

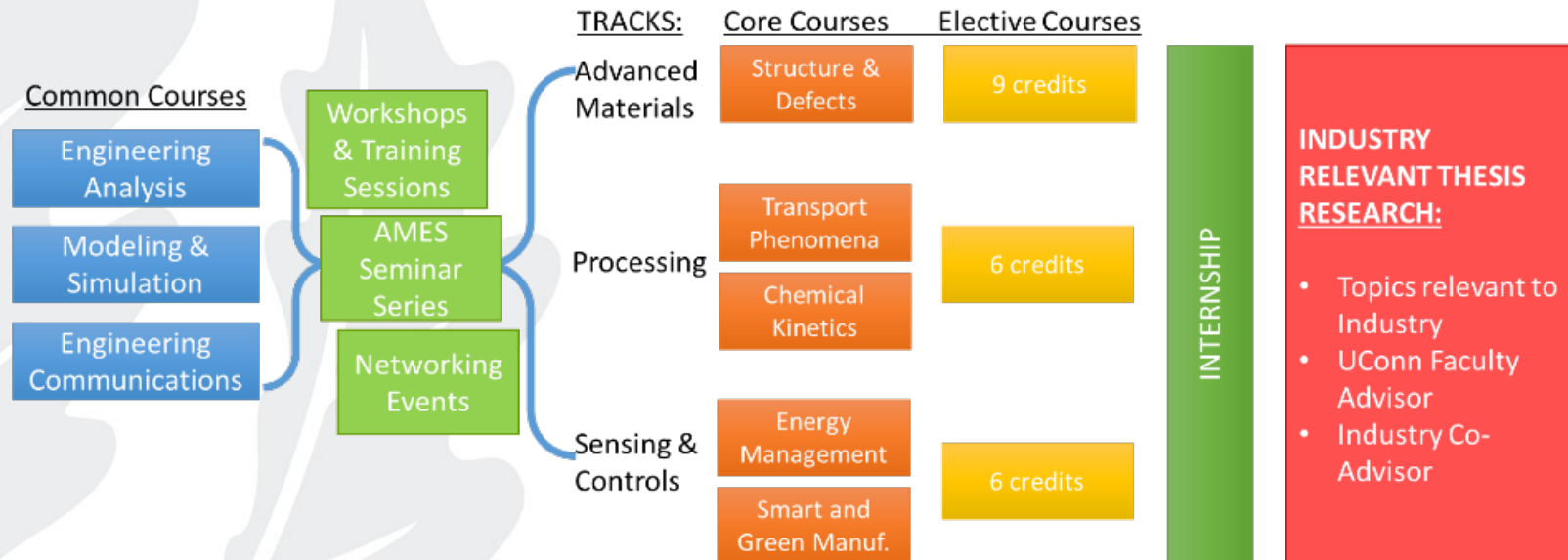
**An interdisciplinary MS level graduate program aimed to train highly trained engineers in response to long-term workforce and technology needs of the advanced energy products manufacturing industry**

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**AMES Features:**

- ❑ Housed at School of Engineering, ensuring a truly interdisciplinary approach, and rapid response to changing needs of the industry
- ❑ Built on a new curriculum that is supported by new common courses designed for cross-cutting skills, and multiple tracks that target challenges in advanced manufacturing for energy systems.
- ❑ Multiple tracks enable all engineering backgrounds to specialize in advanced manufacturing for energy systems.
- ❑ Features a Master of Engineering (MENG) extension for working professionals.

## AMES Curriculum



- ❑ Development of cross-cutting skills through common courses
- ❑ Tracks addressing all engineering backgrounds
  - Advanced materials
  - Processing
  - Sensing & Controls
- ❑ Internship
- ❑ Seminars, Workshops, Networking Events

## **Industry Relevant Research Training**

- ❑ Thesis (MS) and Capstone (MENG) Projects
  - UConn Faculty Advisor
  - Industrial Partner Co-Advisor
  - Industrially Relevant Research Topic
- ❑ Internship at an Industry Partner Facility

### **Industry Partners**

- |                           |                     |
|---------------------------|---------------------|
| • Cabot Corporation       | • AzTrong           |
| • Proton On Site          | • Quantum BioPower  |
| • Sustainable Innovations | • Doosan Fuel Cells |
| • UTRC                    | • Giner, Inc.       |
| • Applied Power Systems   | • CT GreenBank      |

## Implementation Plan

- ❑ First students of the program to start in Fall 2018
- ❑ 5-6 new students (funded by DoE) every year
  - Additional students through MENG extension
- ❑ Course development to start in Summer 2018
- ❑ UConn Engineering Diversity and Outreach office for recruitment of female and minority students
  - UConn LSAMP
- ❑ Courses (MOOC) and curriculum to be publicly shared
- ❑ Rigorous evaluation plan, continuous revision
  - ABET model for course outcomes, student achievements, data collection

