

MASTER OF ENGINEERING IN MANUFACTURING ENGINEERING

This program is aimed at broadening student potential beyond the B.S., enhancing technical versatility and, in some instances, providing the opportunity for changes in career path. The master of engineering program is a course-only degree program and requires a minimum of 30 credit hours. There is no thesis or comprehensive examination requirement. The student, in consultation with their adviser, prepares a program of study that reflects individual needs and interests. The adviser, as well as the department's graduate studies committee, and the department chair must approve this program. Students working toward this degree are not eligible for departmental financial support.

Curriculum

Materials Science and Engineering Emphasis

Code	Title	Credit Hours
Required Courses		(12)
MMAE 547	Comp Intgrted Manuf Technlgies	3
MMAE 560	Ststcl Quality Procs Control	3
Select a minimum of one course from the following:		3
MMAE 445	Computer-Aided Design	3
MMAE 545	Advanced CAD/CAM	3
MMAE 546	Adv Manufacturing Engineering	3
MMAE 576	Materials Process Selection	3
Select a minimum of one course from the following numerical methods courses:		3
MMAE 451	Finite Elmnt Methods in Engrg	3
MMAE 517	Computational Fluid Dynamics	3
MMAE 532	Finite Element Methods II	3
MMAE 544	Design Optimization	3
MMAE 570	Computational Methods in MSE	3
Elective Courses		(18)
Select 18 credit hours		18
Total Credit Hours		30

Mechanical and Aerospace Engineering Emphasis

Code	Title	Credit Hours
Required Courses		(18)
MMAE 545	Advanced CAD/CAM	3
MMAE 546	Adv Manufacturing Engineering	3
MMAE 547 or MMAE 557	Comp Intgrted Manuf Technlgies Comp Intgrtd Manfctrng Systems	3
MMAE 560	Ststcl Quality Procs Control	3
Select a minimum of one course from the following:		3
MMAE 445	Computer-Aided Design	3
MMAE 576	Materials Process Selection	3
MMAE 585	Engg Optics & Laser-Based Manu	3
Select a minimum of one course from the following numerical methods courses:		3
MMAE 451	Finite Elmnt Methods in Engrg	3
MMAE 517	Computational Fluid Dynamics	3
MMAE 532	Finite Element Methods II	3
MMAE 544	Design Optimization	3
MMAE 570	Computational Methods in MSE	3
Elective Courses		(12)
Select 12 credit hours		12
Total Credit Hours		30