

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**

- SSDG 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.