

INITIATIVE FOR SUSTAINABILITY & ENERGY AT NU (ISEN)

ISEN 210-0 Introduction to Sustainability: Challenges and Solutions (1 Unit) Introduction to using lifecycle systems perspectives in forming evaluations and basic quantitative understandings of the challenges and potential solutions that exist for sustainable societies; framing these in the context of resource use, energy consumption and development, and environmental constraints. *Social Behavioral Sciences Distro Area*

ISEN 220-0 Introduction to Energy Systems for the 21st Century (1 Unit) Overview of energy issues in the context of global sustainability: energy demands for industrial, transportation, housing, and commercial uses, strategies for demand reduction, traditional versus renewable energy systems. *Natural Sciences Distro Area*

ISEN 230-0 Climate Change and Sustainability: Ethical Dimensions (1 Unit) Interdisciplinary analysis of economic and ethical issues concerning climate change; scientific evidence for anthropogenic global warming; economics and ethics of resource use, conservation practices, and sustainability. ISEN 230-0 taught with PHIL 270-0; students may not earn credit for both courses. *Ethics Values Distro Area*

ISEN 350-SA Energy Technology & Policy in China (1 Unit) Examines the energy landscape in China, including an overview of various energy technologies, national policies, practical applications, and future innovations, through lectures and field trips in the US and China. Restricted to students in Northwestern's China program.

ISEN 390-0 Special Topics in Energy & Sustainability (1 Unit) Focused exploration of specific topical themes, trends, and challenges in applied energy and sustainability. Content varies each year; previously offered topics include geographic information systems and the impact of energy systems on the geographic distribution, wellbeing, and social organization of societies. May be repeated for credit with change in topic.

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