Courses are subject to revision and final approval.

CROP AND SOIL SCIENCES

251H. Advanced Soil Physics
Fall or even-numbered years. 3(3-0)
P: CSS 440 R: Graduate students
Modelling major physical transport mechanisms in the soil profile: aeration, water movement and evaporation, temperature, and solute movement.
QP: CSS 480 QA: CSS 812

941*. Quantitative Genetics in Plant Breeding
Spring of odd-numbered years. 3(3-0)
Interdepartmental with the Department(s) of Horticulture, Forestry.
Theoretical genetic basis of plant breeding with emphasis on traits exhibiting continuous variation. Classical and contemporary approaches to the study and manipulation of quantitative trait loci.
QP: CSS 941 QA: CSS 999

999*. Doctoral Dissertation Research
Fall, Spring, Summer. 3 to 12 credits in increments of 3 credits. May reenroll for a maximum of 24 credits.
R: Ph.D.
QP: CSS 999

ECONOMICS

201. Introduction to Microeconomics
Fall, Spring, Summer. 3(3-0)
R: Not open to students with credit in EC 251H.
Economic institutions, reasoning and analysis. Consumption, production, determination of price and quantity in different markets. Income distribution, market structure and normative analysis.
QP: EC 201

202. Introduction to Macroeconomics
Fall, Spring, Fall, or Summer. 3(3-0)
R: None
Not open to students with credit in EC 252H.
QP: EC 202

251H. Microeconomics and Public Policy
Fall, Spring. 4(4-0)
R: Open only to Honors College students.
Not open to students with credit in EC 251H or EC 324.
Theories of consumer behavior, production and cost. Output and price determination in competition and monopolies. Welfare economics, general equilibrium, externality, and public goods.
QP: EC 251H OR EC 324

252H. Macroeconomics and Public Policy
Fall, Spring. 3(3-0)
P: EC 201 or EC 202, EC 324. R: Open only to Honors College students.
Not open to students with credit in EC 202 and EC 326.
Theory of national income, unemployment, inflation and economic growth and its application to economic analysis and policy.
QP: EC 252H OR EC 326

301*. Intermediate Microeconomics
Fall, Spring. 3(3-0)
P: EC 201, EC 202. R: Not open to students with credit in EC 251H.
Theories of consumer choice, production, cost, perfect competition, and monopoly. Welfare economics, general equilibrium, externality, and public goods.
QP: EC 201 AND EC 202 QA: EC 324

302*. Intermediate Macroeconomics
Fall, Spring. 3(3-0)
P: EC 202, EC 202. R: Not open to students with credit in EC 252H.
QP: EC 201 AND EC 202 QA: EC 326

306*. Comparative Economic Systems
Fall, Spring. 3(3-0)
P: EC 201 or EC 251H; EC 202 or EC 252H.
Characteristics and functions of economic systems. Alternative patterns of economic control, planning, and market structure. Theories, philosophies, and experiences associated with capitalism, socialism, and mixed economies.
QP: EC 201 OR EC 251H AND EC 202 OR EC 252H QA: EC 324

330*. Money, Banking, and Financial Markets
Fall, Spring, Summer. 3(3-0)
P: EC 201 or EC 251H; EC 202 or EC 252H.
Money markets and financial intermediation. Money, the Federal Reserve System, and monetary policy. Regulation of money markets.
QP: EC 201 OR EC 251H AND EC 202 OR EC 252H QA: EC 318 OR EC 330

335*. Survey of Public Economics
Fall, Spring. 3(3-0)
Interdepartmental with the Department(s) of Agricultural Economics.
P: EC 201 or EC 251H. R: Not open to students with credit in EC 425 or EC 435.
Economics of the public sector. Public goods, externalities, design and incidence of the tax system. Equity and efficiency effects of government programs.
QP: EC 201 OR EC 251H QA: EC 406 OR EC 407

340*. Survey of International Economics
Fall, Spring. 3(3-0)
P: EC 201 or EC 251H; EC 202 or EC 252H. R: Not open to students with credit in EC 425 or EC 441.
QP: EC 201 OR EC 251H AND EC 202 OR EC 252H QA: EC 425 OR EC 429

360*. Private Enterprise and Public Policy
Fall, Spring. 3(3-0)
P: EC 201 or EC 251H.
Effects of antitrust, economic regulation, and other public policies on competition, monopoly, and other market problems in the United States economy.
QP: EC 201 OR EC 251H AND EC 444 QA: EC 445

380*. Labor Relations and Labor Market Policy
Fall, Spring. 3(3-0)
P: EC 201 or EC 251H.
Labor market functions, legal framework, and economic effects of unions and collective bargaining. Institutions and economic impacts of government programs. Minimum wages, workers' compensation, unemployment insurance, and antidiscrimination policies.
QP: EC 201 OR EC 251H QA: EC 395 OR EC 365 OR EC 455

401*. Advanced Microeconomics
Fall, Spring. 3(3-0)
P: EC 301 or EC 351H.
Economics of uncertainty and incomplete information. Game theory and theories of oligopoly. Transaction costs. Advanced topics in welfare economics, general equilibrium, externality, and public goods.
QP: EC 324 OR EC 351H QA: EC 325 OR EC 426

402*. Advanced Macroeconomics
Fall, Spring. 3(3-0)
P: EC 251H or EC 301; EC 252H or EC 302.
Consumption, investment, and monetary theories. The role of expectations. Theories of economic growth and cycles. Stabilization policies.
QP: EC 324 OR EC 351H AND EC 326 QA: EC 327 OR EC 470

403*. Economic Thought I
Fall. 3(3-0)
P: EC 201 or EC 251H; EC 202 or EC 252H.
Forerunners of classical economics. Classical economic thought from Adam Smith to J.S. Mill. The socialist reaction.
QP: EC 201 OR EC 251H AND EC 202 OR EC 252H QA: EC 421

404*. Economic Thought II
Spring. 3(3-0)
P: EC 201 or EC 251H; EC 202 or EC 252H.
Decline of classical economics and rise of marginalist value and distribution theory. Marxism and institutionalism.
QP: EC 201 OR EC 251H AND EC 202 OR EC 252H QA: EC 422

405*. The Development of the American Economy
Spring. 3(3-0)
P: EC 201 or EC 251H; EC 202 or EC 252H.
Causes and consequences of American economic development. Economic analysis of topics such as British trade policies, slavery, industrialization, immigration, the Great Depression, wars and income distribution.
QP: EC 201 OR EC 251H AND EC 202 OR EC 252H QA: EC 436

406*. Economy of the Soviet Union
Spring of even-numbered years. 3(3-0)
P: EC 201 or EC 251H; EC 202 or EC 252H.
History and analysis of Soviet planning, banking, and pricing systems. Analysis of labor market and capital allocation under planning and transition.
QP: EC 201 OR EC 251H AND EC 202 OR EC 252H QA: EC 438

410*. Principles of Economic Development
Fall. 3(3-0)
P: EC 201 or EC 251H; EC 202 or EC 252H.
QP: EC 201 OR EC 251H AND EC 202 OR EC 252H QA: EC 439

411*. Issues in Economic Development
Spring. 3(3-0)
P: EC 201 or EC 251H; EC 202 or EC 252H.
 Mobilizing and allocating capital for raising productivity. Monetary policy, financial intermediaries. Investment criteria and project analysis. Taxes and public expenditures. Trade policy, foreign capital, international disequilibrium, and structural adjustment.
QP: EC 201 OR EC 251H AND EC 202 OR EC 252H QA: EC 451
Courses are subject to revision and final approval.

**ECONOMICS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>412*</td>
<td>Economics of Latin America</td>
<td>3(3-0)</td>
<td>EC 251 or EC 251H, EC 202 or EC 252H</td>
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<tr>
<td>413*</td>
<td>Economics of Asia</td>
<td>3(3-0)</td>
<td>EC 201 or EC 251H, EC 202 or EC 252H</td>
</tr>
<tr>
<td>414*</td>
<td>Economics of Sub-Saharan Africa</td>
<td>3(3-0)</td>
<td>EC 201 or EC 251H, EC 202 or EC 252H</td>
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<tr>
<td>430*</td>
<td>Introduction to Econometric Methods</td>
<td>3(3-0)</td>
<td>EC 251 or EC 251H, EC 301 or EC 252H or EC 302; STT 315, or STT 331, or STT 421</td>
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<tr>
<td>435*</td>
<td>Public Expenditures</td>
<td>3(3-0)</td>
<td>EC 251H or EC 301</td>
</tr>
<tr>
<td>436*</td>
<td>Public Revenues</td>
<td>3(3-0)</td>
<td>P: EC 251H or EC 301</td>
</tr>
<tr>
<td>437*</td>
<td>State and Local Public Finance</td>
<td>3(3-0)</td>
<td>P: EC 251 or EC 251H</td>
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<tr>
<td>440*</td>
<td>International Trade</td>
<td>3(3-0)</td>
<td>P: EC 251H or EC 301</td>
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<tr>
<td>441*</td>
<td>International Finance</td>
<td>3(3-0)</td>
<td>P: EC 251H or EC 252H, EC 302, EC 305</td>
</tr>
<tr>
<td>450*</td>
<td>Analysis of Labor Markets</td>
<td>3(3-0)</td>
<td>P: EC 251H or EC 301</td>
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<tr>
<td>455*</td>
<td>Economics of Poverty and Income Distribution</td>
<td>3(3-0)</td>
<td>P: EC 201 or EC 251H, EC 202 or EC 252H</td>
</tr>
<tr>
<td>460*</td>
<td>Macroeconomic Analysis</td>
<td>3(3-0)</td>
<td>P: EC 201 or EC 251H, EC 202 or EC 252H</td>
</tr>
<tr>
<td>470*</td>
<td>Macroeconomic Analysis and Open Economy</td>
<td>3(3-0)</td>
<td>P: EC 201 or EC 251H, EC 202 or EC 252H</td>
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<tr>
<td>480*</td>
<td>Microeconomic Analysis</td>
<td>3(3-0)</td>
<td>P: EC 201 or EC 251H, EC 202 or EC 252H</td>
</tr>
<tr>
<td>499*</td>
<td>Senior Seminar</td>
<td>3(3-0)</td>
<td>P: EC 251H or EC 301 or EC 252H or EC 255H or EC 302; EC 420 or concurrently: R: Open only to seniors in Economics</td>
</tr>
</tbody>
</table>

Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.
Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.
Topics in cooperative and non-cooperative game theory. Applications include: oligopoly and bargaining theories; strategic voting and principal agent models; endogenous coalition formation; signaling; strategic trade and licensing theories.

EAD 866A EAD 866B

Analysis of the effects of risk in economic environments. Topics include: expected utility theory; risk aversion; stochastic dominance; mean-variance models; state preference models; general equilibrium models with risk; information theory.

EAD 861

EAD 860

EAD 866A EAD 866B EAD 860C

Elementary and Middle School Administration

Fall, Summer. 3(3-0)
R: Graduate student

Administration and supervision of elementary and middle schools. Alternative organizational arrangements, curricula, practices, problems and strategies for improving K-8 schools.

EAD 852A

Secondary School Administration

Fall, Summer. 3(3-0)
R: Graduate student


EAD 852B

Schools, Families, and Communities

Fall, Summer. 3(3-0)
R: Graduate student

Comparative and historical analyses of education in and of schools, and within the broader social context. Families, communities, and the private sector. Relationships among social problems, social policies, and school practice.

EAD 853B

Instructional Supervision

Spring, Summer. 3(3-0)
R: EAD 800 R: Graduate student


EAD 853C

Introduction to the Learning Society

Fall, Summer. 3(3-0)
R: Graduate students

Lifelong education in the United States and other countries. Origins, forms, purposes, sponsors, content, and theory.

EAD 860

EAD 863A

Adult Learning

Fall, Summer. 3(3-0)
R: Graduate students

Conceptions of adult development and life transitions. Adult motivation and barriers to participation. Theories of adult learning.

EAD 861

Strategies for Teaching Adults

Spring. 3(3-0)
R: EAD 860 and EAD 861A R: Graduate students

Strategies for teaching adults including assessing program goals, setting expectations, developing resources, choosing strategies, and evaluating outcomes.

EAD 861B

Basic Skills in the Community and Workplace

Spring of odd-numbered years. 3(3-0)
R: Graduate students

Psychological, sociological, economic and political implications of illiteracy. Literacy campaigns and specific approaches to reducing illiteracy. Workforce literacy programs and techniques in schools, business, industry and labor.

EAD 861C

Training in Industry

Fall. 3(3-0)
R: EAD 860 R: Graduate students

Factors influencing the development of education and training in business and industry. Relevance of training and development models to adult educators.

EAD 862A

Adult Career Development

Spring. 3(3-0)
R: Graduate students

Personal, social and economic impact of careers. Theories, practices and systems available to professionals in assisting client groups in the career development process.

EAD 863B

Foundations of Postsecondary Education

Fall. 3(3-0)
R: Graduate students

Growth and development of colleges and universities. Major historical, philosophical and social forces that shaped their development. Emphasis on the development of higher education in the United States.

EAD 870B

Collegiate Contexts for Teaching and Learning

Spring of odd-numbered years. 3(3-0)
R: EAD 860, EAD 861A R: Graduate students

Individual, institutional, cultural, professional, and external environmental factors that shape collegiate teaching and learning. Administrative and organizational strategies for improving learning.

EAD 871B

Legal Issues in Higher Education

Spring. 3(3-0)
R: Graduate students

Legal aspects of administrative practice in institutions of higher education including governance, academic freedom, due process, and anti-discrimination.

EAD 872A

Student Affairs in Collegiate Settings I

Fall. 3(3-0)
R: Graduate students

History, development, philosophy, organization and administration of collegiate student personnel as a profession. The college student as an individual. Services, programs and skills needed in the profession.

EAD 873A

Student Affairs in Collegiate Settings II

Spring. 3(3-0)
R: EAD 874A R: Graduate students

College student services as members of groups. Peer and group influence, including the impact of diversity on behavior. Student disciplinary philosophy, and practice. Professional development of student affairs staff.

EAD 874B

Practicum in Student Affairs

Fall. Spring. 3(3-3) May enroll for a maximum of 4 credits.
R: MA program Education Student Affairs Supervised work experience in student affairs.

EAD 894A