Environmental Economics Concentration (EE)

ESS students with a concentration in Environmental Economics will use economic principles to understand the interrelation between society and the environment and study how environmental policies should be structured to address the environmental challenges by understanding behavioral responses of economic agents to these policies.

Learning Goals: Students will learn (1) how and why markets can fail in allocating scarce resources such as the environment, energy, and natural resources; (2) how economic principles can be used to promote environmental protection and the optimal and sustainable use of natural resources; and (3) how policy instruments such as subsidies, taxes and cap-and-trade programs can improve environmental quality by incentivizing economic agents to reduce pollution and develop and adopt clean technologies.

Course Requirements: Seven courses beyond the ESS core requirements.
AEM 2500: Environmental and Resource Economics, to be taken within the core curriculum

Required
- MATH 1110: Calculus I (F, S, Su)
- ECON 1110: Introductory Microeconomics (F, W, S, Su)
- ECON 1120: Introductory Macroeconomics (F, W, S, Su)
- ECON 3030: Intermediate Microeconomics (F, S, Su)

Two from the following three courses
- AEM 4500: Resource Economics (S)
- AEM 4510: Environmental Economics (S)
- AEM 4940: Business and Economics of Energy (F)

One from the following data analysis/econometrics courses
- AEM 4110: Introduction to Econometrics (F)
- ECON 3120: Applied Econometrics (F, S, Su)
- ECON 3140: Econometrics (S)
- IILRST 2110: Statistical Methods for Social Sciences II (S)
- HADM 3740: Fundamentals of Database Mgmt. and Data Analysis (S)
- PLSCS 2200: Introduction to Mapping and Spatial Analysis with GIS (F)
- STSCI 4060: Python Programming and Its Applications in Statistics (S)
- HADM 4010: Data-Driven Analytics (F)