

Emphasis - Chemical Engineering • M.S. in Engineering Science

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M.S. in Engineering Science

The M.S. in engineering science is offered in a number of emphasis areas: aeroacoustics, chemical engineering, civil engineering, computational hydroscience, computer science, electrical engineering, electromagnetics, environmental engineering, geology, geological engineering, hydrology, mechanical engineering, material science and engineering, and telecommunications.

Minimum Total Credit Hours: 30

Course Requirements

A student must complete the requirements for an emphasis area. For most emphasis areas, the degree may be completed as a:

- Thesis option (30-hour program, to include 6 hours of thesis),
- Nonthesis option (30- hour program, to include a minimum of 3 hours of a design-oriented project course), or
- · Coursework option (30-hour program, to include a final oral examination in front of a committee, but no written report)

Emphasis - Chemical Engineering Description

A degree of M.S. in engineering science with an emphasis in chemical engineering prepares graduates to apply chemical engineering science (transport phenomena, thermodynamics, chemical reaction engineering, and applied mathematics. It enables them to independently execute complex projects and pursue successful careers in engineering, medicine, law, professional education, public policy, the military, management, and sales.

Course Requirements

The M.S. with emphasis in chemical engineering requires 30 hours of course work. The specific course work is worked out between the student and his or her committee, but must include at least two of the following:

- Advanced Transport Phenomena I (Ch E 560)
- Advanced Transport Phenomena II (Ch E 561)
- Thermodynamics of Chemical Systems (Engr 665)
- Chemical Reaction and Reactor Analysis I (Engr 669)

Students will also complete additional 500-/600-level courses to bring the total up to 24 hours hours of coursework, plus 6 hours of thesis/project. Students pursuing the thesis option must take three semesters (1 hour each) of the Research Seminar (Ch E 515), which may count as

Other Academic Requirements

A candidate must prepare and orally defend a thesis or project.

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.

