ENVIRONMENTAL SCIENCES AND POLICY
Master List of Approved Courses

Students may suggest alternative courses as they become available by e-mailing suggestions to undergrad@nicholas.duke.edu.

SOCIAL SCIENCE AND HUMANITIES COURSES

African and African American Studies (AAAS)
210: History and Modern Africa
271 (115F): Humanitarianism in Africa
352 (169): Pigging Out: The Cultural Politics of Food

Arts of the Moving Image (AMI)
643S: Environmental Issues & the Documentary Arts

Cultural Anthropology (CULANTH)
236S: Farmworkers in North Carolina: Roots of Poverty, Roots of Change
238S (168AS): Politics of Food: Land, Labor, Health and Economics
239S (168S): Who Cares and Why: Social Activism and its Motivations
254: Culture and Politics of the America Borderlands
258S: Our Culinary Cultures
290 (180): Food Studies: Interdisciplinary Approaches to Why, What, and How We Eat
395AS (163BS): Environment, Health and Development in China
419S (191ES): Global Environmentalism and the Politics of Nature

Documentary Studies (DOCST)
248S (172S): Environmental Conservation and Documentary Photography
269: Documentary Photography and Film of the Nuclear Age
290 (190.05): Food Studies: Interdisciplinary Approaches to Why, What, and How We Eat
332S: Farmworkers in North Carolina: Roots of Poverty, Roots of Change
335S (164S): Who Cares and Why: Social Activism and its Motivations
341S (167S): Politics of Food: Land, Labor, Health and Economics
344S: Our Culinary Cultures
353A: Views of Environmental Change: Documentary Research in Natural Resource Management (Beaufort)
615S: Environmental Issues & the Documentary Arts

Economics (ECON)
325S: Economic Analysis of Current Energy Issues
328: Regulation and Deregulation in Public Utilities
334 (156): Health Economics
431(S): Research Methods: Energy Markets
439 (163): Economics of the Environment
446: Economics of Global Health
490 (196): Selected Topics: (various sections)
521 (261): Evaluation of Public Expenditures
530 (L) (270): Resource and Environmental Economics
568S (268S): Current Issues in International and Development Economics

English (ENGLISH)
219A: Science and Nature Writing (Beaufort)

Environment (ENVIRON)
Any ENVIRON course open to qualified undergraduates may be used to satisfy relevant focus study areas providing the course is not used to fulfill other major requirements.

Ethics (ETHICS)
265 (115): Applied and Environmental Ethics

German (GERMAN)
320A: Environmental Policy in Europe (Berlin)
364: Green Germany: World Leader in Environmental Policy

Global Health (GLHLTH)
210 (151): Global Health Ethics: Interdisciplinary Perspectives

Last Updated 7/8/14
225S: Food, Farming and Feminism  
362 (161): Introduction to Epidemiology Focus on Global Health  
383A (171): Tropical Medicine and Public Health in Costa Rica (OTS)  
383AS: Environmental Health and Development in China  
531: Applying Economic Analysis for Environmental and Public Health Project Evaluation  
533S: Water Cooperation and Conflict  
534: Water Quality Health  
538 (238): Global Environmental Health: Economics and Policy  
637S: Population and Environmental Dynamics Influencing Health  
670S: Global Nutrition: Over and under nutrition in Developing Countries

**History (HISTORY)**

204: Modern Africa  
207 (115F): Africa and Humanitarians  
250: Green Germany: World Leader in Environmental Policy  
340: North American Environmental History  
345(D): North American Environmental History  
365D: The Modern Regulatory State  
369 (189B): History of Public Health in America  
371 (190B): Feast and Famine: Food in Global History

**International Comparative Studies (ICS)**

206 (111A): Pigging Out: The Cultural Politics of Food  
269: Documentary Photography and Film of the Nuclear Age  
342S: Politics of Food  
344S: Our Culinary Cultures  
512 (201BS): Current Issues in International and Development Economics  
521S (201CS): International Environmental Regimes

**Philosophy (PHIL)**

215 (115): Applied and Environmental Ethics  
314 (114): Philosophy of Biology  
282: Science, Ethics & Society

**Political Science (POLSCI)**

235S: Comparative Urban Politics and Policy Making  
295A: Environmental Policy in Europe (Berlin)  
321 (167): International Law and International Institutions  
340D: The Modern Regulatory State  
344: Environmental Politics in the US  
345 (155): Political Economy of Development  
348D (158): Non-State Actors in World Politics  
358 (149): Globalization and Public Policy  
367S (152S): Environment and Conflict  
545S (271S): International Environmental Regimes  
549S (205S): Collective Action, Property Rights, and the Environment  
663S: Energy and U.S. National Security

**Public Policy Studies (PUBPOL)**

201A: Environmental Policy in Europe (Berlin)  
209 (181): Non-State Actors in World Politics  
211: Engineering Sustainable Design and the Global Community  
212 (185): Globalization and Public Policy  
219D: The Modern Regulatory State  
246A: Marine Conservation and Policy (Beaufort)  
275 (149): United States Environmental Policy  
268S (106S): Animals and Ethics: Welfare, Rights, Utilitarianism, and Beyond  
271S: Social Entrepreneurship in Action  
272D: Historical Perspectives on Public Policy  
275S: US Environmental Policy  
276 (107): Global Disasters: Science and Policy  
277: Global Disasters  
278: North American Environmental History

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>279S</td>
<td>Environment and Conflict: The Role of the Environment in Conflict and Peacebuilding</td>
</tr>
<tr>
<td>280S</td>
<td>Marine Science and Conservation Leadership</td>
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<td>281</td>
<td>Environmental Politics in the US</td>
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<tr>
<td>281A</td>
<td>Marine Policy (Beaufort)</td>
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<tr>
<td>287</td>
<td>Religion and Science</td>
</tr>
<tr>
<td>330 (155)</td>
<td>Global Health Ethics: Interdisciplinary Perspectives</td>
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<tr>
<td>331 (156)</td>
<td>Health Economics</td>
</tr>
<tr>
<td>380 (112S)</td>
<td>Politics of Food: Land, Labor, Health and Economics</td>
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<tr>
<td>445A</td>
<td>Climate Change in Marine Environments (Beaufort)</td>
</tr>
<tr>
<td>574</td>
<td>Economic Evaluation of Sustainable Development</td>
</tr>
<tr>
<td>575L</td>
<td>Resource and Environmental Economics</td>
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<td>576 (272)</td>
<td>Resource and Environmental Economics</td>
</tr>
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<td>577 (274)</td>
<td>Environmental Politics</td>
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<td>578 (285)</td>
<td>Land Use Principles and Policy</td>
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<tr>
<td>579S</td>
<td>Collective Action, Environment, and Development</td>
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<td>580S</td>
<td>Water Cooperation and Conflict</td>
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<tr>
<td>581S (258S)</td>
<td>International Environmental Regimes</td>
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<tr>
<td>582 (237)</td>
<td>Global Environmental Health: Economics and Policy</td>
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<tr>
<td>583S</td>
<td>Energy and U.S. National Security</td>
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<tr>
<td>596 (261)</td>
<td>Evaluation of Public Expenditures</td>
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<tr>
<td>598 (286)</td>
<td>Economic Growth and Development Policy</td>
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<tr>
<td>601S</td>
<td>Urban Policy</td>
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<tr>
<td>607</td>
<td>Applying Economic Analysis for Environmental and Public Health Project Evaluation</td>
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**Religion (RELIGION)**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>282AS (161WS)</td>
<td>Science, Ethics, and Society (Oxford)</td>
</tr>
<tr>
<td>290 (185S)</td>
<td>Special Topics (certain sections only)</td>
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**Sociology (SOCIOL)**

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>215 (115)</td>
<td>Environment as Community</td>
</tr>
<tr>
<td>226 (126)</td>
<td>The Challenges of Development</td>
</tr>
<tr>
<td>345 (145)</td>
<td>Nations, Regions, and the Global Economy</td>
</tr>
<tr>
<td>356</td>
<td>Global Contexts of Science and Technology</td>
</tr>
<tr>
<td>372 (172)</td>
<td>Food and Energy: Applying research and theory to local dining practices</td>
</tr>
<tr>
<td>374 (179)</td>
<td>Piggling Out: The Cultural Politics of Food</td>
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**Visual and Media Studies (VMS)**

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<tbody>
<tr>
<td>269</td>
<td>Documentary Photography and Film of the Nuclear Age</td>
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**Women's Studies (WOMENST)**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>270(S) (101S)</td>
<td>Animals and Ethics: Welfare, Rights, Utilitarianism, and Beyond</td>
</tr>
<tr>
<td>275S (102S)</td>
<td>Food, Farming and Feminism</td>
</tr>
<tr>
<td>290 (150)</td>
<td>Food Studies: Interdisciplinary Approaches to Why, What, and How We Eat</td>
</tr>
<tr>
<td>366S (166S)</td>
<td>Nature, Culture and Gender</td>
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**SCIENCE AND ENGINEERING COURSES**

**Biology (BIOLOGY)**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>205</td>
<td>Marine Megafauna</td>
</tr>
<tr>
<td>206L</td>
<td>Organismal Diversity</td>
</tr>
<tr>
<td>209 (112D)</td>
<td>Ecology for a Crowded Planet</td>
</tr>
<tr>
<td>228</td>
<td>Food and Fuel for Growing Population</td>
</tr>
<tr>
<td>250 (122)</td>
<td>Population Genetics</td>
</tr>
<tr>
<td>251L (124L)</td>
<td>Molecular Evolution</td>
</tr>
<tr>
<td>255 (174)</td>
<td>Philosophy of Biology</td>
</tr>
<tr>
<td>261S</td>
<td>Ecosystem Ecology for a Crowded Planet</td>
</tr>
<tr>
<td>262</td>
<td>People, Plants, and Pollution: introduction to Urban Environments</td>
</tr>
<tr>
<td>263</td>
<td>Biological Responses to Climate Change</td>
</tr>
<tr>
<td>267 (166)</td>
<td>Behavioral Ecology and Evolution of Animal Behavior</td>
</tr>
<tr>
<td>270A (109)</td>
<td>Conservation Biology and Policy (Beaufort)</td>
</tr>
<tr>
<td>272A (123)</td>
<td>Analysis of Ocean Ecosystems (Beaufort)</td>
</tr>
<tr>
<td>273LA (129L)</td>
<td>Marine Ecology (Beaufort)</td>
</tr>
<tr>
<td>278LA (150L)</td>
<td>Physiology of Marine Animals (Beaufort)</td>
</tr>
<tr>
<td>280LA (134L)</td>
<td>Fundamentals of Tropical Biology (Costa Rica)</td>
</tr>
<tr>
<td>281LA (135L)</td>
<td>Research Methods in Tropical Biology (Costa Rica)</td>
</tr>
</tbody>
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284A (137): South African Ecosystems and Diversity (South Africa)
285LA (138L): Field Research in Savanna Ecology (South Africa)
288A (131): Biogeography in an Australian Context (Australia)
290S (195S): Topics in Biology (select sections)
340L (140L): Plant Diversity
341L (141L): Plant Communities of North Carolina
344S: Plant Diversity: A Field Approach
345 (145): Dinosaurs with Feathers and Whales with Legs: Major Evolutionary Transitions in the Fossil Record
361LS (181LS): Terrestrial Field Ecology
362LS (182LS): Aquatic Field Ecology
365 (146): From Influenza A to Varicella Zoster: The Physiology, Ecology, and Evolution of Infectious Disease
372LA (155L): Biochemistry of Marine Animals (Beaufort)
373LA (156L): Sensory Physiology and Behavior of Marine Animals (Beaufort)
374LA: Marine Molecular Ecology (Beaufort)
375LA: Biology and Conservation of Sea Turtles (Beaufort)
375A: Biology and Conservation of Sea Turtles (Beaufort)
376(L)A: Marine Mammals (Beaufort)
377LA (176L): Marine Invertebrate Zoology (Beaufort)
378LA (178L): Marine Ichthyology (Beaufort)
379A (188L): Research Methods in Marine Science (Beaufort)
445A: Climate Change in Marine Environments (Beaufort)
452S: Ecology and Evolutionary Biology Colloquium
490S (295S): Topics in Biology (various sections)
546S (223S): Biology of Mammals
547L (222L): Entomology
548L: Herpetology
557L (211L): Microbial Ecology and Evolution
559S: Foundations of Behavioral Ecology
560 (217): Ecology and Global Change
561 (215): Tropical Ecology
563S: Stormwater Science
564 (272): Biogeochemistry
565L (267L): Biodiversity Science and Application
570LA-1 (207AL): Experimental Tropical Marine Ecology (Beaufort)
570LA-2 (207BL): Marine Ecology of the Pacific Coast of California (Beaufort)
570LA-3 (207EL): Harmony in Brittany: French Use of Marine Environments (Beaufort)
571A (216): Sojourn in Singapore: Urban Tropical Ecology (Beaufort)
665L (268L): Bayesian Inference for Environmental Data
668: Population Ecology
669: Simulating Ecological and Evolutionary Systems
678: Population Ecology for a changing planet

Civil and Environmental Engineering (CEE)
302L (139L): Introduction to Soil Mechanics
315: Engineering Sustainable Design and the Global Community
316 (116): Transportation Engineering
461L (120L): Chemical Principles in Environmental Engineering
462L (124L): Biological Principles in Environmental Engineering
463L (123L): Water Resources Engineering
469 (193): Integrated Environmental Design
560 (208): Environmental Transport Phenomena
561L: Environmental Aquatic Chemistry
562 (270): Environmental and Engineering Geophysics
563 (240): Chemical Fate of Organic Compounds
564 (241): Physical Chemical Processes in Environmental Engineering
571 (249): Control of Hazardous and Toxic Waste
575 (247): Air Pollution Control Engineering
581 (245): Pollutant Transport Systems
641 (237): Advanced Soil Mechanics
642: Environmental Geomechanics
643 (270): Environmental and Engineering Geophysics
644 (271): Inverse Problems in Geosciences and Engineering
665: Introduction to Atmospheric Chemistry
672 (248): Solid Waste Engineering

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<tbody>
<tr>
<td>681 (262)</td>
<td>Analytical Models of Subsurface Hydrology</td>
</tr>
<tr>
<td>682 (225)</td>
<td>Dynamic Engineering Hydrology</td>
</tr>
<tr>
<td>683 (227)</td>
<td>Groundwater Hydrology and Contaminant Transport</td>
</tr>
<tr>
<td>684 (224)</td>
<td>Physical Hydrology and Hydrometeorology</td>
</tr>
<tr>
<td>690 (265)</td>
<td>Advanced Topics in Civil and Environmental Engineering (various sections)</td>
</tr>
</tbody>
</table>

**Chemistry (CHEM)**
- 201DL (151L): Organic Chemistry
- 202DL (152L): Organic Chemistry
- 302 (176): Biophysical Chemistry
- 310 (165): Physical Chemistry
- 311 (166): Physical Chemistry (also 163L, 168L)
- 401 (131): Analytical Chemistry
- 410 (117): Inorganic Chemistry

**Computer Science (COMPSCI)**
Specific courses with approval of the Director of Undergraduate Studies

**Earth and Ocean Sciences (EOS)**
Any EOS course open to qualified undergraduates may be used to satisfy relevant focus study areas providing the course is not used to fulfill other major requirements.

**Engineering (EGR)**
- 260 (60): Global Disasters: Science and Policy
- 261: Global Disasters

**Energy (ENERGY)**
Any ENERGY course open to qualified undergraduates may be used to satisfy relevant focus study areas providing the course is not used to fulfill other major requirements.

**Environment (ENVIRON)**
Any ENVIRON course open to qualified undergraduates may be used to satisfy relevant focus study areas providing the course is not used to fulfill other major requirements.

**Evolutionary Anthropology (EVANTH)**
- 220 (132): Human Evolution
- 246S (146S): Sociobiology
- 253 (143): Primate Ecology
- 257: Ecology and Adaption of Hunters and Gatherers
- 285D: Human Health in Evolutionary Perspective
- 344L (144L): Primate Field Biology
- 355: Food for Thought: The Biology of Nutrition
- 359S: Primate Conservation
- 385D: Primate Disease Ecology and Global Health
- 390S (180S): Current Issues in Evolutionary Anthropology (certain sections only)
- 390A (180S): Current Issues in Evolutionary Anthropology (certain sections only)
- 359S (184S): Primate Conservation
- 590S (280S): Selected Topics (certain sections only)

**Information Science and Information Studies (ISIS)**
230: Meteorites and the Solar System

**Mechanical Engineering (ME)**
- 461 (121): Energy Engineering and the Environment
- 462: Power Generation

**Mathematics (MATH)**
Specific courses with approval of the Director of Undergraduate Studies

**Physics (PHYSICS)**
Specific courses with approval of the Director of Undergraduate Studies

**Statistics (STA)**
Specific courses with approval of the Director of Undergraduate Studies

Last Updated 7/8/14
School of Medicine/Graduate School
Specific courses in Biochemistry (BIOCHEM), Cell Biology (CELLBIO), Microbiology (MICROBIO), Neurobiology (NEUROBIO), Pathology (PATHOL), and Pharmacology (PHARM), with the approval of the Director of Undergraduate Studies.