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## Sustainability-Related Courses

## CENTER FOR AFRICAN AMERICAN STUDIES

Course Number	Course Name	Faculty
AAS 403/ANT 403	Race and Medicine	Rouse, Carolyn

## AFRICAN STUDIES

Course Number	Course Name	Faculty
AFS 200	Introduction to African Studies	Rubenstein, Daniel
AFS 303	Social Structure in Africa: Responses to Socio-Political and Economic Forces Since Independence	Agawu, Christina
AFS 374	African Development and Globalization	Sagna, Mahamadou L.

## ANTHROPOLOGY

Course Number	Course Name	Faculty
EAS 320/ANT 230/ENV 230	Culture and Environment in East Asia	Takahashi, Satsuki
ANT 335	Medical Anthropology	Biehl, Joao
AAS 403/ANT 403	Race and Medicine	Rouse, Carolyn
ANT 431	Biomedical Anthropology	Mann, Alan

## ARCHITECTURE

Course Number	Course Name	Faculty
ARC 304	The Historical Development of Urban Form (HA)	Boyer, M. Christine
ARC 401	Theories of Housing and Urbanism	Laing, A.
ARC 404	Advanced Studio Design	Andraos, Amale and Wood, Daniel
ARC 406/ENV 406	Energy and Form	Brown, Hilary
ARC 514	The Environmental Engineering of Buildings	Raman, Mahadev
ARC 515	The Environmental Engineering of Buildings, Part II	Raman, Mahadev
ARC 560	Topics in Contemporary Architecture and Urbanism - Politics of the Building Envelope	Zaera-Polo, Alejandro
ARC 566	Materials Ecology	Harrison, Jane C.

## ASTROPHYSICAL SCIENCES

Course Number	Course Name	Faculty
AST 358	Seminar in Plasma Physics	Fisch, Nathaniel J. and Reiman, Allan H.
AST 551/MAE 525	General Plasma Physics I	Fisch, Nathaniel and Qin, Hong
AST 555	Fusion Plasmas and Plasma Diagnostics	Efthimion, Philip and Majeski, Richard
MAE 522/AST 564	Applications of Quantum Mechanics to Spectroscopy and Lasers	Suckewer, Szymon

## ATMOSPHERIC AND OCEANIC SCIENCES

Course Number	Course Name	Faculty
AOS 523	Water in the Atmosphere	Fueglistaler, Stephen
AOS 527 / GEO 527	Atmospheric Radiative Transfer	Ramaswamy, Venkateshchalam
AOS 537/GEO 537	Atmospheric Chemistry	Horowitz, Larry W.
AOS 547	Thermodynamics and Convection	Leo Donner
AOS 571	Introduction to Geophysical Fluid Dynamics	Garner, Stephen
AOS 572	Atmospheric and Oceanic Wave Dynamics	Legg, Sonya A.; Orlandi, Isidoro; Valis, Geoffrey K.
AOS 575	Numerical Prediction of the Atmosphere and Ocean	Halberg, Robert W.
AOS/GEO 578	Chemical Oceanography	Sarmiento, Jorge
CEE 593/ AOS 593	Aerosol Observations and Modeling	Ginoux, Paul and Zondlo, Mark

## CHEMICAL AND BIOLOGICAL ENGINEERING

Course Number	Course Name	Faculty
CBE 440	The Physical Basis of Human Disease	Nelson, Celeste
CBE 503	Advanced Thermodynamics	DeBenedetti, Pablo
CBE 546	Aerosol Physics and Chemistry	Russell, Lynne

## CHEMISTRY

Course Number	Course Name	Faculty
CHE 245	Intro to Chemical Engineering Principles	Loe, Wood
CHE 246	Thermodynamics (STX)	Panadiotopoulos, Athanassios Z.
CHE 341	Mass, Momentum, and Energy Transport	Sundaresan, Sankaran
CHE 346	Chemical Engineering Laboratory	Benziger, Jay B.; Sundaresan, Sankaran, Wood, David W.
GEO 418/CHM 418	Environment Aqueous Geochemistry	Morel, Francois
CHE 421/CHM 421	Catalytic Chemistry	Benziger, Jay
WWS 327/CHM 443	Pharmaceutical Research and Health Policy	Schutt, Clarence
CHE 505	Advanced Heat and Mass Transfer	Prud'homme, Robert K.
CHM 306	Physical Chemistry: Chemical Thermodynamics and Kinetics	Kelly, Michael T.
GEO 364/CHM 364	Earth Chemistry: The Major Realms of the Planet	Bender, Michael and Sigman, Daniel
CHM 440	Drug Discovery in the Genomics Era	Reider, Paul
CHM 544/ENV 544	Metals in Biology	Groves, J.

## CIVIL AND ENVIRONMENTAL ENGINEERING

Course Number	Course Name	Faculty
CEE 102A/EGR 102A/MAE 102A	Engineering in the Modern World	Billington, David and Littman, Michael
GEO 235/CEE 235	The Physical Earth (ST)	McQuarrie, Nadine
CEE 305/GEO 375	Environmental Fluid Mechanics	Bou-Zeid, Elie
CEE 306	Hydrology	Muneepeerakul, Rachata

CEE 306	Hydrology	Smith, James A.
MAE 223/CEE 323	Modern Solid Mechanics	Haalaja, Mikko
GEO 417/CEE 417/EEB 419	Environmental Microbiology	Ward, Bess B.
ELE 455/CEE 455/MAE 455	Mid-Infrared Technologies for Health and the Environment	Gmachl, Claire
CEE 460	Risk Assessment and Management	Vanmarcke, Enk
CEE 472	Hydrometeorology and Remote Sensing	Smith, James A.
CEE 501	Environmental Engineering Fundamentals I: Atmospheric and Surface Processes	Bou-Zeid, Elie and Zondlo, Mark
CEE 502	Environmental Engineering Fundamentals II: Surface and Subsurface Processes	Ceña, Michael, Caylor, Kelly and Peters, Catherine
GEO 523/CEE 572	Geomicrobiology	Onstott, Tullis C.
MSE 501/MAE 561/CEE 561	Introduction to Materials	Scherer, George
CEE 591	Radar Hydrometeorology	Smith, James A.
CEE 593/ AOS 593	Aerosol Observations and Modeling	Ginoux, Paul and Zondlo, Mark
CEE 599	Special Topics in Environmental Engineering and Water Resources: Analysis and Synthesis of Hydrologic Processes	Ginoux, Paul, Smith, James, and Zondlo, Mark
CEE 599	Special Topics in Environmental Engineering and Water Resources: Analysis and Synthesis of Hydrologic Processes	Rodriguez-Iturba, I.

**COMPUTER SCIENCE**

Course Number	Course Name	Faculty
ELE 482/COS 462	Design of Very Large Scale Integrated (VLSI) Systems	Verma, Naveen

**EAST ASIAN STUDIES**

Course Number	Course Name	Faculty
EAS 320/ANT 230/ENV 230	Culture and Environment in East Asia	Takahashi, Satsuki
ECO 379/EAS 346	The Chinese Economy	Chow, Gregory

**ECOLOGY AND EVOLUTIONARY BIOLOGY**

Course Number	Course Name	Faculty
EEB 321	Intro to Population and Community Ecology	Horn, Henry
EEB 327 / MOL 327	Immune Systems: From Molecules to Populations	Graham, Andrea
EEB 328/WWS 490	Ecology and Epidemiology of Parasites and Infectious Diseases	Dobson, Andrew and Grenfell, Bryan
EEB 332/LAS 350	Pre-Columbian Peoples of Tropical American and Their Environments (Panama)	Cooke, R. and Piperno, D.
EEB 346	Biology of Coral Reefs (Panama) (ST)	Pacala, Stephen
EEB 352	Restoration Ecology	Kahumbu, Paula
EEB 404	Natural History of Mammals (Africa) (ST)	Rubenstein, Daniel
GEO 417/CEE 417/EEB 419	Environmental Microbiology	Ward, Bess B.

**ECONOMICS**

Course Number	Course Name	Faculty
ECO 351	Economics of Development	Shiue, Carol
WWS 307/ECO 349	Economics and Public Policy	Bogan, E.
ECO 379/EAS 346	The Chinese Economy	Chow, Gregory

**ELECTRICAL ENGINEERING**

Course Number	Course Name	Faculty
ELE 203	Electronic Circuits (ST)	Pruncai, Paul
ELE 208	Semiconductor Devices, IC's, and Micro-Fabrication	Chou, Stephen and Silvestre, Conrad
ELE 341	Solid State Devices	Kahn, Antoine
ELE 441	Solid State Physics I	Lyon, Stephen
ELE 455/CEE 455/MAE 455	Mid-Infrared Technologies for Health and the Environment	Gmachl, Claire
ELE 462/COS 462	Design of Very Large Scale Integrated (VLSI) Systems	Verma, Naveen
ELE 541/ MSE 510	Electronic Materials	Sturm, James C. and Wagner, Sigurd
ELE 545	Electronic Devices	Chou, Stephen Y.
ELE 555	Selected Topics in Optics and Optical Electronics	Wysocki, Gerard
ELE 577	Low Power IC and System Design	Jha, Niraj K
ELE 580A	Advanced Topics in Computer Engineering - Green Information Technology	Marionosi, Margaret

**ENGINEERING**

Course Number	Course Name	Faculty
CEE 102A/EGR 102A/MAE 102A	Engineering in the Modern World	Billington, David and Littman, Michael
EGR 194/MAT 194/PHY 194	An Introduction to Engineering, Mathematics & Physics (ST)	Littman, Michael G. and Rexford, Jennifer L.
EGR 277/HIS 277/SOC 277	Technology and Society	Gordin, Michael
EGR 495	Special Topics in Entrepreneurship: Ventures to Address Global Challenges	Staff

**ENGLISH**

Course Number	Course Name	Faculty
ENG 386/ENV 386	Literature and Environment	Gleason, William

**ENVIRONMENTAL STUDIES**

Course Number	Course Name	Faculty
EAS 320/ANT 230/ENV 230	Culture and Environment in East Asia	Takahashi, Satsuki
ENV 305	Topics in Environmental Studies: Environmental Science Writing	Matthews, Anne M.

ENV 309	Historic American Gardens and Designed Landscapes: Art Meets Environmentalism	Maynard, W. Barksdale
ENG 388/ENV 386	Literature and Environment	Gleason, William
ARC 406/ENV 406	Energy and Form	Brown, Hilary

**FRESHMAN SEMINARS**

Course Number	Course Name	Faculty
FRS 120	Life on Mars--Or Maybe Not (SA)	Lemonick, Michael D. and Turner, Edwin Lewis
FRS 120	Art and Science of Motorcycle Design	Littman, Michael
FRS 162	Writing on the Environment and the Heirs of Thoreau	Strebelgh, F.

**GEOSCIENCES**

Course Number	Course Name	Faculty
GEO 103	Natural Disasters	Rubin, Allan M.
GEO 202	Ocean, Atmosphere, and Climate	Sarmiento, Jorge
GEO 202A/202B (ST)	Oceanography: An Introduction to the World's Oceans	Sarmiento, Jorge and Schmitt, Danielle M.
GEO 206 A/B	History of the Earth	Bender, Michael
GEO 235/CEE 235	The Physical Earth (ST)	McQuarrie, Nadine
GEO 364/CHM 364	Earth Chemistry: The Major Realms of the Planet	Bender, Michael and Sigman, Daniel
CEE 305/GEO 375	Environmental Fluid Mechanics	Bou-Zeid, Elie
GEO 417/CEE 417/EEB 419	Environmental Microbiology	Ward, Bess B.
GEO 418/CHM 418	Environment Aqueous Geochemistry	Morel, Francois
GEO 419/PHY 419	The Earth as a Physical System	Duffy, Thomas
GEO 420	Topics in Earth Sciences - Introduction to Atmospheric Sciences	Fueglistaler, Stephen
GEO 423	Introduction to Atmospheric Science: Dynamic Meteorology	Medvigy, David
GEO 424	Introduction to Seismology	Tromp, Jeroen
GEO 425/MAE 425	Intro to Physical Oceanography	Gnanadeskian, Anand
GEO 428	Biological Oceanography	Ward, Bess B.
GEO 499	Investigating Natural Hazards	van der Vink, Gregory
GEO 523/CEE 572	Geomicrobiology	Onstott, Tullis C.
AOS 527 / GEO 527	Atmospheric Radiative Transfer	Ramaswamy, Venkatachalam
AOS 537/GEO 537	Atmospheric Chemistry	Horowitz, Larry W.
GEO 538	Paleoclimatology	Bender, Michael and Valtis, Geoffrey
GEO 559	Topics in Earth History - A Tropical Perspective on Ice Ages	Philander, George
AOS/GEO 578	Chemical Oceanography	Sarmiento, Jorge

**GLOBAL HEALTH AND HEALTH POLICY**

Course Number	Course Name	Faculty
GHP 351	Critical Perspectives on Global Health and Health Policy	Singer, Burton; Paxson, Christina

		Lieberman, Evan
GHP 400/MOL 499	Seminar in Global Health and Health Policy	Mahmoud, Adel and Shenk, Thomas

**HISTORY**

Course Number	Course Name	Faculty
NES 201/HIS 223	Introduction to the Middle East (HA)	Cook, Michael
EGR 277/HIS 277/SOC 277	Technology and Society	Gordin, Michael
HIS 293	Science in a Global Context: 15th to 20th Century	Burnett, D. Graham
HIS 394	The Rise of Modern Biomedicine: Global Trends in Health and Healing, 1500-2000	Titley, Helen
HIS 395	History of Medicine and the Body	Guenther, Katja
NES 433/HIS 433	Imperialism & Reform in the Middle East and in the Balkans (HA)	Hanioglu, M. Sukru
HOS 594/HIS 594	History of Medicine: Medicine and the Making of the Modern Self	Guenther, Katja

**HISTORY OF SCIENCE**

Course Number	Course Name	Faculty
HOS 594/HIS 594	History of Medicine: Medicine and the Making of the Modern Self	Guenther, Katja

**JOURNALISM**

Course Number	Course Name	Faculty
JRN 447	Politics and the Media-Linking Science Journalism to Politics and Economics (SA)	Rosenthal, Elisabeth

**LATIN AMERICAN STUDIES**

Course Number	Course Name	Faculty
EEB 332/LAS 350	Pre-Columbian Peoples of Tropical American and Their Environments (Panama)	Cooke, R. and Piperno, D.

**MATERIALS SCIENCE/ENGINEERING**

Course Number	Course Name	Faculty
MSE 501/MAE 561/CEE 561	Introduction to Materials	Scherer, George
ELE 541/ MSE 510	Electronic Materials	Sturm, James C. and Wagner, Sigurd

**MATHEMATICS**

Course Number	Course Name	Faculty
EGR 194/MAT 194/PHY 194	An Introduction to Engineering, Mathematics & Physics (ST)	Littman, Michael G. and Rexford, Jennifer L.

**MECHANICAL AND AEROSPACE ENGINEERING**

Course Number	Course Name	Faculty
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CEE 102A/EGR 102A/MAE 102A	Engineering in the Modern World	Billington, David and Littman, Michael
MAE 221	Thermodynamics	Nosenchuck, Daniel
MAE 223/CEE 323	Modern Solid Mechanics	Haalaja, Mikko
MAE 324	Structure and Properties of Materials	Arnold, Craig B.
MAE 332	Aircraft Design	Martinelli, Luigi
MAE 335	Fluid Dynamics	Martinelli, Luigi
MAE 344	Introduction to Bioengineering and Medical Devices	Soboyejo, Winston
MSE 501/MAE 581/CEE 581	Introduction to Materials	Scherer, George
MAE 423	Heat Transfer	Dryer, Frederick
GEO 425/MAE 425	Intro to Physical Oceanography	Gnanadeskian, Anand
MAE 426	Rocket and Air-Breathing Propulsion Technology	Ju, Yiguang
ELE 455/CEE 455/MAE 455	Mid-Infrared Technologies for Health and the Environment	Gmachl, Claire
MAE 522/AST 584	Applications of Quantum Mechanics to Spectroscopy and Lasers	Suckewer, Szymon
AST 551/MAE 525	General Plasma Physics I	Fisch, Nathaniel and Qin, Hong
MAE 527	Physics of Gases	Suckewer, Szymon
MAE 531	Combustion	Law, Chung
MAE 532	Combustion Theory	Law, Chung
MAE 598	Graduate Seminar in Mechanical & Aerospace Engineering	Choueiri, Edgar Y.

**MOLECULAR BIOLOGY**

Course Number	Course Name	Faculty
MOL 205	Genes, Health, and Society	Rosenberg, Leon E.
WWS 320/MOL 320	Human Genetics, Reproduction, and Public Policy	Silver, Lee
EEB 327 / MOL 327	Immune Systems: From Molecules to Populations	Graham, Andrea
MOL 328/WWS 399	U.S. Medical Research and Researchers: Health, Hope, Hubris	Mahmoud, Adel and Rosenberg, Leon
MOL 340	Molecular and Cellular Immunology	Snyder, Aleksandra
MOL 380 A & B	Modern Microbiology and Disease	Snyder, Aleksandra
GHP 400/MOL 499	Seminar in Global Health and Health Policy	Mahmoud, Adel and Shenk, Thomas
MOL 559	Viruses: Strategy and Tactics	Enquist, Lynn

**NEAR EASTERN STUDIES**

Course Number	Course Name	Faculty
NES 201/HIS 223	Introduction to the Middle East (HA)	Cook, Michael
NES 283	People and Societies in the Modern Middle East	Schayegh, Cyrus
NES 433/HIS 433	Imperialism & Reform in the Middle East and in the Balkans (HA)	Hantoglu, M. Sukru

**OPERATIONAL RESEARCH AND FINANCIAL ENGINEERING**

Course Number	Course Name	Faculty
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ORF 474	Special Topics in Operations Research and Financial Engineering: Stochastic Methods for Quantitative Finance	van Handel, Ramon
<b>PHYSICS</b>		
<b>Course Number</b>	<b>Course Name</b>	<b>Faculty</b>
PHY 115A/115B	Future Physics (QR/ST)	Steinhardt, Paul J.
EGR 184/MAT 194/PHY 194	An Introduction to Engineering, Mathematics & Physics (ST)	Litman, Michael G. and Rexford, Jennifer L.
PHY 301	Thermal Physics	Page, Lyman
PHY 320	Theories of Psychotherapy	Comer, Ronald
PHY 406	Modern Physics II: Nuclear & Elementary Particle Physics	Halyo, Valerie
GEO 419/PHY 419	The Earth as a Physical System	Duffy, Thomas
PHY 511	Thermodynamics, Kinetic Theory and Statistical Mechanics	Sondhi, Shiva
<b>POLITICS</b>		
<b>Course Number</b>	<b>Course Name</b>	<b>Faculty</b>
POL 313	Global Justice	Beitz, Charles
POL 430	Seminar in Comparative Politics: Political Economy of Africa	Roberts, Tyson
WWS 598/POL 508	Epidemiology	Goldman, Noreen; Fisman, David; Singer, Burton
<b>SOCIOLOGY</b>		
<b>Course Number</b>	<b>Course Name</b>	<b>Faculty</b>
URB 201/SOC 203	Introduction to Urban Studies	Boyer, M. Christine
EGR 277/HIS 277/SOC 277	Technology and Society	Gordin, Michael
<b>SPANISH</b>		
SPA 108	Advanced Spanish ("Medical" section)	Souto-Portas, Maria Jose
SPA 207	Advanced Spanish ("Medical" section)	Moro, Alberto Bruzos
<b>SCIENCE AND TECHNOLOGY COUNCIL</b>		
<b>Course Number</b>	<b>Course Name</b>	<b>Faculty</b>
STC 349	Science Journalism (SA)	Lemonick, Michael
<b>URBAN STUDIES</b>		
<b>Course Number</b>	<b>Course Name</b>	<b>Faculty</b>
URB 201/SOC 203	Introduction to Urban Studies	Boyer, M. Christine
<b>WOODROW WILSON SCHOOL</b>		
<b>Course Number</b>	<b>Course Name</b>	<b>Faculty</b>
WWS 307/ECO 349	Economics and Public Policy	Bogan, E.



WWS 315	Bioethics and Public Policy	Shapiro, Harold
WWS 316	Health and the Environment	Singer, Burton
WWS 320/MOL 320	Human Genetics, Reproduction, and Public Policy	Silver, Lee
MOL 328/WWS 399	U.S. Medical Research and Researchers: Health, Hope, Hubris	Mahmoud, Adel and Rosenberg, Leon
WWS 327/CHM 443	Pharmaceutical Research and Health Policy	Schutt, Clarence
EEB 328/WWS 490	Ecology and Epidemiology of Parasites and Infectious Diseases	Dobson, Andrew and Grenfell, Bryan
WWS 528B	Topics in Domestic Policy Analysis - Applied Federalism in an Age of Limits: Case of NJ	Corzine, Jon and Zeitz, Joshua
WWS 555	Topics in International Relations: U.S. Public Policy & the Middle East	Bodine, Barbara
WWS 598/POL 508	Epidemiology	Goldman, Noreen; Fisman, David; Singer, Burton

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