GRADUATE PROGRAM REQUIREMENTS

for the degree of

Masters of Science, Non-Thesis Option

Version 19

Revised for August 2008 by RBD
A. INTRODUCTION

These guidelines describe the Program requirements for the degree of Master of Science, Non-Thesis in the Department of Chemical Engineering. It is the student’s responsibility to know and take appropriate steps to meet all Program requirements in this document. General requirements for the various degree program as well as descriptions of courses can be found in the University of Florida Graduate Catalog. A student is normally regulated by the rules set forth in the catalog published in the academic year of the student’s first term.

The Masters of Science, Non-Thesis (MSNT) degree program in Chemical Engineering at the University of Florida is designed to be completed in one academic year (namely, consecutive Fall, Spring, and Summer semesters). The program provides an opportunity to develop an in-depth knowledge of chemical engineering fundamentals, to emphasize a specific specialization area, and to acquire basic experience in research or industrial practice through a short internship.

B. PROGRAM REQUIREMENTS for MASTER OF SCIENCE – NON-THESIS (MSNT)

Course Requirements - The MSNT program requires a total of 30 credits of graduate courses. Of these, 15 credits must be non-research courses taken in the Chemical Engineering Department (including the three Basis courses: Molecular Basis, Mathematical Basis and Continuum Basis of Chemical Engineering), and 7 credits must be used to either carry out research in the chosen area of specialization or to conduct an internship with a partner industry or a government laboratory facility. This plan leaves 8 or more credits available for courses that may be taken in other departments, allowing the students to develop a specialization focus.

A typical schedule of courses is shown below. The sequence of courses is organized to allow students to take 10 credits in the Fall semester, 13 credits in Spring semester, and 7 credits in the Summer semester.

FALL semester  
Total: 10 credits
(3) ECH 6847 Mathematical Basis of Chem. Eng.
(3) ECH 6270 Continuum Basis of Chemical Eng.
(3) ECH 6272 Molecular Basis of Chemical Eng.
(1) ECH 6929 Chemical Engineering Seminar

SPRING semester  
Total: 13 credits
(3) Any Chem. Eng. Dept. course (including one reaction, kinetics or biochemical course if offered)
(3) Any Chem. Eng. Dept. course (including one reaction, kinetics or biochemical course if offered)
(3) Elective course taken inside or outside of the Chem. Eng. Dept.
(3) Elective course taken inside or outside of the Chem. Eng. Dept.
(1) ECH 6929 Chemical Engineering Seminar

SUMMER semester  
Total: 7 credits
(6) ECH 6971 Masters Research (6 credits) - Carry out Research Project and (1) ECH 6905 Individual Work (1 credit)

or

(7) ECH 6905 Individual Work (7 credits) - Carry out an internship with industry or a US government laboratory
**Research and/or Internships** - The 7 credits of research activities are intended to give the students experience in carrying out academic research. Alternatively, these 6 credits can be used to carry out a 3-month internship with a sponsoring company or US government laboratory, based on the availability of such opportunities. The department will facilitate the interaction with potential internship providers who will carry out interviews and generate offers based on their own set of criteria. A final written report describing the activities undertaken under the 7 credits of research or internship activities is required for graduation. The report must bear the joint signatures of the student and of the research or internship adviser, and must be submitted and approved before the end of the semester.

**Other** - MSNT are not eligible for financial support by a Graduate Assistantship. However, students who perform well in the MSNT program can apply for admission to the Ph.D. program; if admitted, such students will receive a Graduate Assistantship and a tuition waiver for the duration of their doctoral studies.

IMPORTANT: Students who intend to apply for the PhD must (without exception) complete the MSNT requirements before they receive funding for the PhD and begin their doctoral program. Such students are strongly advised to adhere to the suggested program of study given below.

**Tuition and Fees.** The MSNT program requires the completion of a total of 30 credit-hours. Students can calculate the cost of the program by multiplying 30 times the cost of one credit hour. The tuition and fees charges per credit hour are updated annually by the University of Florida, typically in the month of July, and the updated information is posted at the web site

http://www.reg.ufl.edu/regadate.htm

and also at

http://fa.ufl.edu/ufs/studentlinks.html

http://fa.ufl.edu/ufs/cashiers/feecalcreg.html

Note that the cost of a credit hour depends on whether the student is a Florida resident or non-Florida resident (which is the case for all international students).

**Cost-of-Living Expenses.** Additional cost-of living expenses can be estimated from the data posted at the following sites:

http://www.reg.ufl.edu/regadate.htm

http://www.rgp.ufl.edu/education/graduateadmissions.html

**Financial Requirements for all International students.** In order to qualify for a student visa to enter the United States, all international students admitted to the MSNT program are required to submit a *Certification of Financial Responsibility* form demonstrating that they have adequate financial support to cover all the costs of education and living expenses. A copy of the form can be obtained at the site:

http://www.reg.ufl.edu/financial-certification.html

Please refer to the bottom part of the form for a specific quotation of the financial requirements. Note that the figures quoted in the *Certification of Financial Responsibility* are based on a 24-credit program. Since the MSNT program requires 6 more credit hours for total of 32 credits, the student’s financial needs should be planned so that he/she has sufficient funds to cover the cost of registering for 6 additional credits hours plus the cost of summer living expenses.
C. OTHER POLICIES AND REQUIREMENTS

**Concurrent degrees** - Graduate students who wish to enroll in a concurrent degree program must obtain the appropriate forms from the graduate school. The graduate coordinator will sign these forms *only after consulting the chair and after the student's graduate adviser has given written approval for the student to enroll in the concurrent degree program.* A copy of all communications regarding the application for the program will be maintained in the student’s graduate folder with the Graduate Program Assistant (Shirley Kelly).

**Academic Honesty and Ethical Conduct in Research** - All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. Students are expected to produce their own work in homework, projects, and exams. Unauthorized collaboration in take-home exams, projects, and individual assignments is a serious violation of the university honor code and could lead to a grade decrease, course failure, and loss of degree status.

Students are expected to maintain high ethical standards in the conduct and reporting of scientific and scholarly research. Students are responsible for ethical research conduct to the University, to the academic community, to those sponsoring the research, and to the community at large. Research Misconduct, including fabrication or falsification of data, or plagiarism in proposing, performing, or reviewing research or reporting of results, is a most serious offense that can greatly damage the welfare and reputation of the students, faculty, and the University. For more information regarding Research Misconduct, see [http://www.admin.ufl.edu/DDD/attach06-07/R10101-0704.pdf](http://www.admin.ufl.edu/DDD/attach06-07/R10101-0704.pdf)

From the UF Student Handbook: “Plagiarism is not tolerated at the University of Florida. Plagiarism in a thesis or dissertation is punishable by expulsion. If the plagiarism is detected after the degree has been awarded, the degree may be rescinded. For a thorough discussion and the law, see [www.rbs2.com/plag.htm](http://www.rbs2.com/plag.htm). A briefer discussion and some tips for avoiding it are provided at [www.indiana.edu/~wts/pamphlets/plagiarism.shtml](http://www.indiana.edu/~wts/pamphlets/plagiarism.shtml).