

MASTER OF FOOD PROCESS ENGINEERING

Curriculum

Candidates are required to take a total of 32 credit hours, 18 of which must be from the core courses listed below, 8-9 credit hours must be selected from FdSN elective courses, and 5-6 credit hours must be selected from the Department of Chemical and Biological Engineering courses. Courses are offered at the Illinois Institute of Technology Mies Campus or via internet with the exception of FDSN 506.

Core Courses			(18)
FDSN 505	Food Microbiology		3
FDSN 506	Food Microbiology Laboratory ¹		3
FDSN 521	Food Process Engineering		3
FDSN 522	Advanced Food Process Engineering		3
FDSN 524	Fundamentals of Food Science		3
FDSN 541	Principles of Food Packaging		3
Electives			(13-15)
Select a minimum of two courses from the following:			8-9
FDSN 501	Nutrition, Metabolism, and Health	3	
FDSN 502	Development, Delivery, and Dissemination	3	
FDSN 504	Food Biotechnology	3	
FDSN 507	Food Analysis	3	
FDSN 508	Food Product Development	3	
FDSN 511	Food Law and Regulations	3	
FDSN 520	Low-Acid Canned Food Regulations and Microbiology	3	
FDSN 523	Food Engineering Process Delivery	3	
FDSN 526	Engineering Principles of Food	3	
FDSN 531	HACCP Planning and Implementation	3	
FDSN 593	Seminar on Food Safety and Technology	1	
FDSN 594	Special Projects ²	1-6	
FDSN 597	Special Problems ²	1-6	
Select at minimum of two courses from the following:			5-6
CHE 426	Statistical Tools for Engineers	3	
CHE 439	Numerical and Data Analysis	3	
CHE 494	Process Design I	3	
CHE 560	Statistical Quality and Process Control	3	
CHE 577	Bioprocess Engineering	3	
ENVE 513	Biotechnological Processes in Environmental Engineering	3	
ENVE 542	Physiochemical Processes in Environmental Engineering	3	

Minimum degree credits required: 32

¹ FDSN 506 is required unless the student has enough professional experience to allow a substitute class; the decision will be made by the FdSN program director.

² Students can enroll in FDSN 594 and FDSN 597 with a maximum of 6 credit hours total between both courses with FdSN adviser approval. However, when FDSN 597 is used as a short course, the total credit hours must not exceed 8 between FDSN 594 and FDSN 597.

Students may enroll in a ChBE course that is not listed above, with FdSN adviser approval.