

MSE GRADUATE HANDBOOK OVERVIEW: BREAK-OUT ROOM SESSION

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Self-Assessment Exam Overview

Simon Phillpot, PhD

MSE Self-Assessment Exam

- In order to help you select the appropriate registration for the Fall semester, we are administering a diagnostic examination for all incoming graduate students. The examination is to help you identify your knowledge of Materials Science and Engineering. It is a graded examination but will not be recorded on your transcript. If you score less than 75% on the test, we recommend you register for EMA 6001 (graduate level) Introduction to Materials Science and Engineering before registering for EMA 6313. EMA 6001 is considered a technical elective which counts towards your degree. If you score greater than 75% we recommend you register for EMA 6313 Structure and Mechanical Properties of Materials. In either case, you should register for EMA 6316 Thermodynamics of Materials and an elective course.
- The examination will consist of 55 questions based on Introduction to Materials Science & Engineering texts, e.g., by William D. Callister. The exam is available online at any time until August 18th. You may need about 1 to 2 hours; the time limit is about 12 hours.

Graduate Handbook Review

Simon Phillpot, PhD

Graduate Handbook

<u>https://mse.ufl.edu/academics/handbooks/</u>

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Curriculum Overview

^c Graduate level coursework outside of MSE approved by graduate coordinator

^d Supervisory Chair only

e Technical paper graded by Graduate Coordinator

f From admission to Ph.D. Candidacy, passing Qualifying Exam.

Core Courses

The core courses for the MSE program are:

- EMA 6316: Materials Thermodynamics (Fall)
- EMA 6313: Materials Structure and Mechanical Properties (Fall)
- EMA 6136: Diffusion, Kinetics, and Transport (Spring)
- EMA 6114: Functional Properties of Materials (Spring)
- For MS students, a passing grade is C (C- is failing)
- For PhD students, a passing grade is B (B- is failing)
- All students must maintain an overall GPA or 3.0 or better

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Common Curriculum

- A minimum of 6 credits of MSE elective graduate level-5000/6000 courses are taken based upon a student's specific interests and committee requirements for minor studies.
- A maximum of 6 credits of 3000-4999 (undergraduate level) coursework may count towards the Graduate Degree. This coursework must be taken outside of the major and can't have a graduate level equivalent. In addition, registration must be approved by the Graduate Coordinator. As its coursework taken outside of the major, it will count towards the 9-credit maximum of non-MSE coursework.
- Graduate students in our department (EDGE students excluded) are required to register for "EMA6936: Seminar in Materials Science and Engineering" (1 credit) each semester, unless a student has registered for 9 credits of graded courses in that semester, or is an EDGE student, or in the final semester before graduation and has received a waiver from the Academic Services Office.

DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

Typical First Semester Registration (9 credits)

EMA 6316 Thermodynamics for 3 credits

and

EMA 6001 or EMA 6313 (Structure and Mechanical Properties) for 3 credits

and

Another 3-credit class

Or 2 credits of research (must have research advisor) + 1 credit of seminar (EMA 6936)

• EDGE students may register for 1 course per semester. It is recommended to finish the core courses in the first 2 years (at 1 course per semester)

Research Advisor and Supervisory Committee

• PhD

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- Comprises at least four members selected from Graduate Faculty
 - At least three members, including the chair, must be MSE Faculty or Affiliate Faculty
 - At least one member must serve as an external faculty member, with no affiliation to MSE
- Master's Thesis
 - Comprises at least three members selected from Graduate Faculty
 - The committee consists of the research advisor and two additional faculty members, all of whom need to be Graduate Faculty in MSE
- Non-Thesis Master's/EDGE
 - The Graduate Coordinator is designated as the Graduate Studies Chair. There is no committee.

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PhD Specific Requirements

- Requires 90 credits of course work.
- In addition to the four core courses, a one-credit course EMA 6920 Professional Development, and four credits of EMA 6941 Supervised Teaching are required.
- Individual Development Plan (IDP)
 - Required to be completed annually via Canvas Modules.

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PhD Specific Requirements Cont.

Time	Milestone Co	mpleted
1 st semester	Select PhD Advisor Complete EMA 6316, EMA 6001 and/or EMA 6313	
2nd semester	Complete EMA 6114 and EMA 6136	
416	Form supervisory committee	
4 ^m semester	Complete EMA 6920 and EMA 6313 (if needed)	
5 th semester	Pass graduate qualifying examination/admission to candidacy	У
Annually after qualifying exam	Annual research update with supervisory committee	
Within 6 months of defense	Sufficiency meeting with supervisory committee	
4 th – 5 th year	PhD dissertation defense	

Degree Timeline and Deadlines

The following table illustrator a typical timeline to the PhD degree

All graduate students are required to register for EMA 6936: Seminar in Material Science and Engineering (1 credit) each semester, unless a student has registered for 9 credits of graded courses in that semester, in the EDGE program, or in the final semester before graduation and has received a waiver from the Academics Services Office.

All PhD students are required to complete a yearly Individual Development Plan (IDP).

All academic and departmental guidelines can be found in the Graduate Student Handbook

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Final Semester Registration

- During the final semester, the student must be registered for at least 3 credits in fall or spring and 2 credits in the summer in the following courses for each degree option:
 - Master's Non-Thesis students must enroll in course work that counts toward the graduate degree
 - Master's Thesis students must enroll in EMA 6971
 - Doctoral students must enroll in EMA 7980.
- This minimum final semester registration is applicable to all graduate students. The Graduate School will not accept petitions to this policy. Note that graduate assistants may be required to register for more credits and should see their letter of appointment for guidance.



