



Department of Mechanical and Aerospace Engineering

Lead the Way in Sustainable Energy Engineering

Become an Energy Expert with an Online Master of Science in Renewable and Clean Energy

Most Renewable and Clean Energy (RCL) courses are offered online as well as in class. Thus, you can prepare yourself to be part of the sustainable energy future while working from home. The following list shows when online courses are offered. Successful completion of nine RCL and one ENM (math) courses satisfies all requirements for a Master of Science degree in Renewable and Clean Energy from the University of Dayton. Students have the option of taking all ten courses online, or taking some courses online and some courses at the University of Dayton, including other RCL courses that are not offered online.

Fall

RCL 573 – Renewable Energy Systems
RCL 556 – Energy Systems Engineering
RCL 578 – Energy Efficient Manufacturing
RCL 561 – Solar Energy Engineering

Summer

RCL 563 – Wind Energy Engineering
RCL 564 – Sustainable Energy Systems
ENM 500 – Probability and Statistics

Spring

RCL 557 – Building Energy Informatics
RCL 569 – Energy Efficient Buildings
RCL 562 – Geothermal Energy
ENM 561 - Design and Analysis of Experiments
ENM 500 – Probability and Statistics

How Do Online RCL Courses Work?

Online RCL courses are typically taught with both online and in-class sections. In-class lectures are recorded and placed on the course website along with course materials and homework sets. Online students work at the same pace as in-class students and submit homework and projects at the published due dates throughout the semester. However, online students can watch the lectures and access the course website whenever it is convenient. Most online classes have “chat rooms” for students to work together online. In addition, online students can email questions to the teaching assistant and course instructor. For exams, RCL online courses employ an online proctoring system that ensures consistent test taking conditions while students take the exams in the privacy of their own homes.

Who Should Apply?

The University of Dayton online Master of Science in Renewable and Clean Energy is ideal for professionals who want to develop engineering expertise in energy efficiency, solar, wind and geothermal energy. Applicants must meet the following admissions requirements:

- Undergraduate degree from an accredited program in engineering, physics, chemistry, applied mathematics or other appropriate program of study. Applicants with a different undergraduate degree may be required to complete prerequisites.
- Minimum 3.25 cumulative GPA on a 4.0 scale. In some cases, applicants with a GPA below 3.25 may be admitted on a conditional basis.
- International students should have a minimum TOEFL score of 80 or IELTS score of 6.5.
- It is recommended that online students begin in the Fall semester. Students should apply by June 15 to be considered for the Fall semester.