Ph.D in Materials Science and Engineering University of Cincinnati

Credit Hours
90 Minimum Credit Hours Total
- 30 Course Work Credit Hours
  - 24 From MSE Courses
  - 15 From Core Courses
  - 6 From Approved Courses
  - 60 Minimum Research Credit Hours

Dissertation Credit Hours
- 60 minimum research credit hours towards thesis

Time Frame to take PhD qualifier
With M.S. = By end of 4th semester
With B.S. = By end of 6th semester

Core Courses
Metals/Ceramics
- Advanced Thermodynamics (MTEN-7035)
- Mechanical Behavior of Materials II (MTEN-6097)
- Kinetics of Materials Processing (MTEN-6020)
- Phase Transformations in Solids (MTEN-6071)
- Diffraction Theory (MTEN-7048)
- Advanced Materials Techniques (MTEN-7010C)

Polymers
- Advanced Thermodynamics (MTEN-7035)
- Introduction to Polymer Science (MTEN-7094)
- Properties of Polymers (MTEN-6034)
- Polymer Analysis/Characterization (MTEN-7032C)
- Diffraction Theory (MTEN-7048)
- Advanced Materials Techniques (MTEN-7010C)

Research Advisor Vs. Academic Advisor
1. An Academic Advisor should be selected by the student within the first semester of graduate school to provide assistance with structuring course based credit hours. The Academic Advisor does not necessarily need to meet the student’s research interests but must belong to the MSE program.
2. A Research Advisor (Thesis Advisor) should be selected within the first semester that meets the student’s research interests. The Research Advisor will guide the student through the research based credit hours and may belong to another program with the approval of the Graduate Studies Director.
3. The Academic and Research Advisors may be different faculty. Only the Academic Advisor must belong to the MSE department.

PhD Qualifying Examination
- Notify your Research Advisor and the MSE Graduate Chair before the semester in which you are taking the qualifier.

PhD Candidacy: Students must maintain at least a 3.0 GPA in courses at UC and within the MSE Program