Economics Ph.D. Program Specialization Coursework

Students are required to complete a minimum of 28 *unique* units of advanced coursework in their second year of the Ph.D. program, not counting new seminars. The courses taken must fulfill the requirements for at least two fields they wish to specialize in. A course may count for more than one field, but 28 unique units from the UCSB Economics department are required. Core and Elective courses offered for each specialization are listed in the table below. **All classes are 2 units (i.e., half a quarter of instruction) unless specified otherwise, and classes with an asterisk will be offered in the 2023/4 academic year.** A repository of class syllabi is available at https://tinyurl.com/3y4mu29y.

Fulfilling Requirements for a Specialization

- If a specialization offers elective classes, students must complete 16 units in total. At least 8 of these units must come from core courses.
- If a specialization does not offer elective classes, students must complete 12 units in total. All 12 units must come from core courses.
- A passing grade of B or better is required for a course to count towards a field of specialization or elective.

Field	Core Courses		Elective Courses	
Macroeconomics **16 total units. At least 8 Core units required.**	214A 228 253A 253B 227	Economic Development* (4 units) Aggregate Economics* (4 units) Job Search Theory Topics in Search and Marketing Computational Methods for Macroeconomics* (4 units)	260E 260G 260I 230A 230B 245N	Natural Resource: Continuous-Time Methods* Environmental Externalities and Regulation Time, Uncertainty, and Environmental Policy* Public Economics I* Public Economics II* Causal Machine Learning* (4 units)
Experimental and Behavioral Economics **16 total units. At least 8 Core units required.**	278A 278B 278C 278H 214C	Experimental Methods* Games in the Laboratory* Individual Decision Making in the Laboratory* Attention and Perception* Behavioral Development Economics*	245J 260I 230A	Field Experiments* Time, Uncertainty, and Environmental Policy* Public Economics I*
Econometrics **12 Core units required**	245B 245E 245F 245G 245H 245I 245J 245L 245M 245N	Time Series Econometrics Introduction to Bayesian Econometrics Generalized Method of Moments and Instrumental Variables Panel Data and Difference-in-Differences* Clustering, Bootstrapping, and Multiple Comparisons* Regression Discontinuity Designs Field Experiments* Nonparametric Econometrics* Data Wrangling* Causal Machine Learning* (4 units)	*No Electives for this field*	

Field	Code	Course	Code	Course
Environmental and Natural Resource Economics **16 total units. At least 8 Core units required.**	260D 260E 260G 260I 260K 230A	Natural Resource: Dynamic Programming Methods* Natural Resource: Continuous-Time Methods* Environmental Externalities and Regulation Time, Uncertainty, and Environmental Policy* Environmental and Development Economics Public Economics I*	214C 230B 230C 230D 245G 245H 245I 245J 245L 245M 245N 227	Behavioral Development Economics* Public Economics II* Individual Taxation* Capital Taxation* Panel Data and Difference-in- Differences* Clustering, Bootstrapping, and Multiple Comparisons* Regression Discontinuity Designs Field Experiments* Nonparametric Econometrics* Data Wrangling* Causal Machine Learning* (4 units) Computational Methods for Macroeconomics* (4 units)
Labor Economics **16 total units. At least 8 Core units required.**	250D 250E 250F 250G 250H 250I 250J 230I 230J 250K 214C	Population Economics* (4 units) Labor Supply* Labor Demand and Wage Differentials Economics of Education* Human Capital* Personnel Economics* Empirical Search and Recruiting Health Economics* Health Economics II* Personnel Economics II* Behavioral Development Economics*	245F 245G 245H 245I 245J 245L 245M 245N	Generalized Method of Moments & Instrumental Variables Panel Data and Difference-in-Differences* Clustering, Bootstrapping, and Multiple Comparisons* Regression Discontinuity Designs Field Experiments* Nonparametric Econometrics* Data Wrangling* Causal Machine Learning* (4 units)
Public Economics **16 total units. At least 8 Core units required.**	230A 230B 230C 230D 230F 230G	Public Economics I* Public Economics II* Individual Taxation* Capital Taxation* Behavioral Public Finance Tax Incidence	214C 245F 245G 245H 245I 245J 245L 245M 230I 230J 260I 260G 250D	Behavioral Development Economics* Generalized Method of Moments and Instrumental Variables Panel Data and Difference-in-Differences* Clustering, Bootstrapping, and Multiple Comparisons* Regression Discontinuity Designs Field Experiments* Nonparametric Econometrics* Data Wrangling* Health Economics* Health Economics II* Time, Uncertainty, and Environmental Policy* Environmental Externalities and Regulation Population Economics* (4 units)
Notes	245M	Data Wrangling – Counts towards Econometrics Field in 2023-4 only.		