The Master of Science - Non-Thesis Option

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.

Course Requirements

The MSNT program requires a total of 30 credits of graduate courses. Of these, 15 credits must be 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.

Note: the course *ECH 6971 Masters Research* cannot be counted towards satisfying the 15 credits that must be taken in the Chemical Engineering Department.

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

The MSNT program is a non-funded degree program; therefore, there is no opportunity for students pursuing this degree goal to obtain a graduate assistantship or fellowship of any kind from the University of Florida until they finish the M.S. non-thesis degree. 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.

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.

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.

FALL semester

- (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

Total: 10 credits

SPRING semester

(3) Any Chem. Eng. Dept. course (including one reaction, kinetics or biochemical course if offered)

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- (3) Elective course taken inside or outside of the Chem. Eng. Dept.
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- (1) ECH 6929 Chemical Engineering Seminar

Total: 13 credits

SUMMER semester

(6) ECH 6971 Masters Research (6 credits) - Carry out Research Project and (1) ECH 6905 Individual Work (1 credit)

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(7) ECH 6905 Individual Work (7 credits) - Carry out an internship with industry or a US government laboratory

Total: 7 credits

Cost

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://gradschool.rgp.ufl.edu/students/tuition.html. The link also provides information useful for estimating your living expenses.

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).

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.ufic.ufl.edu/downloads/iss/CFR.pdf

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.