

MASTER OF SCIENCE IN FOOD SAFETY AND TECHNOLOGY

Curriculum

Candidates are required to take a total of 32 credit hours, 18 of which must be selected from the core food safety and technology courses listed below, six to eight credit hours must be in research and thesis work and six to eight credit hours from electives. Courses are offered at the Mies Campus or via internet with the exception of FDSN 506.

Code	Title	Credit Hours
Core Course		(17)
FDSN 505	Food Microbiology	3
FDSN 506	Food Microbiology Laboratory	3
FDSN 507	Food Analysis	3
FDSN 524	Fundamentals of Food Science	3
FDSN 531	HACCP Planning and Implementation	3
FDSN 593	Seminars in Food Science and Nutrition (This course must be taken twice for one credit each time.)	2
Thesis Research		(6-8)
FDSN 591	Research and Thesis	6-8
Electives		(7-9)
Select seven to nine credit hours from the following:		7-9
FDSN 501	Advanced Nutritional Biochemistry	3
FDSN 502	Development, Delivery, and Dissemination	3
FDSN 504	Food Biotechnology	3
FDSN 508	Food Product Development	3
FDSN 509	Fundamentals of Biostatistics and Epidemiology in Food Science and Nutrition	3
FDSN 510	Fundamentals of Biostatistics and Epidemiology Laboratory in Food Science and Nutrition	1
FDSN 511	Food Law and Regulations	3
FDSN 519	Food Process Engineering Lab	3
FDSN 520	Low-Acid Canned Food Regulations and Microbiology	3
FDSN 521	Food Process Engineering	3
FDSN 522	Advanced Food Process Engineering	3
FDSN 523	Food Engineering Process Delivery	3
FDSN 526	Engineering Principles of Food	3
FDSN 535	Performance Management in Food Operations	3
FDSN 541	Principles of Food Packaging	3
FDSN 594	Special Projects	1-2
FDSN 597	Special Problems	1-4

Minimum degree credits required: 32

Research for the thesis must be carried out under the direct supervision of a participating faculty member. Based on the requirements of the research project, thesis committee members may be chosen from university faculty members from various departments, FdSN/FDA scientists, and the food industry scientists. The final thesis examination consists of submission of a written thesis followed by an oral presentation open to all FdSN/IFSH staff and the university community. As a part of the thesis, the student is expected to contribute scholarly article(s) to one or more high quality peer-reviewed journals. The student is also encouraged to present the research at a national professional society meeting.

Students may enroll in FDSN 594 and FDSN 597 up to a maximum of two credit hours between both courses when enrolled in six credit hours of thesis; or one credit hour when enrolled in seven credit hours of thesis. However, if the FDSN 597 is used as a short course, the student can register up to four credit hours in FDSN 597 with FdSN adviser approval. Students may not enroll in FDSN 594 or FDSN 597 when using eight credit hours of thesis unless FDSN 597 is used as a short course.

Students must have a minimum grade point average of 3.0/4.0. In addition to the core courses required and electives, further courses may be selected from other departments with the approval of the FdSN adviser to fit the background and needs of the individual student.