

ENGR 597, Section 001: Engineers and Scientists Shaping Policy

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Tuesdays and Thursdays at 4:35 – 5:50 p.m.

306 Hammond



Policy influences and is influenced by science and technology. This course is intended to provide students with knowledge and skills to integrate policy implications into their engineering and scientific research design and to prepare students to be effective agents of change, as engineers and scientists, in both public and private policy. Students will explore policy for science and science for policy, examining position statements and practice guidance issued by the professional organizations and societies relevant to their engineering and scientific discipline. Students will become familiar with theories of policy analysis, with mechanisms that set science policy, and with science policymaking bodies and influencers. Students will learn how to use and communicate technical expertise to help address policy problems on different scales (e.g., local, state, national, and global) and how to integrate ethical, legal, social, and policy components into their own research approach. Assignments will enable students to apply their developing STEM expertise and consider current policy issues through preparation of, for example, ELSI research grant proposals, commentaries, advocacy letters, responses to governmental requests for information, comments on proposed rulemaking, technical assistance on legislation, stakeholder memos, and amici briefs. This course is offered as part of the Law, Policy, and Engineering (LPE) initiative and is ideal for engineers and scientists who seek an understanding of how to engage with the policymaking process and how to advance innovative research with broad societal impacts in mind.

To enroll, the class number is 28154.