



# ECG 716: Topics In Environmental & Resource Economics

In spring 2018, this course will focus on natural resource economics and management. We will study the economic literature on resource management and bioeconomics. In the first half of the course, students will obtain foundational skills in the mathematical modeling of resource dynamics, and will apply dynamic optimization methods to model the extraction and harvesting behavior of individual resource users and obtain optimal resource management policies. The second half of the course will cover a variety of the most cutting-edge topics in the literature including: adaptive management, partially observable Markov decision processes, ‘bioeconometrics,’ dynamic optimization of disease spread and evolutionary processes, natural capital theory, and quantitative treatments of sustainability.

Spring 2018

Time: TBA

Professors  
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Zack Brown

Questions:  
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Prerequisites:  
ECG 715 or permission  
of instructor

*Students should have  
working knowledge of  
differential equations  
& mathematical  
optimization*

