

Students seeking **The UNU Hub on R-SIRUS Undergraduate Certificate of Distinction in Sustainability Stewardship for ESE** will complete the following three required policy, seminar, and capstone project components.

### 1. Policy Component

Take one of the below-listed policy-related course options.

- PSC 12500: Introduction to Public Policy (3 credits)
- SOC 27400: Urban Politics and Policy (3 credits)
- 10-hours of online coursework (offered through UN system e-learning platforms). Students can select relevant courses from e.g., UN CC: e-Learn, UNU-INWEH Learning Centre, FAO eLearning Academy, UNEP eLearning and UNDRR eLearning. Each chosen course must provide a certificate of completion as proof of participation.

### 2. Seminar Component

Attend at least 3 of the 10 seminars from the UN Seminar Series (ENGR 19500 Professional Seminar), organized by the UNU Hub R-SIRUS as a mandatory course for the Joint UNU Master's students. The Seminar Series features representatives from different UN agencies and entities.

### 3. Capstone Project Component

Develop the Capstone Project for Environmental Engineering Senior Design I & II (6 Credits) with specific objectives that address one of the UN Sustainable Development Goals (SDGs) in an urban context.

Students may develop a project that is relevant to the one of the following UN SDGs:



- **SDG 6: Clean Water and Sanitation**
  - SDG 6 focuses on Clean Water and Sanitation and aims to ensure access to safe and affordable drinking water, sanitation, and hygiene for all by 2030.
  - It addresses improving water quality, increasing water-use efficiency, and protecting water-related ecosystems.
  - **Projects that address these issues for urban New York can be developed.**



- **SDG 7: Affordable and Clean Energy**
  - SDG 7 focuses on ensuring access to affordable, reliable, sustainable, and modern energy for all.
  - It revolves around providing universal access to energy services, increasing the share of renewable energy in the global energy mix, and doubling the global rate of improvement in energy efficiency.
  - **Projects that address solar energy, microgrids, energy efficiency etc. for New York City can be developed.**



- **SDG 11: Sustainable Cities and Communities**
  - SDG 11 focuses on making cities and human settlements inclusive, safe, resilient, and sustainable.
  - It also aims to reduce the adverse environmental impact of cities, particularly in relation to air quality and waste management.
  - **Projects related to flood-resilient neighborhood design, improving air quality, and resource recovery can be developed.**



- **SDG 13: Climate Action**
  - SDG 13 focuses on taking urgent action to combat climate change and its impacts.
  - This includes strengthening resilience and adaptive capacity to climate-related hazards, integrating climate change measures into policies, and improving education and awareness.
  - **Projects related to climate-resilient designs can be developed.**

The capstone project must be approved by the pillar leads of the UNU education pillar.