

Michigan State University
Department of Mechanical Engineering

MANUFACTURING ENGINEERING CONCENTRATION

(13 - 16 Credits)

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:¹

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|-----------------------------------|------------------------------------|
| 1) ME 477 Manufacturing Processes | 3 credits (Fall Only) ² |
| 2) ME 478 Product Development | 3 credits (Spring Only) |
| 3) ME 372 Machine Tool Laboratory | 1 credit (Fall, Spring) |

Plus one course from the following list:

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| 1) ECE 415 Computer Aided Manufacturing | 3 credits (Fall Only) |
| 2) CHE 472 Composite Materials Processing | 3 credits (Fall Only) |
| 3) MSE 426 Introduction to Composite Materials | 3 credits (Spring Only) |

Plus ONE of the following alternatives:

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| EC 210 Economics Principles Using Calculus | 3 credits (Fall Only) |
| } EC 201 Introduction to Microeconomics | 3 credits (Fall, Spring,
3 credits (Fall, Spring, Summer) |
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CREDIT DISTRIBUTION: The nine 400-level engineering credits will be applied to the Senior Elective requirement (*not* the “design intensive” course component, however). The remaining 4 - 7 credits on the option will apply to Other Electives. Completion of the concentration will be noted on the final transcript.

¹Some courses on the concentration require an override before enrolling. Contact the ME Advisor for information.

²ME 477 may be on the spring schedule as a special offering. Consult the Schedule of Courses website.