



# Master of Science in Sustainable Energy

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A two-year graduate program with a focus on topics related to sustainable energy and the impact urbanization, transportation and manufacturing have on energy sustainability.



CSE's Sustainable Energy master's provide students with extensive knowledge in topics related to sustainable energy and the impact of growth, urbanization, transportation and manufacturing on energy and overall sustainable development. The programs also look at the implications and drivers of sustainable policymaking on society, the economy, and the environment.

A key component for both degrees is original, guided research in energy science, technologies and policies that support sustainable development.

The multidisciplinary approach to the curricula allows for engagement in cross-disciplinary science and builds fundamental knowledge that evolves with developments in the energy field, equipping graduates with the tools needed to pursue a wide variety of career paths.

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## Program Focus

- Skills to build a successful career in science, engineering, technology and developmental studies including ethics, technical writing, research methods, data analytics, and advanced computing methods.
- Fundamentals of energy engineering, sciences and technologies for sustainability.
- Fossil fuel energy use and environmental impact.
- Engineering and scientific development of renewable green energy.
- Energy storage, distribution and consumption efficiency.
- Social and economic aspects of sustainability including, but not limited to, demand side management,

efficiency, human capital, financing, and policymaking.

## **Curriculum**

**A 33-credit full-time program, taught in English over two years that includes:**

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- **Three core courses**
  - **Five elective courses (six if taking industrial/ applied thesis/project)**
  - **A nine-credit research thesis or six-credit**
  - **Two graduate research seminars**
  - The master's program can be customized to focus on different aspects of sustainable energy such as renewable energy systems, conventional energy systems, energy and mobility, energy and urbanization, and energy and the environment.
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