

## Energy Engineering Minor Requirements Checklist

Name: \_\_\_\_\_ Primary Major: \_\_\_\_\_ Expected Graduation Term: \_\_\_\_\_

Use the checklist below to assess your progress toward the Minor in Energy Engineering. **Five unique courses and one capstone design course must be completed to earn the minor.** Up to 2 courses may be taken outside of Duke, e.g., during study abroad.

- Read course descriptions at: <http://energy.pratt.duke.edu/minor-requirements/course-descriptions>

### 1. Core Course (check one)

Semester Taken/Grade

**ENRGYEGR 310:** Introduction to Energy Generation, Delivery, Conversion and Efficiency  
**ME 461:** Energy Engineering and the Environment

### 2. Energy Engineering Area Courses (check four) *(at least 1 course in each category)*

Semester Taken/Grade

#### ■ Generation and Delivery

**ME/ENRGYEGR 490:** Special Topics - Bioenergy  
**ME/ENRGYEGR 490:** Special Topics - Renewable Energy Technologies  
**ME/ENRGYEGR 490:** Special Topics - Modern Power Systems  
**ECE 341L:** Solar Cells  
**ME 516:** Thin-Film Photovoltaics

**Other course:** (with prior approval of Program Director):

- **Other course:** (e.g., 1 yr. of Bass Connections (energy topic) w/approval of Program Director):

#### ■ Conversion and Efficiency

**ME/ENRGYEGR 490:** Special Topics - Building Energy Modeling  
**ME/ENRGYEGR 490:** Special Topics - Transportation Energy  
**ME/ENRGYEGR 490:** Special Topics - Power for Mechanical Systems  
**ECE 431:** Power Electronic Circuits for Energy Conversion

**Other course:** (with prior approval of Program Director):

- **Other course:** (e.g., 1 yr. of Bass Connections (energy topic) w/approval of Program Director):

### 3. Capstone Design (check one)

Semester Taken/Grade

**EGR 424L:** No prior approval needed; project description on following page not required.

**Departmental capstone:** May be used if the project is energy-related. Requires prior approval by Program Director before the capstone course begins; requires project description on following page.

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# Duke

**ENERGY ENGINEERING**  
PRATT SCHOOL OF ENGINEERING

## Energy Engineering Minor Capstone Project

**Name:** \_\_\_\_\_ **Primary Major:** \_\_\_\_\_ **Expected Graduation Term:** \_\_\_\_\_

**Email:** \_\_\_\_\_

All students in the Minor in Energy Engineering must complete a capstone design project. If a departmental capstone will be used to satisfy the requirement, the student must gain approval from the Program Director before the capstone course begins, and they must describe their project below.

### 1. Project Title

### 2. Overall Objectives (300-500 words)

Please describe the central questions and goals of your project.

### 3. Energy-Related Objectives (~100 words)

Your capstone project must have a substantial energy component to count toward the Minor.