Revision Date: Apr 27, 2010 Modified December 12. 2016

GEOLOGY TRACK

Degrees: Only a BS degree is available in the Geology Track
Perspective: This track offers classical training in the Earth Sciences with emphasis on Geology.
Intended Audience: This track is intended for those pursuing graduate-level training or technical careers in the Geoscience.
Recommended General Education Courses for this Track:- Students must complete <u>4 Tier 1</u> and <u>6 Tier 2</u> with at least 2 in each mode of inquiry—The Gen Ed Modes are- Creative Process & Production (CPP); Lang., Lit., and Cultural Studies (LLCS); Scientific and Quantitative Inquiry (SQI); Social and Historical Perspectives (SHP)
Tier 1 ART 145 Websites for Everyone (3) (Tier 1) (CPP) EESC 121 Mapping the City (3) (Tier 1) (SQI) ECON 115 Money and Markets (3) (Tier 1) (SHP) ENGL 130 Reading the Environment (3) (Tier 1) (LLCS & SHP) PHIL 113 Environmental Ethics (3) (Tier 1) (LLCS) POLI 120 Global Challenges (3) (Tier 1) (SHP)
Tier 2 ART 286 Infographics for the Sciences (3) (Tier 2) (CPP) BIOL 240 Scientific Communication (3) (Tier 2) (LLCS &SQI) EESC 220 Geographies of Immigration (3) (Tier 2) (SHP) EESC 226 Earth 360: Integrated Geography (3) (Tier 2) (SQI) EESC 231 Water Chronicles (3) Tier 2 (LLCS & SHP) EESC 235 Global Climate Change (3) Tier 2 (LLCS & SHP) PHIL 246 Food, Philosophy and Global Health (3) (Tier 2) (LLCS & SHP) PHIL 245 Social Justice (3) (Tier 2) (SHP) POLI 217 Globalization and Governance (3) (Tier2) (SHP) SOCI 230 Cities of Industry (3) (Tier 2) (SHP) SOCI 237 Refugees and Forced Migrations (3) (Tier 2) (SHP)
<u>Tier 3</u> EESC 3XX Energy, Society and Sustainability (3) (Tier 3) (<i>Pending</i> approval)
TRACK REQUIREMENTS

Mathematics (7-8 credits)
____ MATH 192 Calculus I (4)

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MATH 193 Calc II (4) OR MATH 140 Statistics (3)
Related Natural Sciences (18 credits)
CHEM 105/1105 General Chemistry & Lab I (5) &
CHEM 106/1106 General Chemistry & Lab II (5)
PHYS 130/1130 General Physics and Lab I (4) &
PHYS 131/1131 General Physics & Lab II (4)
FHT3 131/1131 General Fllysics & Lab II (4)
Geology Core Curriculum (26 Credits):
EESC 112 Introduction to Geology (3)
EESC 221 Essential Methods in Geology (3)
EESC 241 Historical Geology (4)
EESC 246 Earth Materials (4)
EESC 317 Structural Geology (4)
EESC 334 Sedimentology and Stratigraphy (4)
EESC 336 Field Methods (4)
Geology Electives (12 credits): Choose any 300+ level EESC course , with the following recommended. Only 1 GIS course will count toward elective credit, if the student is in the GIS Certificate Program.
EESC 340 Hydrology (3)
EESC 348 Environmental Geology (3)
EESC 349 Introduction to Hazmat Field Techniques (4)
EESC 350 Analysis with GIS (3) EESC 410 Urban Soil Survey (4)
EESC 434 Earth Surface Processes (4)
EESC 446 Introduction to Geochemistry (3)
EESC 447 Introduction Geophysics (4)
EESC 455 Modeling with GIS (3)
^T EESC211 Geology of the Bahamas (3)
TEESC 503 Field Studies in Geoscience (3)
EESC 540 Geology of NJ (3)
EESC 550 Geology of National Parks (4)
T students may choose one course from this group
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