

## Ph.D. REQUIREMENTS MATERIALS CHEMISTRY PROGRAM

### First Year

- *Advisory Exams*
- *Begin taking required Materials Major courses.* At least three graduate-level courses in materials. There are two “tracks” of materials chemistry classes:
  - ✓ Inorganic materials, which includes: Chemistry of Inorganic Materials (**Chem 630**-Hamers) and Chemistry of Nanoscale materials (**Chem 630** – Jin).
  - ✓ Soft materials, which includes Synthetic Macromolecular Chemistry (**Chem 654** – Mahanthappa), Physical Chemistry of Macromolecules (**Chem 664**- Ediger), or Electrical, Magnetic, and Optical Properties of Molecular Materials (**Chem 842**-Blackwell).
  - ✓ At least one out of each track must be taken and at least one other graduate-level materials course approved by the Materials Chemistry Program Chair. Substitutions are permitted with approval of Materials Chemistry Program Chair and major advisor.
- File **Minor Agreement Form\*** (*completed during first semester, after joining research group*)
- *Attend Materials seminars* (often jointly hosted with analytical, inorganic or physical chemistry)
- *Join a research group by November 15*
- *Begin Research*

### Second Year

- Continue progress in thesis research
- Thesis research proposal and background exam - complete by end of spring semester (written proposal - format provided by division - and progress report on your own research; 30-minute seminar presentation; committee examination/defense)
- Finish required coursework (Major and Minor credits)
- Attend materials-related seminars

### Third Year

- Continue Research
- Attend Seminars
- Independent Research Proposal
  - Written proposal for research *outside* of your thesis area.
  - Check topic with adviser and materials chemistry chair before writing.
  - Written proposal, seminar presentation, and committee defense.
- File **Request for Preliminary Warrant\*** three weeks prior to research proposal when above requirements have been met.

### Fourth (and subsequent) Year(s)

- Continue Research
- Attend Seminars
- Write and defend Ph.D. Thesis
- File **Ph.D. Final Oral Committee Approval Form** three weeks before oral exam.

Semester deadlines for dissertator eligibility and degrees can be found at:  
<http://info.gradsch.wisc.edu/admin/academicservices/ddd.html>

*\*Forms may be obtained in Room 2108, Graduate Office*