ENERGY SCIENCE & TECHNOLOGY, MINOR

College of Engineering

Energy Minor Programs

There is an urgent need to develop and commercialize technologies for the sustainable conversion and use of energy. This minor prepares students for careers that require training in energy science and technology, efficiency, and policy. Clean technologies and green technologies including energy are some of the fastest-growing markets for new investments. Well-trained individuals in all related fields are needed to provide the level of expertise required to advance technology and policy and to satisfy national and global objectives for greater energy sustainability. The minor accommodates persons of diverse backgrounds with educational interests in areas that may include engineering, science, policy, economics, planning, and management.

All courses must be taken for a letter grade. A grade of C- or better is required for all courses used to satisfy minor requirements with an overall GPA in the required minor courses of 2.000 or better. Only one course overlap is allowed between major and minor.

Minor Faculty Advisors

M. S. Ahamed (Department of Biological & Agricultural Engineering)

Minor Staff Advising

The Biological & Agricultural Engineering staff advisor is available to help students create academic plans for this minor and submit minor declarations. More information can be found on the departmental website (https://bae.ucdavis.edu/undergraduate/undergraduate-advising/).

Code	Title	Units
Required Courses:		**8**
ENG 105	Thermodynamics	
or ECH 152B	Chemical Engineering Thermodynamics	
ENG 188	Science & Technology of Sustainable Power Generation	
Elective Courses; choose 12 units:		**12**
ABT/HYD 182	Environmental Analysis Using GIS	
ARE/ESP 175	Natural Resource Economics	
ATM 116	Modern Climate Change	
EBS 161	Kinetics & Bioreactor Design	
ECH 158C	Plant Design Project	
ECH 161A	(Discontinued for winter 2024) **	
ECH 161B	(Discontinued for spring 2024) **	
ECH 161L	Bioprocess Engineering Laboratory	
ECH 166	Catalysis	
ECI 125	(Discontinued for summer 2024) **	
ECI/ESP 163	Energy & Environmental Aspects of Transportation	
EME 161	Combustion & the Environment	
FST 123	Introduction to Enzymology	
ESP 167	Energy Policy	
PLS 101	Agriculture & the Environment	
Total Units		**20**

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Course(s) discontinued; see your advisor for course options.