

**Michigan State University**  
**Department of Mechanical Engineering**

**MANUFACTURING ENGINEERING CONCENTRATION**  
(13 Credits)

*IMPORTANT: 1) For the latest and most accurate version of this concentration, please refer to the Dept. of Mechanical Engineering website. Earlier versions are invalid and will not be honored. 2) You MUST meet with the ME junior/senior advisor and arrange for the concentration code to be added to your record PRIOR to applying for graduation. This ensures that the concentration statement will appear on your final transcript. To make an appointment, call 517-355-3338.*

Many mechanical engineers are involved in manufacturing as their primary work assignment. Many more will have at least some involvement in manufacturing during their careers. The mechanical engineering program provides an opportunity for students to enhance their degree with a concentration in manufacturing engineering.

To complete a Bachelor of Science degree in mechanical engineering with a manufacturing engineering concentration, students must complete all requirements for the B.S. degree, including the following:<sup>1</sup>

•ME 372 Machine Tool Laboratory	1 credit (Fall, Spring)
•ME 477 Manufacturing Processes	3 credits (Fall, Spring)
•ME 478* Product Development	3 credits (Spring Only)

Plus one course from the following list:

•ECE 415 Computer Aided Manufacturing <sup>2</sup>	3 credits (Fall Only)
•CHE 472 Composite Materials Processing	3 credits (Fall Only)
•ME 426 Introduction to Composite Materials	3 credits (Spring Only)

Plus one course from the following list:

EC 201 Introduction to Microeconomics	3 credits (Fall, Spring, Summer)
ACC 230 Survey of Accounting Concepts	3 credits (Fall, Spring, Summer)

**CREDIT DISTRIBUTION:** The nine 400-level engineering credits will be applied to the Senior Elective requirement, including the “design intensive” course component. The remaining 4 credits will apply to Other Electives. Completion of the concentration will be noted on the final transcript.

The asterisk (\*) signifies that the course is design intensive.

<sup>1</sup>Some courses on the concentration may require an override before enrolling. Contact the ME Advisor for information.

<sup>2</sup>You must be at least concurrently enrolled in ME 451 to take ECE 415.