

Student Name: _____ Perm: _____

EMPHASIS IN ECONOMICS AND ENVIRONMENTAL SCIENCE – 2022-23

Only currently enrolled UCSB Ph.D. 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). Students who pursue this emphasis 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 to the Ph.D. program and in consultation with their respective faculty advisor(s), students are expected to begin defining an area of natural science in which they will establish competency. Typically, a student will complete 4-6 courses, seminars and directed readings, ideally supplemented with lab meetings and summer research.

Procedurally, EES 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 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 Must complete 16 units, including at least 8 units from the core courses listed below. | | | |
| COURSE # | COURSE NAME | UNITS | GRADE |
| ECON 260D | Natural Resource Economics: Dynamic Programming Methods | 2.0 | |
| ECON 260E | Natural Resource Economics: Continuous-Time Methods | 2.0 | |
| ECON 260F | Demand for Environmental Goods | 2.0 | |
| ECON 260G | Environmental Externalities and Regulation | 2.0 | |
| ECON 260H | Climate Change, Adaptation, and Policy | 2.0 | |
| ECON 260I | Time, Uncertainty, and Environmental Policy | 2.0 | |
| ECON 260J | Environmental Macroeconomics | 2.0 | |
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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.

[illegible]

REQUIRED SEMINARS – Must complete one quarter of ESM 514 and four quarters of ECON 290

| COURSE # | COURSE NAME | UNITS | GRADE |
|------------|--|-------|-------|
| ESM 514 | Collaborative Interdisciplinary Research | 4 | |
| ECON 594ER | Special Topics in Economics - Environmental and Natural Resource Economics | 4 | |
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NATURAL SCIENCE COMPETENCY – Must complete a minimum of four courses

Natural Science Faculty Advisor: _____

Natural Science Faculty Advisor Signature: _____ DATE: _____

Area of Specialization: _____

[illegible]

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 their Ph.D. committee.

VERIFICATION OF COMPLETION

EMPHASIS REQUIREMENTS SATISFIED (DATE): _____

EMPHASIS DIRECTOR SIGNATURE: _____

EES EMPHASIS DIRECTOR SIGNATURE: _____ DATE: _____

HOME DEPARTMENT GRADUATE ADVISOR: _____

HOME DEPARTMENT GRADUATE ADVISOR SIGNATURE: _____ DATE: _____

HOME DEPARTMENT FACULTY ADVISOR: _____

HOME DEPARTMENT FACULTY ADVISOR SIGNATURE: _____ DATE: _____