

UNU-CCNY Program Requirements in ESEE

Mandatory courses are underlined

Core Courses Pick 3 courses (9 credits)	<u>EE G6904 - Advanced Statistics and Non-Linear Analysis</u> <u>ENGR G6601 - Environmental Modeling for Earth Systems Sciences and Engineering</u>	SUS 7200C - Sustainable Aquatic, Terrestrial, and Atmospheric Systems OR EAS B4800 - Sustainability of Terrestrial, Aquatic and Atmospheric Systems
Non-STEM Courses Pick 1 course (3 credits)	PSM B1600 Strategic Management of Public Organizations PSM B1700 Public Policy IAS 61230 International Institutions SUS 7600C Environmental Policymaking IR B6300 International Law	IR B6928 Human Rights: World Policy IR B6700 Communicating about the World IR B6922 Critical Global Issues IR B6200 International Organization IR B6933 Foreign Policy & Decision Making IR B6925 Peacemaking and Negotiation
Distribution Courses Pick 2 courses (6 credits)	<u>ENGR I9500 Professional Seminar on the UN</u> CE G7100 - Water Wastewater Treatment CE G8100 - Macro-Scale Hydrology EE G6800 - Optic Remote Sensing EE G6903 - Remote Sensing EAS B8800 - Climate and Climate Change CE G0800 - Geographical Information System Civil Engineering	CE G0801 - GIS Water Resources EAS B4400 - Global Environmental Hazards SUS 7600B - Design of Mechanical Systems for Sustainable Buildings EAS B3300 - Phase I Environmental Site Assessments EAS B3400 - Phase II Environmental Site Assessments EAS B9036 - Statistics in Earth and Environment
Concentration Courses Pick 1 of the UNU courses and 2 other courses (9 credits)	UNU: ENGR G7000: Remote Sensing for Sustainable Development Goals ENGR G6700: GIS/Data Science for Sustainable Development Goals Climate and Remote Sensing: EE G6800 - Optic Remote Sensing EE G6902 - Remote Sensing Surveillance EE G6903 - Remote Sensing EE I0100 - Probability and Stochastic Processes CSC I0807 - Image Processing EE I2200 - Image Processing EAS B8800 - Climate and Climate Change EAS B3090 - Fund Atmos. Science Energy and Environment: SUS 7300A - Low Energy Building SUS 7900B - Sust Engr Conv Syst SUS 7600B - Design of Mech Systems for Sustainable Buildings ME G2300 - Htng-Vent-Air Cond SUS 7200B - Energy Systems Eng. for Global Sustainability	Water Resource Engineering Management: CE G7100 - Water Wastewater Trt CE H6100 - Water & Env. Resources Syst. Analysis CE H6200 - Numerical Methods & Simulations In Fluid Flows CE G8100 - Macro-Scale Hydrology CE H0700 - Advanced Hydraulics CE H0800 - Applied Hydraulics in Engineering CE H6600 - Engineering Hydrology CHEM A1100 - Environmental Chemistry CHEM A1200 - Environmental Organic Chemistry CE H7700 - Bio Sys Envir Engr EAS A1300 - Environmental Geochemistry EAS A2300 - Subsurface Remediation EAS B4500 - Hydrology EAS B4600 - Ground-Water Hydrology Geoinformatics and GIS: CE G0800 - Geogrph Info Systems CE CE G0801 - GIS Water Resources EE G6902 - Remote Snsng-Surv EAS B4400 - Global Environmental Hazards EAS A4170 - Satellite Meterology CSC I0802 - Web/Geogrph Info Sys
Research Project (3 credits)	<u>ENGR I9900 - UNU Aligned Final Research Project in ESEE.</u> The research project should be co-designed and co-supervised by UN/UNU affiliated scientists.	