List of W&M Sustainability Courses

In response to student requests for a sustainability course list, the COS Academic Programs working group has compiled a list of academic courses that include sustainability content or concepts. For the purposes of this project, sustainability includes the ability of a system (natural, physical, or human) to maintain its functions and processes over time, in addition to general issues of environmental stewardship. Courses on the list contain a minimum of 15% of course content relating in some way to sustainability.

This list was originally compiled from the results of the academic sustainability audit (Spring 2009) and was revised substantially as a result of faculty input solicited by Provost Michael Halleran (and sent to all university faculty) in October 2009.

We will continue to revise this course list through time, so as faculty change their courses or develop new courses, they can email Rowan Lockwood (rxlock@wm.edu) to revise their listings.

This list has been made available to W&M students as an attribute in Banner (labeled “Sustainability”) and as a list of courses on the sustainability website (www.wm.edu/sustainability).

In compiling this list, we excluded temporary topics courses and also did not include research, internship, practicum, independent study and case study sections, although many faculty mentor some form of sustainability research with students through such sections.

ARTS AND SCIENCES
American Studies
  • AMST 203 Medicine in America
Anthropology
  • ANTH 203 Introduction to Biological Anthropology
  • ANTH 310 Primate Behavior
  • ANTH 322 Archaeology of North America
  • ANTH 350 Ethnobotany
  • ANTH 315 Environmental Archaeology
Applied Science
  • APSC 150 Recycling Technology
  • APSC 201 Intro Materials Science
  • APSC 422 Materials Characterization
  • APSC 455 Population Dynamics
  • APSC 621 Applied Solid State Science
  • APSC 622 Materials characterization
  • APSC 623 Surface and Interfaces
Art & Art History
  • ART 319 Figure Modeling I
  • ART 320 Figure Modeling II
  • ART 325 Sculpture Mass
  • ART 420 Advanced Sculpture
Biology
• BIOL 105 Plants, People and Agriculture
• BIOL 108 Intro Ecology and Environmental Science
• BIOL 204 Principles of Biology I: Organisms, Ecology, Evolution
• BIOL 205 Integrative Biology II: Non-animals
• BIOL 416 Ornithology
• BIOL 417 Population and Community Ecology
• BIOL 426 Aquatic Ecology
• BIOL 427 Wetlands Ecosystems
• BIO 664 Advanced Topics in Plant Conservation
• BIOL ??? Conservation Biology

Chemistry
• CHEM 308 General Chemistry II for Life Sciences
• CHEM 341 Physical chemistry for Life Sciences

Computer Science
• CSCI 120: Computational Problem-Solving for Environmental Studies

Economics
• ECON 322 Environmental Economics
• ECON 382 Comparative Economics
• ECON 483 Development Economics
• ECON 484 Economics of Growth

English
• ENGL 150W Hot, Flat, and Crowded (Peterson)
• ENGL 362 The American Renaissance

Environmental Science & Policy
• ENSP 101 Introduction to Environmental Science and Policy
• ENSP 201/GEOL314 Watershed Dynamics
• ENSP 203Public Commons Workshop
• ENSP 204 Geographic Information Systems
• ENSP 205 Marine and Environmental Science
• ENSP 210 The Ethics of Sustainability: Beyond Environmentalism?
• ENSP 211 The Ethics of Globalization and Sustainability
• ENSP 250 Seminar topics in environmental science and policy
• ENSP 302 Philosophic History of American Environmentalism
• ENSP 303 Issues in Environmental Ethics
• ENSP 440 Asian Environmental Issues in 21st Century
• ENSP 440 Future Energy Choices
• ENSP 440 Sustainability and Agriculture
• ENSP 440/PUBP 635 Fundamental of Environmental Science for Policy
• ENSP 440/PUBP 390 Environment and Energy Regulation

Film Studies
• FILM 350 Section on environmental documentaries

Geology
• GEOL 101 The Dynamic Earth: Physical Geology
• GEOL 110 Physical Geography: Earth's Environmental System
• GEOL 150W Extinction is Forever
• GEOL 150W Double, double, oil and trouble
• GEOL 160 Investigating the Earth: Introductory Geology Laboratory
• GEOL 305 Environmental Geology
• GEOL 306 Marine Geology
• GEOL 312 Weather, Climate, and Change
• GEOL 315 Hydrology
• GEOL 316 Environmental Geochemistry
• GEOL 330 Introduction to Oceanography

Government
• GOVT 322 Global environmental governance
• GOVT 350 Intro to Public Policy
• GOVT 353 State & Local Government
• GOVT 381 Human Geography
• GOVT 454 Politics in Metro Areas
• GOVT 491 International organizations and Environmental Governance
• GOVT 491 Environmental Thought and Action
• GOVT 491 Global Civil Society and Environmental Governance
• GOVT 631 State & Local Policymaking

Hispanic Studies
• HISP 150W Ethical Fashion
• HISP 151 Words of the Earth
• HISP 320 Mexican Cinema
• HISP 360 Cultural Constructions of the Environment in Latin America
• HISP 390 Special Topics: Environmental Writing
• HISP 483 Issues in Farmworker Culture

History
• HIST 226/ENSP 249 American West since 1890
• HIST 181 African History
• HIST 490C Native Americans and Nature

Kinesiology
• KINE 164 Rock Climbing
• KINE 177 Winter Camping
• KINE 393 Health Ethics
• KINE 460 Principles in Outdoor Leadership
• KINE 200, Introduction to the Human Body
• KINE 303, Human Anatomy
• KINE 304, Human Physiology
• KINE 320, Issues in Health
• KINE 335, Play, Sport, & Culture
• KINE 350, Science of Nutrition
• KINE 360, Physiology of Aging
• KINE 380, Introduction to Clinical Practice
• KINE 410, Exercise in Public Health
• KINE 450, Cardiovascular Physiology
• KINE 485, Cellular and Biochemical Effects of Exercise
• KINE 494, Environmental Human Physiology

Physics
• PHYS 102 Introductory Physics
• PHYS 105 Great Ideas
• PHYS 150 Physics of energy and the environment

Psychology
• PSYC 202 Introduction to Psychology as a Social Science

Public Policy
• PUBP 800 Climate Change: Science, Policy and Law

Religious Studies
• RELG321 Ecology and Ethics

Sociology
• SOCL 328 Environmental Sociology
• SOCL 361: Social Movements and Social Change
• SOCL 427 Globalization and the Environment

Theatre, Speech, and Dance
• DANC 350-01: Physical Theatre
• THEA 350-01: Physical Theatre

MASON SCHOOL OF BUSINESS
• BUAD 300 Business Perspectives
• BUAD 311 Principles of Marketing
• BUAD 343 Legal Environment of Business
• BUAD 436 Business and Society
• BUAD 480 Sustainable Business Practices and Green Supply Chain Management
• BUAD 492 Sustainable Commerce and the Seas
• BUAD 570 & 571 Applied Data and Economic Analysis
• BUAD 595 Enterprise Engineering CAM

SCHOOL OF EDUCATION
• EDUC 305 Designs for Technology-Enhanced Learning—Secondary
• EDUC 330 Designs for Technology-Enhanced Learning—Elementary

SCHOOL OF LAW
• LAW 424/PUBP 628 Environmental Law
• LAW ??? Property law
• LAW ??? Natural Resources Law
• LAW 425/PUBP 633 Land Use Control
• LAW 498 Law Practice Management
• LAW 510 Special Topics in Environmental Law: Climate change: An emerging issue in land use (Butler)
• LAW 510 (Malone)
• LAW 602 Special Topics in International Law (Malone)
VIRGINIA INSTITUTE OF MARINE SCIENCE

- MSCI 330 Introduction to Oceanography
- MSCI 501A Fundamentals—Physical Oceanography
- MSCI 501B Fundamentals—Chemical Oceanography
- MSCI 501C Fundamentals—Geological Oceanography
- MSCI 501D Fundamentals—Biological Oceanography
- MSCI 524 Principles of Chemical Oceanography
- MSCI 526 ???
- MSCI 528 Introduction to Fisheries Science
- MSCI 563 Environmental Chemistry
- MSCI 572 Benthic Processes
- MSCI 575 Aquatic Microbial Ecology
- MSCI 627 Marine Organic Geochemistry
- MSCI 649 Modeling Biological and Ecological Systems
- MSCI 653 Marine Benthos
- MSCI 656 Seagrass Ecosystems
- MSCI 658 Larval Ecology
- MSCI 668 Malacology.
- MSCI 671 Fisheries Population Dynamics
- MSCI 698 Global Coastal Change
- MSCI 698 Ecology of Infectious Diseases
- MSCI 698 Biodiversity and Well-Being