APPROVED ELECTIVES FOR THE ENERGY & SUSTAINABILITY MINOR  
(March 2016)  
These are approved electives for the minor. NOTE: Courses labeled “Selected Topic” will count toward the minor when the topic studied is relevant to the minor. These courses often will have a 4397 or 3397 number. You can petition for other courses to count as electives. A note summarizing course content and a course outline should accompany the petition.

ARAB 3340 Modernity and Rationalism in Islamic Tradition  
ARAB 3397 Oil, Culture, and the Middle East (Special Topics)  

ARCH 3367 Sustainable Architecture (prerequisite: junior standing)  
ARCH 3368 Sustainable Development (prerequisite: junior standing)  
ARCH 3397 Sustainability Workshop (Bachman)  
ARCH 3397 Sustainable Affordable Housing (Adams)  
ARCH 3397 Green Building  
ARCH 3397 Landscape / Ecology / Urbanization  
ARCH 4374 Urban Environments  

BIOL 3359 Environmental Biology of Texas (Prerequisite: BIOL 1361 & 1362)  
BIOL 4368 Ecology (Pennings)  

CHEE 2332 Chemical Engineering Thermodynamics I  
CHEE 4361 Chemical Engineering Practices  
CHEE 5368/5369 Process Economics (II)  
CHEE 5390 Energy and the Environment  

CHNS (Chinese Studies) 3360 A Look at Modern China  
CHNS 3325 Chinese Culture and Society  

CIVE 3331 Environmental Engineering  
CIVE 4333 Waste and Water Treatment  
CIVE 4337 Transportation Engineering  

ECE 4363 Electromechanical Energy Conversion  
ECE 5397 Special Topic: Renewable Energy Technology  

ECON 3385 Economics of Energy (Prereq. ECON 2304 or 3332/ consent of instructor)  

ELET 4394 Principle and Application of Fuel Cells  

ENG 2334 Introduction to Thermodynamics  
ENGL 3396 Selected Topics: Writing Eco-City: Focus Houston  

ENRG 3310 Introduction to Energy & Sustainability  
ENRG 4320 Case Studies in Energy & Sustainability (Capstone)
ENRG 4397 Selected Topic: Political Risk Assessment (Hallmark-cross-listed as POLS 4341)
ENRG 4397 Selected Topics: (Radha: Overview of Energy-crosslisted as SCM 4302 Energy Supply Chain Management)
ENRG 4398 Independent Study in Energy & Sustainability (arrange with prof.)
ENRG 4398 Independent Study in Energy & Sustainability (Hamilton: Sustainable Cities)

FINA 4370 Energy Trading Systems
FINA 4371 Energy Value Chain
FINA 4372 Upstream Economics
FINA 4373 Petrochemical & Refining Economics

GEOL 1302 Introduction to Global Climate Change (Talbot)
GEOL 1102 Introduction to Climate Change (add lab)
GEOL 3331 Environmental Geology (Dupre)
GEOL 3333 Earth Resources
GEOL 3342 Introduction to Air Pollution (Erickson)
GEOL 3378 Principles of Atmospheric Science
GEOL 4330 Biogeochemistry (Hall)

HIST 3327 Houston Since 1836
HIST 3378 The Modern Middle East (Al-Sowayel)
HIST 3381 Africa and the Oil Industry
HIST 3394 Energy in Modern America (Selected Topic)
HIST 3395 Ideology and Empire: Russia (Rainbow)
HIST 3396 Power Hungry: Energy in Crisis in Modern Latin America
HIST 4322 Environment in U. S. History
HIST 4386 Africa: 1945 to the Present

HON 3397/98 Sustainable Cities (Selected Topics/Independent Study)

INDE 3333 Engineering Economy (Cao/Sitton)

INTB 3354 Introduction to Global Business (Hybrid) (Aleman / Barnett)
INTB 3355 Global Environment of Business (Hybrid) (Olivia Mijanic)
INTB 4397 Capstone Seminar in Globalization (cross-listed as HON 4360 / POLS 4396)

PETR 1100 Introduction to Petroleum Engineering (1 hour)

POLS 3326 Government: Politics in the Middle East (Prereq. POLS 1336, 1337)
POLS 4341 Political Risk Assessment (cross listed as ENRG 4397 above)
POLS 4349 International Energy Politics
POLS 4363 Science, Technology, and Public Policy
POLS 4396 Capstone Seminar in Globalization (cross-listed as INTB 4390)
TECH 1325 Energy for Society (Bose)
TECH 4310 Future of Energy and Environment (Breaux)

SCM 4302 Energy Supply Chain Management /cross-listed as ENRG 3397)

WCL 3377 The Modern Middle East: Literature, Politics, and Ideas