

# Checklist for Minor in Energy Engineering

The Energy Engineering minor requires a minimum of 18 credits of course work, consisting of a minimum of 12 credit hours of core courses and a minimum of six credit hours from the list of approved emphasis area courses. **To request the designation of the minor (which, if approved, will appear on your official MU transcript), please indicate in the space below the semester you took classes and the grade you received. Attach to this form an unofficial copy of your transcript, with the 18 credit hours of minor courses highlighted.** Submit this information to Dr. Gary Solbrekken, Minor Coordinator (see contact information below). Once your application has been reviewed and approved, it will be forwarded to the University's Transcripts and Records Office for addition to your permanent University student file and records.

\_\_\_\_\_  
Student Name (please type or print legibly)

\_\_\_\_\_  
Expected Graduation Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Student Number

*NOTE: As noted below, the Energy Engineering Minor was partially developed with funding under a grant (#GJ-19902-10-60-A-29) to the Missouri Division of Workforce Development and the University of Missouri, awarded under the High Growth and Emerging Industries Recovery Act-State Energy Sector Partnership (SESP) and Training Program, as implemented by the U.S. Department of Labor's Employment and Training Administration. By applying for this minor, you agree to the use of your student information by the University in relation to DOL grant reporting.*

## Required Core Courses (Minimum of 12 Credit Hours)

Course Title	Semester	Grade
Engr 2100: Circuit Theory (3), or ECE 2100 Circuit Theory (4)	_____	_____
Engr 2300: Engineering Thermodynamics (3), or ChE 3261: Chemical Thermodynamics I (3)	_____	_____
ECE 4470: Sustainable Electrical Energy Resources (3)	_____	_____
IMSE 2710: Engineering Economic Analysis (3)	_____	_____

## Approved Emphasis Area Courses (Minimum of Six Credit Hours)

Course Title	Semester	Grade
ECE 3470: Introduction to Power Engineering (3).	_____	_____
ECE 3510: Electromagnetic Fields (3)	_____	_____
ECE 4001: Test and Evaluation of Electrochemical Devices (3)	_____	_____
ECE 4410: Power Electronics I (4)	_____	_____
MAE 4290: Welding Engineering (3)	_____	_____
MAE 4320: Design of Thermal Systems (3)	_____	_____
MAE 4340: Heating and Air Conditioning (3)	_____	_____
MAE 4660: Vibration Analysis (3) (Same as CvE 4660)	_____	_____
ChE 4464: Electrochemical Reaction Engineering Science (3)	_____	_____
CvE 4250: Environmental Regulatory Compliance (3)	_____	_____

## Approval Signatures:

\_\_\_\_\_  
Dr. Gary L. Solbrekken  
Energy Engineering Minor Coordinator  
E2411a Lafferre Hall

\_\_\_\_\_  
Date

\_\_\_\_\_  
Associate Dean of Engineering  
W1025 Lafferre Hall

\_\_\_\_\_  
Date