

# Accelerated BS/MS Program in Mechanical Engineering

This accelerated program gives outstanding bachelor's degree students in Mechanical Engineering a "fast-track" option to pursue their Master of Science degree in Mechanical Engineering or Measurement and Control Engineering. In doing so, it provides a "step-up" for students entering industry or areas of research and development.

The goals for this program are the same as the goals stated for the MSME and MSMCE programs (<https://coursecat.isu.edu/graduate/scienceengineering/mechanicalengineering/#text>) described in the graduate catalog (<https://coursecat.isu.edu/graduate/scienceengineering/mechanicalengineering/#text>).

Students accepted into the accelerated program may take up to 12 credit hours of 5000-level courses during the last two semesters of their bachelor's program that will apply to both the bachelor's and master's degree requirements. Students have to meet all requirements for both the bachelor's degree and master's degree.

## Additional Requirements

- One of the 5000-level courses (3 credits) must be ME 5521, Engineering Modeling and Analysis.
- Students must earn at least a "B" (3.0) in each graduate-level course counted for the program.

## Eligibility

- Completion of at least 70 undergraduate credits applicable to the Bachelor of Science in Mechanical Engineering program at the time of application.
- Overall GPA of at least 3.0 on a 4.0 scale at the time of application.
- Completion of ME 3307, Thermodynamics, ME 3350, Mechanics of Materials, ME 3320, Kinematics, and ME 3323, Machine Design with a GPA computed for these courses of at least 3.3 on a 4.0 scale at the time of application.
- Students may submit their application while taking ME 3341, Fluid Mechanics, ME 4476, Heat Transfer, and ME 3325, Machine Design II.
- Students who wish to enroll in this program must submit an application no later than March 15th of the second semester of their junior year, as described above, to the Engineering Office.

Meeting these eligibility requirements does not guarantee acceptance into the accelerated master's degree programs. Students will be notified of their acceptance/denial into the accelerated program.

Students must also submit an online application to the Graduate School (<https://www.isu.edu/apply/graduate/>) no later than April 1st or November 1<sup>st</sup> of the semester they will complete their bachelor's degree requirements and receive a letter of admission (approved/denied) after the application review. This will facilitate the student's reclassification as a Graduate student in the institution. Applicants are not required to take the Graduate Record Examination (GRE) test.

## Suggested Courses

Code	Title	Credits
ME 5521	Engineering Modeling, Analysis, and Simulation <sup>1</sup>	3
ME 5525	Mechatronics	3
ME 5540	Vibration Analysis	3
ME 5564	Engineering Numerical Techniques	3

ME 5573	Mechanical Control Systems	3
Others upon discussion with advisor		

<sup>1</sup> Required

**For a course list including the degree requirements for the BS Program, click here.**