

REQUIREMENTS FOR THE BA ECONOMICS MAJOR WITH ENVIRONMENTAL AND RESOURCE EMPHASIS UNIVERSITY OF COLORADO BOULDER

The Economics Major with Environmental and Resource Economics Emphasis is designed for qualified economics majors who have an interest in courses with an environmental policy perspective both within the Economics Department and in other departments. This program is recommended for Economics majors who are considering careers in local, state or federal government; in government agencies; environmental interest groups; non-governmental organizations focused on environmental policy; and in the private sector. Students completing this program will receive a certificate from the Economics Department upon graduation. Completing this emphasis does not provide a distinctive diploma/transcript.

The Environmental and Resource Emphasis may be added to the Economics major track after the student has completed at least two of the following intermediate-level courses (ECON 3070, 3080 and/or 3818), and attains at least a 3.0 GPA in the economics major and in two of the three stated courses. Students interested in adding this emphasis should contact their Economics advisor once they are in compliance with these conditions. All Economics and ancillary courses applied to the emphasis must be completed with grades of C- or better. A student's major GPA must be at or above 3.000 at the time of graduation for the emphasis certificate to be awarded.

Students must complete **at least 32 hours of Economics courses plus 9 hours of upper division environmental policy-related ancillary course work** from outside the Economics Department. ECON 1078 and 1088 do not count toward either the minimum economics credit requirement or the Econ major GPA calculation. With presentation of a course syllabus, the Associate Chair for Undergraduate Studies will consider topically relevant courses on a case-by-case basis for fulfillment of the required ancillary course work in substitution for those listed below. Please contact your Economics advisor for further assistance. Transfer students must complete at least 6 hours of this ancillary course work at the University of Colorado Boulder.

I. REQUIRED ECONOMICS COURSES

A. Lower Division – Econ. Requirements

ECON 2010 Principles of Microeconomics and ECON 2020 Principles of Macroeconomics (8 hrs.)

Lower Division - Math Requirements*

- Choose one
- Option 1 ECON 1088 Math Tools for Economists 2 (3 hrs.) *Prerequisite: ECON 1078, Math Tools for Economists 1*
 - Option 2 MATH 1330 Calculus for Social Sciences/Business (4 hrs.) *Prerequisite: MATH 1011, College Algebra*
 - Option 3 MATH 1300 Analytic Geometry and Calculus 1 (5 hrs.) *Prerequisite: MATH 1150, Pre-calculus Mathematics*
 - Option 4 Department-approved equivalents or substitutions

**For students matriculating before Fall 2017, an ALEKS Math Assessment Score of 61% is sufficient to enroll in ECON 1088 and MATH 1330. A Score of 76% is sufficient for MATH 1300. For students matriculating Fall 2017 and later, placement is based on assessed math background. However, discussion of appropriate math enrollment with an Economics advisor is highly recommended.*

B. Upper Division Requirements

- Take all
- ECON 3070 Intermediate Microeconomic Theory (4 hrs.) *Prerequisites: ECON 2010 & Calculus*
 - ECON 3080 Intermediate Macroeconomic Theory (3 hrs.) *Prerequisites: ECON 2020 & Calculus*
 - ECON 3818** Intro. to Economics Statistics with Computer Applications (4 hrs.) *Prerequisites: ECON 2020 & Calculus*
- Choice of
- ECON 4818 Intro. to Econometrics (3 hrs.) **OR** ECON 4848 Applied Econometrics (3hrs)
- Pre-requisites for both courses: ECON 3070 & ECON 3818*

⁺⁺*APPM 4520, APPM 4570, CHEN 3010, CVEN 3227, MATH 4520, CSCI 3022 are approved substitutes for ECON 3818. Students are not required to complete a replacement economics course when applying an approved substitute statistics course.*

C. Required Foundation Courses in Environmental Policy (6 hrs.)

- ECON 4535 Natural Resource Economics (3 hrs.)
- ECON 4545 Environmental Economics (3 hrs.)

D. Applications and Tools Courses in Environmental Policy (3 hrs.) *All courses are 3 credit hrs.*

- Choose one
- ECON 4211 Economics of the Government Sector
 - ECON 4221 Political and Public Choice Economics
 - ECON 4231 Practicum in Public Policy
 - ECON 4242 Urban Economics: The Economics of Cities
 - ECON 4555 Transportation Economics
 - ECON 4646 Topics in Health Economics
 - ECON 4784 Economic Development

E. Economics Elective Courses (3 hrs.)

3 credit hours of 4000-level economics electives. *Note: 6 hrs. required for those transferring six credits of micro and macro Principles courses.*

II. CREDIT HOURS OUTSIDE ECONOMICS

Students must also complete 9 hours of upper division course work in other departments. The following is a list of courses in other departments that may be used to satisfy this requirement. Students are responsible for completing the prerequisites needed for the courses they choose. With presentation of a course syllabus, the Associate Chair for Undergraduate Studies will consider topically relevant courses on a case-by-case basis for fulfillment of the required ancillary course work in substitution for any of those listed below. Transfer students must complete at least 6 hours of this ancillary course work at the University of Colorado Boulder.

NON-ECONOMICS COURSES (9 Hours)

<u>A. College of Arts & Sciences</u>		<u>Prerequisites</u>
ATOC 3600	Principles of Climate	One semester of calculus, ATOC 1050 and 1060
ATOC 4800	Policy Implications of Climate Controversies	ATOC 1060 or 3600
COMM 3370	Environmental Communication	Restricted to Juniors and Seniors
EBIO 3180	Global Ecology	EBIO 1210 and 1220
EBIO 3040	Conservation Biology	EBIO 2040 or EBIO 2640 or ENVS 2000*
EBIO 3110	Population and Community Ecology	EBIO 2040 or EBIO 2640*
ENST 4150	Energy Policy Project	Restricted to RASE-CERU Students Only ENVS/PHYS 3070 and ENVS 3621*
ENVS 3022	Climate Politics and Policy	ENVS 1000 or GEOG 1972*
ENVS 3032	Environment Media and Society	ENVS 1000*
ENVS 3040	Conservation Biology	EBIO 2040 or EBIO 2640*
ENVS 3064	Environmental Political Theory	
ENVS 3070	Energy and the Environment	
ENVS 3140	Environmental Ethics	Sophomore standing
ENVS 3520	Energy and Climate Change: An Interdisciplinary Approach	Two Course Natural Science Sequence*
ENVS 3525	Intermediate Environmental Problem Analysis: Topical Cornerstones	ENVS 3020*
ENVS 3555	Sustainable Economies	ECON 2010 or ECON 2020*
ENVS 3600**	Principles of Climate	Same as ATOC 3600/GEOG 3601
ENVS 3621	Energy Policy and Society	
ENVS 3640	Data Analysis for Global Environmental Affairs	
ENVS 4027	Inequality, Democracy and the Environment	Restricted to juniors and seniors
ETHN 4233	Native American and Indigenous Environmental Issues	ETHN 1023 or ETHN 2013*
GEOG 3422	Conservation Thought	
GEOG 3601**	Principles of Climate	Same as ATOC 3600/ENVS 3600
GEOG 3662	Economic Geography	
GEOG 4501	Water Resources and Water Management in the Western US	
GEOG 4742	Environments and Peoples	Restricted to juniors and seniors
GEOG 4822	Environment and Development in China	
GEOG 3022	Climate Politics and Policy	ENVS 1000 or GEOG 1972*
GEOG 3422	Political Ecology	GEOG 1972*
GEOG 3682	Geography of International Development	GEOG 1962 or GEOG 1972 or GEOG 1982 or GEOG 1992 or GEOG 2092*
GEOG 3692	Introduction to Global Public Health	
GEOG 4812	Environment and Development in South America	GEOG 1962 or GEOG 1982 or GEOG 1992 or GEOG 2092 or GEOG 3812 or GEOG 3422 or ANTH 3110 or PSCI 3032*
GEOL 3040	Global Change: The Recent Geological Record	
GEOL 3070	Introduction to Oceanography	1000-level ATOC or GEOL Course*
GEOL 3130	Global Warming Understanding the Forecast	
GEOL 3520	Energy and Climate Change: An Interdisciplinary Approach	

<u>A. College of Arts & Sciences (cont.)</u>		<u>Prerequisites</u>
GEOL 3500	Earth Resources and the Environment	GEOL 1010 or 1060
GEOL 3520	Energy and Climate Change	Same as ENVS 3520
IAFS 3640	Data Analysis for Global Environmental Affairs	
INVS 3000	Innovative Approaches to Contemporary Issues through Services Learning	Upper division status*
INVS 3402	Implementing Social and Environmental Change	
PHIL 3140	Environmental Ethics	Same as ENVS 3140
PHYS 3000	Science and Public Policy	Completion of core science requirement*
PHYS 3070	Energy and the Environment	Same as ENVS 3070
PSCI 3064	Environment Political Theory	PSCI 2004*
PSCI 3071	Urban Politics	PSCI 1101
PSCI 3206	The Environment and Public Policy	PSCI 1101, restricted to sophomores, juniors and seniors
PSCI 3271	Law and Society: The Interaction between Legal Institutions and Human Behavior	PSCI 1101
PSCI 4106	Issues and Challenges in American Green Energy Policy	
PSCI 4783	Global Issues	PSCI 2012 or PSCI 2223*
SOCY 3141**	Social Movements in the U.S.	SOCY 1001, and 3001 or 3011
SOCY 4007	Global Human Ecology	
SOCY 4027	Inequality, Democracy and the Environment	Same as ENVS 4027
SOCY 4030	Sociology of Climate Change	Restricted to Juniors and Seniors
SOCY 4047	Topics in Environment and Society	
SOCY 4117	Food and Society	Restricted to Juniors and Seniors

*Recommended prerequisites.

**Enrollment in these courses controlled by specific major departments. Contact respective department advisors for assistance.