

Student Name: EcoJoe Waterson Perm: 5555555

EMPHASIS IN ECONOMICS AND ENVIRONMENTAL SCIENCE – 2014-15

Only currently enrolled UCSB students in the Department of Economics or the Bren School of Environmental Science and Management may apply for admission into the Economics and Environmental Science emphasis. A prerequisite for admission to the emphasis is the successful completion of the core course sequence in microeconomics and econometrics (ECON 210A-B-C, ECON 241 A-B-C) and the achievement of a Ph.D.-pass on the preliminary examination in these areas.

The EES emphasis is a joint undertaking of the UCSB Department of Economics and the Bren School, administered through the Bren School. The goal of the emphasis is to provide a new model for doctoral training in environmental and resource economics. EES students receive Ph.D.-level training in economics and a companion area of natural science (climate, hydrology, applied ecology, and marine science are examples). Students who pursue this option acquire a deep and expert knowledge of economics, as well as an understanding and appreciation of the research questions and methods of a natural science that complements their economics research.

Once admitted and in consultation with their respective faculty advisor, students are expected to begin defining an area of natural science in which they will establish competency. Typically, a student will complete 4-6 formal classes, seminars and directed readings, ideally supplemented with lab meetings and summer research.

Procedurally, students identify a natural science faculty member to serve as a mentor and then identify an area of natural science consistent with the interests and expertise of that mentor. Examples of specialization areas include applied ecology, climate, hydrology, and marine science. A student's area of natural science specialization and his/her plan for establishing competency should be approved within a year of being admitted to the EES emphasis.

REQUIRED COURSES			
FIELD ONE: ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS - Complete the three-course graduate sequence			
COURSE #	COURSE NAME	UNITS	GRADE
ECON 260A	Natural Resources	4.0	A
ECON 260B	Environmental Economics	4.0	A
ECON 260C	Collective Action and Open Access	4.0	A
FIELD TWO – Establish proficiency in a second field of economics (in addition to environmental and natural resource economics) as defined by the Department of Economics, or alternatively, design a custom field with the following components: the existence of a significant body of economic literature, sufficient breadth to be recognized as a field for teaching or research, and the availability of Ph.D.-level coursework in support of the field.			
COURSE #	COURSE NAME	UNITS	GRADE
Econ 249	Dynamic Optimization	4	A
Econ 230B	Public Finance	4	A
Econ 242	Advanced Game Theory	4	S

REQUIRED SEMINARS			
COURSE #	COURSE NAME	UNITS	GRADE
ESM 595PB	Group Studies	1-4	S
ECON 594ER	Special Topics in Economics - Environmental and Natural Resource Economics	1-5	S
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ECON 594ER	Special Topics in Economics - Environmental and Natural Resource Economics	1-5	S

NATURAL SCIENCE COMPETENCY			
Mentor: <u>Naomi Tague</u>			
Area of Specialization: <u>Groundwater Management</u>			
ESM 225	Water Policy	4	A
ESM 215	Landscape Ecology	4	S
ESM 236	Mountain Snowpack	3	A
ESM 266	Remote Sensing	4	S
ESM 294	Natural Resource Law & Policy	2	S

DISSERTATION

The dissertation is the most important product of a student's Ph.D. program and should be an original contribution to knowledge. Although the expectation is that a student's dissertation be a contribution to economics, the specific subject of the dissertation is a matter between the student and his or her Ph.D. committee.

VERIFICATION OF COMPLETION

EMPHASIS REQUIREMENTS SATISFIED (DATE): 5/6/14

EMPHASIS DIRECTOR SIGNATURE: _____

PRINT NAME: Chris Costello