

# SUSTAINABLE AND RESILIENT ENERGY ENGINEERING CERTIFICATE

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The Sustainable and Resilient Energy Engineering certificate provides a comprehensive educational experience for engineering students interested in sustainable energy, advanced energy generation, storage, and grid resiliency technologies.

## About this Program

- **College:** Herbert Wertheim College of Engineering (<http://catalog.ufl.edu/UGRD/colleges-schools/UGENG/>)
- **Credits:** 9 | Three courses completed with a composite 3.0 GPA; each course completed with minimum grade of C.
- Student Learning Outcomes (SLOs) (<https://public.tableau.com/app/profile/uf.oipr4918/viz/UFStudentLearningOutcomesCertificatesOnly/StudentLearningOutcomes/?publish=yes>)

*Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.*

## Department Information

The Department of Mechanical & Aerospace Engineering (MAE) graduates many exceptional mechanical and aerospace engineers each year. The Mechanical Engineering program celebrated its 100 year anniversary in 2009 and is one of the founding departments of the Herbert Wertheim College of Engineering. Starting within mechanical as an aeronautical option, the Aeronautical Engineering program was founded in 1946. It grew to become the Aerospace Engineering program, which merged with Engineering Science and Mechanics in 1969. All these programs united (or reunited) in 2002. Going strong into the 21<sup>st</sup> century, MAE remains a vibrant and intellectually diverse program at both the undergraduate and graduate levels.

**Website** (<https://mae.ufl.edu/>)

## CONTACT

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Email ([advising@mae.ufl.edu](mailto:advising@mae.ufl.edu)) | Map (<https://campusmap.ufl.edu/#/index/0725>)

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Gainesville, FL 32611-6250

1064 Center Drive  
Building NEB, Room 181  
Gainesville, FL 32611  
Map (<https://campusmap.ufl.edu/#/index/0033>)

## Curriculum

- Aerospace Engineering
- Biomechanics Minor
- Combination Degrees
- Mechanical Engineering
- Sustainable and Resilient Energy Engineering Certificate

This certificate is open to students having a cumulative 3.0 GPA in any engineering discipline.

## Required Courses

Code	Title	Credits
Select three:		
EMA 4450	Li-ion Next Generation Batteries	9
EML 3100	Thermodynamics	
EML 4410	Combustion Engineering	
EML 4450	Energy Conversion	
EML 4461	Industrial Energy Management	
EML 4416	Solar Energy Utilization	
<b>Total Credits</b>		<b>9</b>

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