

GRADUATE PROGRAMS AT THE DEPARTMENT OF FOOD ENGINEERING

Master of Science and Doctor of Philosophy degrees are offered in the graduate program of Food Engineering.

GRADUATE CURRICULUM

M. S. in Food Engineering:

FDE	500	M.S. Thesis	NC
FDE	519	Transport Phenomena in Food Engineering	(3-0) 3
FDE	591	Seminar	NC
6 elective courses*			

Total minimum credits: 21
Number of courses with credit (min): 7

Ph.D. in Food Engineering:

If admitted by B.S. degree:

FDE	500	M.S. Thesis	NC
FDE	519	Transport Phenomena in Food Engineering	(3-0) 3
FDE	591	Seminar	NC
FDE	600	Ph.D. Thesis	NC
13 elective courses***			

Total minimum credits: 42
Number of courses with credit (min): 14

If admitted by M.S. degree:

FDE	600	Ph.D. Thesis	NC
FDE	519	Transport Phenomena in Food Engineering**	(3-0) 3
6 elective courses**, ***			
Total minimum credits: 21			
Number of courses with credit (min): 7			

* At least one from ES 501, ES 502, ES 507, ES 509, CHE 550, FDE 561 or one equivalent course with consent of department.

** will be replaced by an elective course if taken in the M.S. program.

*** At least two from ES 501, ES 502, ES 507, ES 509, CHE 550, FDE 561 or two equivalent courses with consent of department.

GRADUATE COURSES

FDE	500	M.S. Thesis	NC	FDE	579	Food Additives, Contaminants and Toxicology	(3-0) 3
FDE	510	Total Quality Management for the Food Industry	(3-0) 3	FDE	580	Food Packaging	(3-0) 3
FDE	511	Non-Thermal Processing Technology in Food Industry	(3-0) 3	FDE	581	Biochemical Engineering	(3-0) 3
FDE	515	Enzyme Engineering	(3-0) 3	FDE	582	Thermal Process Engineering	(3-0) 3
FDE	518	Advanced Process Calculations	(3-0) 3	FDE	585	Engineering Properties of Food	(3-0) 3
FDE	519	Transport Phenomena in Food Engineering	(3-0) 3	FDE	586	Supercritical Fluid Processing of Food	(3-0) 3
FDE	561	Food Engineering Analysis	(3-0) 3	FDE	587	Rheological Methods in Food Engineering	(3-0) 3
FDE	571	Advanced Food Biochemistry	(3-0) 3	FDE	589	Microwave Processing of Foods	(3-0) 3
FDE	572	Advanced Food Microbiology	(3-0) 3	FDE	591	Seminar I	NC
FDE	573	Advanced Biological Process Engineering	(3-0) 3	FDE	592	Seminar II	NC
FDE	575	Food Analysis	(3-0) 3	FDE	600	Ph.D. Thesis	NC
FDE	576	Industrial Microbiology	(3-0) 3	FDE	7XX	Special Topics in Food Engineering	(3-0) 3 or (2-2)3
FDE	578	Fabricated Foods Technology	(3-0) 3	FDE	8XX	Special Studies	(4-2) NC
				FDE	9XX	Advanced Studies	(4-0) NC