | 4 | Annually |
| HIST 321 | The American Revolution | 4 | Annually |
| HIST 323 | The Emergence of Modern America | 4 | As needed |
| HIST 324 | America, 1914 to 1945 | 4 | F |
| HIST 325 | America since 1945 | 4 | Sp |
| HIST 330 | History of American Immigration | 4 | As needed |
| HIST 335 | American Foreign Policy: 1945 to the Present | 4 | F |
| HIST 336 | The United States and the Emerging World | 4 | Sp |
|  |  |  |  |
|  | ONE COURSE from: |  |  |
| HIST 341 | The Muslim World in Modern Times, 1800 to the Present | 4 | Alternate years |
| HIST 342 | Islam and Politics in Modern History | 4 | Alternate years |
| HIST 345 | History of China in Modern Times | 4 | As needed |
| HIST 346 | History of Japan in Modern Times | 4 | As needed |
| HIST 347 | Foreign Relations of East Asia in Modern Times | 4 | As needed |
| HIST 348 | Africa under Colonial Rule | 4 | Annually |
| HIST 349 | History of Contemporary Africa | 4 | Annually |
| HIST 352 | Colonial Latin America | 4 | Sp |
| HIST 353 | Modern Latin America | 4 | F |

Global Political Systems

|  |  |  |  |
| --- | --- | --- | --- |
| POL 203 | Global Politics | 4 | F, Sp |
|  | -And- |  |  |
|  | ONE COURSE from |  |  |
| POL 303 | International Law and Organization | 4 | Sp |
| POL 341 | The Politics of Developing Nations | 3 | As needed |
| POL 343 | The Politics of Western Democracies | 4 | As needed |
| POL 345 | International Nongovernmental Organizations | 4 | F |
| INGO 300 | International Nongovernmental Organizations | 4 | F |
| POL 346 | Foreign Policy | 4 | As needed |

Global Economic Systems

**Choose either A or B:**

A:

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |
|  | -And- |  |  |
|  | ONE COURSE from: |  |  |
| ECON 421 | International Economics | 4 | As needed |
| ECON 422 | Economics of Developing Countries | 4 | As needed |
| ECON 437 | Environmental Economics | 4 | As needed |

B:

|  |  |  |  |
| --- | --- | --- | --- |
| INGO 301 | Applied Development Studies | 3 | Sp |
| POL 342 | The Politics of Global Economic Change | 4 | Every third semester |
|  | -And- |  |  |

ONE upper level course on an economic topic in consultation with advisor.

Culture, Geography, Society

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 101 | Introduction to Cultural Anthropology | 4 | F, Sp |
|  |  |  |  |
|  | ONE COURSE from: |  |  |
| ANTH 309 | Medical Anthropology | 4 | Alternate years |
| ANTH 325 | South American Indians | 4 | Alternate years |
| ANTH 327 | Peoples and Cultures: Selected Regions | 4 | As needed |
| ANTH 333 | Comparative Law and Justice | 4 | F, Sp |
| ANTH 334 | Steamships and Cyberspace: Technology, Culture, Society | 4 | Alternate years |
| ANTH 338 | Urban Anthropology | 4 | Alternate years |
| ANTH 461 | Latinos in the United States | 4 | As needed |
| SOC 333 | Comparative Law and Justice | 4 | F, Sp |
|  |  |  |  |
|  | ONE COURSE from: |  |  |
| ENGL 336 | Reading Globally | 4 | As needed |
| FREN 313 | Modern France and the Francophone World | 4 | Alternate years |
| GEOG 101 | Introduction to Geography | 4 | F, Sp, Su |
| GEOG 337 | Urban Political Geography | 3 | As needed |
| GEOG 338 | People, Houses, Neighborhoods, and Cities | 3 | As needed |
| POL 337 | Urban Political Geography | 3 | As needed |
| PORT 305 | Lusophone African Literatures and Cultures | 4 | As needed |
| SPAN 313 | Latin American Literature and Culture: From Eighteenth Century | 4 | Sp |

Total Credit Hours: 52-58

## Mathematics

Learning Goals (B.A.)

Learning Goals (M.A.)

Writing in the Discipline

**Department of Mathematics and Computer Science**

**Department Chair:** Raimundo Kovac

**Mathematics Program Faculty: Professors** Abrahamson, Humphreys, La Ferla, Moskol, Sullivan, Teixeira, Zhou; **Associate Professors** Christy, Costa, Gall, Harrop, Kovac, McDowell, Sarawagi, Sparks; **Assistant Professors** Andreozzi, Burke, Burr, Roy, Wang

Students **must** consult with their assigned advisor before they will be able to register for courses.

*Note: Students cannot count toward the major more than two courses with grades below C-.*

Mathematics B.A.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |
| MATH 300 | Bridge to Advanced Mathematics | 4 | Sp |
| MATH 314 | Calculus III | 4 | F, Sp |
| MATH 315 | Linear Algebra | 4 | F |
| MATH 411 | Calculus IV | 4 | F (odd years) |
|  |  |  |  |
| MATH 416 | Ordinary Differential Equations | 4 | Sp (as needed) |
|  | -Or- |  |  |
| MATH 417 | Introduction to Numerical Analysis | 4 | Sp (as needed) |
|  |  |  |  |
| MATH 432 | Introduction to Abstract Algebra | 4 | Sp |
| MATH 441 | Introduction to Probability | 4 | F |
| MATH 461 | Seminar in Mathematics | 3 | Sp |

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 416 | Ordinary Differential Equations | 4 | Sp (as needed) |
|  | -Or- |  |  |
| MATH 417 | Introduction to Numerical Analysis | 4 | Sp (as needed) |
|  |  |  |  |
| MATH 418 | Introduction to Operations Research | 3 | Sp (even years) |
| MATH 431 | Number Theory | 3 | F, Sp |
| MATH 436 | Discrete Mathematics | 3 | Sp |
| MATH 445 | Advanced Statistical Methods | 3 | Sp |

Cognates

CHOOSE category A or B below

Category A

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 405 | Physical Chemistry I | 3 | F |
| CSCI 312 | Computer Organization and Architecture I | 4 | F, Sp |
| CSCI 422 | Introduction to Computation Theory | 3 | Sp (odd years) |
| CSCI 423 | Analysis of Algorithms | 4 | Sp |
| ECON 313 | Managerial Economics | 4 | F, Sp |
| ECON 314 | Intermediate Microeconomic Theory and Applications | 4 | F, Sp |
| ECON 315 | Intermediate Macroeconomic Theory and Analysis | 4 | Sp |
| MGT 249 | Business Statistics II | 3 | F, Sp, Su |
| MKT 333 | Market Research | 3 | F, Sp |
| PHIL 305 | Intermediate Logic | 4 | Sp (even years) |

Category B

|  |  |  |  |
| --- | --- | --- | --- |
| PHYS 200 | Mechanics | 4 | F |

and either

|  |  |  |  |
| --- | --- | --- | --- |
| CSCI 211 | Computer Programming and Design | 4 | F, Sp |
|  | -Or- |  |  |
| PHYS 201 | Electricity and Magnetism | 4 | Sp |

Prior to enrolling in any mathematics course above 120, all students must have completed the College Mathematics Competency.

Total Credit Hours: 48-54

## NOTE: a Feb. proposal already changed this major, this is just to confirm the ECON courses were raised one credit.

## Finance

Learning Goals

Writing in the Discipline

**Department of Economics and Finance**

**Department Chair:** Murat Aydogdu

**Finance Program Faculty: Professor** Kazemi; **Associate Professor** Aydogdu; **Assistant Professor** Ullah

Students **must** consult with their assigned advisor before they will be able to register for courses. A graded writing assignment is required in **every** course.

Finance B.S.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
| FIN 301 | Managerial Finance and Control | 4 | F, Sp, Su |
| FIN 335 | Financial Statement Analysis | 3 | F, Sp |
| FIN 423 | Financial Markets and Institutions | 3 | F, Sp |
| FIN 431 | Intermediate Finance | 3 | F, Sp |
| FIN 432 | Theory of Investment | 3 | F, Sp |
| FIN 434 | International Financial Management | 3 | F, Sp |
|  |  |  |  |
| FIN 461 | Seminar in Finance | 3 | F, Sp |
|  | -Or- |  |  |
| FIN 492 | Independent Study II | 3 | As needed |

THREE COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 314 | Intermediate Microeconomic Theory and Applications | 4 | F, Sp |
| ECON 315 | Intermediate Macroeconomic Theory and Analysis | 4 | Sp |
| ECON 449 | Introduction to Econometrics | 4 | F, Sp |
| FIN 436 | Fixed Income Analysis | 3 | As needed |
| FIN 441 | Financial Derivatives and Risk Management | 3 | As needed |
| FIN 447 | Financial Modeling | 3 | As needed |
| FIN 463 | Seminar in Portfolio Management | 3 | As needed |
| FIN 491 | Independent Study I | 3 | As needed |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| ACCT 201 | Principles of Accounting I: Financial | 3 | F, Sp, Su |
| CIS 251 | Computers in Management | 3 | F, Sp, Su |
| CIS 352 | Management Information Systems | 3 | F, Sp |
| ENGL 230 | Writing for Professional Settings | 4 | F, Sp, Su |
| MGT 249 | Business Statistics II | 3 | F, Sp, Su |
| MGT 301 | Foundations of Management | 3 | F, Sp, Su |
| MKT 301 | Introduction to Marketing | 3 | F, Sp, Su |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |

Note: MATH 177: Fulfills the Mathematics category of General Education.

Note: MATH 248: Fulfills the Advanced Quantitative Scientific Reasoning category of General Education.

Total Credit Hours: 67-68

Management B.S.

Course Requirements

B. Human Resource Management

|  |  |  |  |
| --- | --- | --- | --- |
| MGT 320 | Human Resource Management | 3 | F, Sp, Su |
| MGT 322 | Organizational Behavior | 3 | F, Sp, Su |
| MGT 423 | Compensation and Benefits Administration | 3 | F |
| MGT 424 | Employee Relations and Performance Appraisal | 3 | Sp |
| MGT 425 | Recruitment and Selection | 3 | F |
| MGT 428 | Human Resource Development | 3 | Sp |

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 431 | Labor Economics | 4 | As needed |
| MGT 306 | Management of a Diverse Workforce | 3 | Sp |
| MGT 329 | Organizational Theory and Design | 3 | F, Sp |
| MGT 331 | Occupational and Environmental Safety Management | 3 | F |
| MGT 333 | Negotiations and Conflict Resolution | 3 | F |
| MGT 467 | Directed Internship | 3 | F, Sp, Su |
| MGT 490 | Directed Study | 3 | As needed |
| PSYC 422 | Psychological Testing | 4 | Annually |
|  | A course approved by advisor | 3 |  |

Subtotal: 72-74

Course Descriptions:

ECON – Economics

ECON 200 - Introduction to Economics (4)

This course fosters an understanding of the market economy and

contemporary economic problems, such as economic growth and inflation, unemployment, income distribution and the role of government. Students cannot receive credit for ECON 200 if they have successfully completed or are currently enrolled in ECON 214.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

ECON 214 - Principles of Microeconomics (3)

Microeconomics is introduced, including such areas of decision making as individual demand theory, cost theory, production theory and the structure of markets.

Prerequisite: Completion of College Mathematics Competency.

Offered: Fall, Spring, Summer.

ECON 215 - Principles of Macroeconomics (3)

The U.S. economy as a whole is considered and problems of inflation and recession are explored by examining aggregate demand, aggregate supply, national product and income and the influence of money and interest rates on the economy.

Prerequisite: Completion of College Mathematics Competency.

Offered: Fall, Spring, Summer.

ECON 314 - Intermediate Microeconomic Theory and Applications (4)

Theoretical foundations covered in ECON 214 are expanded upon and myriad applications of these theories are developed, using graphical and mathematical techniques. The role of microeconomics in managerial decision making is also explored.

Prerequisite: ECON 214, ECON 215 and MATH 177.

Offered: Fall, .

ECON 315 - Intermediate Macroeconomic Theory and Analysis (4)

Macroeconomic models are used to analyze economic growth,

unemployment and inflation. Also examined are the effectiveness of fiscal and monetary policies, using models depicting the interactions of product, resource and financial markets.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: Spring.

ECON 331: Topics in Global Economics (4)

The course will introduce students to the basic operation of various economies while presenting facts of development and trade policies that are relevant for the study of the world economy.

Prerequisite: ECON 200 and Completion of College Math Competency, or ECON 214, or ECON 215.

Offered: Annually (even years)

ECON 335: Economics of Race and Gender (4)

This course emphasizes study of both non-labor and labor market outcomes, and analysis of government policies, regulations, race and gender equality, and international comparisons on racial-ethnic and gender.

Prerequisite: ECON 200 and Completion of College Math Competency or ECON 214.

Offered: Annually (even years).

ECON 337: Economics of Climate Change and Sustainability. (4)

Students are introduced to the economic causes of climate change. A global perspective combined with emphasis on the role of uncertainty and sustainable development is used to explore policy responses.

Prerequisite: ECON 200 and Completion of College Math Competency, or ECON 214

Offered: Annually (odd years).

ECON 390 - Directed Study (4)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

ECON 421 - International Economics (4)

The theory of international trade is analyzed. Topics include the benefits of trade and the effects of tariffs, quotas and customs unions. Also covered are the theories of international monetary relations, capital flows and exchange rates.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 422 - Economics of Developing Countries (4)

The characteristics of developing countries and the process of economic development are examined. Topics include poverty, inequality, unemployment, capital formation in industry and agriculture and the effects of foreign trade and aid.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 431 - Labor Economics (4)

The structures and operations of human resource markets are analyzed, including pricing and allocation of labor resources, wage differentials, income distribution, discrimination and unemployment. (Formerly Human Resources Economics.)

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 433 - Economics of Government (4)

The role of the public sector in the United States and its effect on the economy are studied. Discussion includes the impact of federal, state and local government expenditure and revenue. (Formerly Public Finance.)

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 435 - Urban Economics (4)

Economic analysis is applied to the development and problems of urban areas. Urban issues, such as poverty, housing and transportation, are examined and the market forces that determine why and where urban areas develop.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 436 - Industrial Organization and Market Structure (4)

The economics of industrial organization and the organization of firms and industries are analyzed using microeconomic theories and empirical data. Public policy issues are assessed, including antitrust and regulatory mechanisms.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 437 - Environmental Economics (4)

Focus is on current environmental problems and policies. Topics include valuing the environment, approaches to controlling local and regional air pollution, energy policy, climate change, global warming and sustainable economic growth.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 438 - History of Economic Thought (4)

The development of economic thought is examined from the prescholastics through the middle of the twentieth century.

Prerequisite: ECON 214, ECON 215 and at least one additional economics course at the 300-level or above.

Offered: As needed.

ECON 449 - Introduction to Econometrics (4)

Quantitative methods used in testing theoretical propositions in economics and business are presented. Emphasis is on the use of regression, time-series models and other econometric methods. Lecture and computer laboratory.

Prerequisite: ECON 214, ECON 215; ; MATH 248.

Offered: Fall, Spring.

ECON 462 - Seminar in Economic Research (4)

Economics majors are introduced to doing economic research.

Students integrate economic literature, theory, data and empirical methodologies to write and present a journal article style research paper

Prerequisite: ECON 314, ECON 449 and one additional economics course at the 400-level.

Offered: Spring.

ECON 467 – Directed Internship in Economics (3)

Students are assigned to a business, an industrial organization, or a not-for-profit organization and supervised by a mentor. Students receive 1 credit hour for every four hours of work. A two-hour biweekly seminar is included.

Prerequisite: Junior standing, a major or minor in a School of Management program and consent of internship director and appropriate faculty member.

Offered: Fall, Spring, Summer.

ECON 490 - Independent Study in Economics (4)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

ECON 491 - Independent Study I (4)

This course emphasizes the development of research for students admitted to the economics honors program. The research topic is selected and conducted under the supervision of a faculty advisor.

Prerequisite: Admission to the economics honors program and consent of instructor, department chair and dean.

Offered: As needed.

ECON 492 - Independent Study II (4)

This course continues the development of research begun in ECON 491. The honors research is completed under the consultation of a faculty advisor. A research paper and presentation are required.

Prerequisite: ECON 491 and consent of instructor, department chair and dean.

Offered: As needed.