

Mechanical and Industrial Engineering Department

Advising Frequently Asked Questions

1. Lower Division Questions and Questions that apply to both Mechanical and Industrial Engineering majors:

- a. If I have already taken IE 1225 – Intro to Design and Manufacturing, do I need to take IE 2222 – Design for Manufacturing Lab?
 - i. NO – The lab content in IE 1225 will be the majority of the lab content in IE 2222.
- b. If I have taken ME 2105 Material Science for Engineering (with lab), do I still need to take IE 3122 Materials Engineering Lab?
 - i. YES – The lab content in IE 3122 will also include the lab content in the lab version of Materials Processes (IE 3135).
- c. If I have taken IE 3135 Materials Processes, do I need to take IE 3122 – Materials Engineering Lab?
 - i. NO – The labs in IE 3122 will be redundant to what you had in IE 3135.
- d. I have heard that companies want engineers who can do "lean" and "6 Sigma." Should I study IE or ME to have the best handle on these?
 - i. Industrial Engineering is the program that covers these tools for process improvement and enhancing competitiveness.

2. Upper Division Questions:

a. For Mechanical Engineering:

- i. For ME 4245, Machining and Machine Tools. It will be taught in the Spring of 2007. It can be applied in two different ways toward your degree. If you took ME 3140, Controls, then ME 4245 will apply as a technical elective. If you did not take ME 3140, then ME 4245 will apply toward fulfilling that degree requirement and you will be required to take a controls elective.

b. For Industrial Engineering: