课程名（Coursename）

Applications of Technology in Energy and the Environment

课程代码（Coursenumber）

5.00

课程对象（Audience）

Graduate

Engineering School-Wide Elective Subject

H-level Grad Credit

选课前提（prerequisite）

Permission of instructor

单元（units）

3-0-9

开课教师（Teacher）

J. Deutch, R. Lester

学期（Semester）

fall term

课程描述（Description）

Introduces advanced undergraduates or graduate students in the Schools of Engineering and Science to the integration of technical, economic, political, and environmental consideration required for the successful implementation of new technology. Case studies are drawn from the energy and environment sectors with some emphasis on analytic techniques that serve as a "tool box" for students. Technologies considered include fossil, nuclear, solar, wind, fuel cell and energy conservation. International aspects, such as weapons proliferation and global climate effects, also discussed. Enrollment limited.

课时信息（Totalhours）

教参信息（Textbookinfo）

1 Making Technology Work: Applications in Energy and the Environment by John M. Deutch and Richard K. Lester (Paperback - Nov. 10, 2003)

Publisher: Cambridge University Press; illustrated edition edition (November 10, 2003)

ISBN-13: 978-0521523172

世界各地拥有馆藏的图书馆（OCLC）:291

2 Wind Energy Explained: Theory, Design and Application by James F. Manwell, Jon G. McGowan, and Anthony L. Rogers (Hardcover - Feb. 22, 2010)

Publisher: Wiley; 2 edition (February 22, 2010)

ISBN-13: 978-0470015001

世界各地拥有馆藏的图书馆（OCLC）:119

3 Guidelines for the Economic Analysis of Renewable Energy Technology Applications: Based on the Findings of the International Energy Agency Workshop by International Energy Agency (Paperback - July 1991)

Publisher: Organization for Economic (July 1991)

ISBN-13: 978-9264134812

4 Natural Gas Technologies: Energy Security, Environment, and Economic Development by Organisation for Economic Co-Operation and Development (Paperback - Oct. 30, 1994)

Publisher: Organization for Economic (October 30, 1994)

ISBN-13: 978-9264142343

5 Handbook of Bioenergy Crops: A Complete Reference to Species, Development and Applications by Nasir El Bassam (Hardcover - Mar. 2010)

Publisher: Earthscan Publications Ltd.; 1 edition (March 2010)

ISBN-13: 978-1844078547

世界各地拥有馆藏的图书馆（OCLC）:31

6 Lighting for Energy Efficient Luminous Environment by Ronald N. Helms and M. Clay Belcher (Hardcover - Apr. 1991)

Publisher: Prentice Hall (April 1991)

ISBN-13: 978-0134515687

7 Economics and Ecological Risk Assessment: Applications to Watershed Management (Environmental and Ecological Risk Assessment) by Randall J. F. Bruins and Matthew T. Heberling (Hardcover - Dec. 28, 2004)

Publisher: CRC Press; 1 edition (December 28, 2004)

ISBN-13: 978-1566706391

世界各地拥有馆藏的图书馆（OCLC）:158

8 Computerized Basin Analysis: The Prognosis of Energy and Mineral Resouces (Computer Applications in the Earth Sciences) by Jan Harff and Daniel F. Merriam (Hardcover - July 31, 1993)

Publisher: Springer; 1 edition (July 31, 1993)

ISBN-13: 978-0306444999

9 CHEMISTRY, ENERGY AND THE ENVI (Special Publications) by C.A.C Sequeira (Hardcover - May 22, 1998)

Publisher: Royal Society of Chemistry; 1 edition (May 22, 1998)

ISBN-13: 978-0854047031

10 Handbook for cleaning/decontamina... of surfaces by Ingegard Johansson and P. Somasundaran (Hardcover - Aug. 9, 2007)

Publisher: Elsevier Science; 1 edition (August 9, 2007)

ISBN-13: 978-0444516640

世界各地拥有馆藏的图书馆（OCLC）:36