



Siebel Energy Grand Challenge Initiative Courses of Interest – Fall 2009 Courses



- AOS 527/GEO 527: Atmospheric Radiative Transfer - Venkatachalam Ramaswamy
- AOS 571: Introduction to Geophysical Fluid Dynamics – Geoffrey K. Vallis
- ARC 406/ ENV 406: Energy and Form (STX) – Hillary A. Brown
- ARC 514: The Environmental Engineering of Buildings, Part I – Mahadev Raman
- AST 555: Fusion Plasmas and Plasma Diagnostics – Phillip C. Efthimion, Richard P. Majeski
- CEE 102A / EGR 102A / MAE 102A: Engineering in the Modern World (HA) – David P. Billington, Michael G. Littman
- NEW!** CEE 305 / GEO 375: Environmental Fluid Mechanics – Elie Bou-Zeid
- NEW!** CEE 311: Global Air Pollution – Mark A. Zondlo
- CEE 471 / GEO 471 / URB 471: Introduction to Water Pollution Technology – Peter Jaffe
- CEE 472: Hydrometeorology and Remote Sensing – James A. Smith
- CEE 477: Engineering Design for Sustainable Development – Robert H. Harris
- CEE 501: Environmental Engineering Fundamentals I: Atmospheric and Surface Processes – Mark A. Zondlo
- CEE 599: Special Topics in Environmental Engineering and Water Resources – Carbon Capture & Geologic Sequestration – Michael A. Celia, Catherine A. Peters
- CEE 599B: Special Topics in EEWR: Research Topics in Ecohydrology – Environmental Biophysics – Kelly K. Caylor
- CHE 341: Mass, Momentum, and Energy Transport – Sankaran Sundaresan
- CHE 503: Advanced Thermodynamics – Pablo G. Debenedetti
- NEW!** CHM 425: The Chemical Biology of Energy Production – Gerard C. Dismukes
- CHM 524: Topics in Inorganic Chemistry – Photochemistry for Energy Conversion – Andrew B. Bocarsly
- NEW!** EGR 495: Special Topics in Entrepreneurship: A Collaboratory for Social Entrepreneurship (SE Lab) – Professor Gordon Bloom, Dean's Visiting Professor in Entrepreneurship; Founder, Stanford & Harvard SE Labs
- NEW!** ELE 382: Distributed Algorithms and Optimization Methods for Engineering Applications – Mung Chiang
- ELE 431 / EGR 431 / ENV 431 / MAE 431: Solar Energy Conversion (QR) – Emily A. Carter, Sigurd Wagner
- ENV 201A: Fundamentals of Environmental Studies: Population, Land Use, Biodiversity, and Energy – Lars O. Hedin, David S. Wilcove
- ENV 305: Topics in Environmental Studies – Building American Style: Land-Use Policies and Rules – Deborah E. Popper, Frank J. Popper
- ENV 307: Agriculture and Food: A Foundation for Living – Xenia K. Morin
- ENV 531: Topics in Energy and the Environment – Introduction to Petroleum Engineering – Kate Baker
- NEW!** ENV ST04: Environmental Entrepreneurship – George E. van der Vink



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NEW! GEO 102A / ENV 102A and GEO 102B / ENV 102B: **Climate: Past, Present, and Future** – Michael L. Bender, Daniel M. Sigman, Geoffrey K. Vallis

GEO 297 / ENV 399: **Environmental Decision Making (QR)** – Gregory E. van der Vink

NEW! GEO 361 / CEE 360 / ENV 361: **Physics of the Ocean and Atmosphere** – George H. Philander

GEO 363 / CHM 331 / ENC 331: **Environmental Geochemistry: Chemistry of the Natural Systems (STX)** – Satish C. B. Myneni

GEO 425 / MAE 425: **Introduction to Physical Oceanography** – Anand Gnanadesikan

GEO 499 / ENV 499: **Environmental Change, Poverty and Conflict** – Gregory E. van der Vink

NEW! HIS 431 / ENV 433: **Comparative Environmental History (HA)** – Emmanuel H. P. M. Kreike

MAE 221: **Thermodynamics (ST)** – Daniel M. Nosenchuck, Alexander J. Smits, Michael Vocaturo

MAE 228 / CHE 228 / EGR 228: **Energy Solutions for the Next Century** – Jay B. Benziger, Yiguang Ju

MAE 324: **Structure and Properties of Materials** – Craig B. Arnold

MAE 335: **Fluid Dynamics** – Luigi Martinelli

MAE 423: **Heat Transfer** – Frederick L. Dryer

MAE 527: **Physics of Gases** – Szymon Suckewer

NES 201 / HIS 223: **Introduction to the Middle East (HA)** – Michael A. Cook

NES 269 / POL 353: **The Politics of Modern Islam (HA)** – Bernard A. Haykel

NES 315: **War and Politics in the Modern Middle East (SA)** – Michael A. Reynolds

ORF 467: **Transportation** – Alain L. Kornhauser

PHY 301: **Thermal Physics (STX)** – Lyman A. Page

PHY 406: **Modern Physics II: Nuclear and Elementary Particle Physics** – Valerie Halvo

POL 364 / NES 322: **Political Systems of the Middle East (SA)** – Amenity A. Jamal

WWS 581C: **Topics in Economics – Energy Economics** – Amy B. Craft

For more information, contact Princeton Environmental Institute, Pascale Maloof Poussart, Assistant Director – Energy Initiatives, 144 Guyot Hall, (609) 268-7050, poussart@princeton.edu