

The Minor in Manufacturing

Course Requirements for the Minor: 23-26 units

The following courses, or their approved transfer equivalents, are required of all candidates for this minor.

Course Number	Course Title	Prerequisites	Semester Units	Semester Offered
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3 courses required:

OSCM 306	Operations Management	Completion of GE Pathway Foundation Quantitative Reasoning	3	FS
SMFG 160	Manufacturing Processes		3	FS
SMFG 451	Quality Management	OSCM 306 or faculty permission. This course is also offered as OSCM 451	3	SP

1 course selected from the first group OR both courses in the second group:

CMGT 110	Construction Graphics		3	FS
MECH 100	Graphics I	Corequisite: MECH 100L	1	FS
MECH 100L	Graphics I Laboratory	Corequisite: MECH 100	1	FS

1 course selected from:

MATH 107	Finite Mathematics for Business	Completion of ELM requirement	3	FS
MATH 119	Precalculus Mathematics	Completion of ELM requirement; and either 1/2 year of high school trigonometry or MATH 118	4	FS
MATH 120	Analytic Geometry & Calculus	Completion of ELM requirement; MATH 118; MATH 119; pass score on calculus readiness exam	4	FS

1 course selected from:

BADM 103	Statistics of Business & Economics		3	FS
ECON 102	Principles of Macro Analysis		3	FS
MATH 105	Statistics	Completion of ELM requirement	3	FS
MATH 108	Statistics of Business & Economics	Completion of GE Pathway Foundation Quantitative Reasoning	3	FS

1 course selected from:

CMGT 457	Project Control & Scheduling	CMGT 450	3	FS
MECA 440A	Mechatronic Engineering Capstone Design I	ENGL 130 or JOUR 130 with grade of C- or higher; EECE 344; MECH 200; MECH 340	3	FA
MECH 440A	Mechanical Engineering Capstone Design I	ENGL 130 or JOUR 130 with grade of C- or higher; MECH 200; MECH 340	3	FA
MGMT 303	Survey of Management		3	FS
OSCM 443	Production Mgmt & Control Systems	OSCM 306	3	FS
SMFG 350	Industrial Supervision	Junior standing	3	SP

1 course selected from first group OR both courses in second group:

SMFG 216	Introduction to Plastics	CHEM 107	3	SP
SMFG 260	Material Removal	SMFG 160 with a grade of C- or higher	3	SP
SMFG 458	Project Management	Senior Standing	3	FA
MECH 200	Graphics II	MECH 100; MECH 100L	2	FS
SMFG 201	Graphics Applications for Manufacturing	MATH 105; MECH 200	2	SP