

ME CURRICULUM SHEET



General Student*

You are not required to take classes in this exact order.

Everything is set up based on prerequisites - if you meet the prerequisite, then you can take the class.

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
MA 1713 - Calculus I	ME 1111 - Intro to ME	ME 2133 - Mod. & Manuf. Prereq: ME 1111 (SO Standing)	EM 3213 - Mech. of Mat'l Prereq: EM 2413, MA 2733	EM 3313 - Fluid Mech. Prereq: EM 2413, MA 2733	ME 3613 - System Dynamics Prereq: EM 2433, MA 3253, ME 3113	ME 4403 - Machine Design Prereq: EM 3213, ME 2133 Coreq: ME 3403, ME 3423	ME 4433 - CDI Prereq: ME 3423 Coreq: ME 4403
CH 1213 - Chem. I	PH 2213 - Physics I Prereq: MA 1713	PH 2223 - Physics II Prereq: PH 2213, MA 1723	MA 3253 - DE I Coreq: MA 2743	ME 3113 - Eng. Analysis Prereq: CSE 1263, MA 1723, PH 2213	ME 3423 - Mech. of Machinery Prereq: EM 2433, ME 3113	ME 4643 - Vibration & Controls Prereq: ME 3613	ME 4111 - Professional Seminar (SR Standing)
CH 1211 - Chem. I Lab	MA 1723 - Calculus II Prereq: MA 1713	MA 2733 - Calculus III Prereq: MA 1723	MA 2743 - Calculus IV Prereq: MA 2733	ME 3403 - Mat'l for ME Design Prereq: CH 1223, EM 2413 Coreq: EM 3213	ME 3103 - Exp. Meas. & Techniques Coreq: GE 3513, ME 3523	IE 3913 - Engr. Economy I Prereq: MA 1713	ECE 3413 - Intro to Elec. Circuits Coreq: MA 3113
EN 1103 - Comp I	CH 1223 - Chem. II (No lab required) Prereq: CH 1213	MA 3113 - Linear Alg. Prereq: MA 1723	ME 3513 - Thermo. I Prereq: CH 1213, CH 1211, MA 2733, PH 2213	ME 4401 - SML (Materials Lab) Prereq: EM 2433, EM 3213 Coreq: ME 3403	ME 3313 - Heat Transfer Prereq: EM 3313, MA 3253, ME 3513	ME 4333 - ESD Prereq: ME 3313, ME 3113	*[Humanities Elective]
*[Soc/ Beh Elective]	EN 1113 - Comp. II Prereq: EN 1103	EM 2413 - Eng. Mech I (Statics) Prereq: PH 2213, MA 1723	EM 2433 - Eng. Mech II (Dynamics) Prereq: EM 2413, MA 2733	ME 3523 - Thermo. II Prereq: ME 3513, CH 1223	ME 4301 - TFL (Heat/Mass Transfer Lab) Prereq: ME 3523, EM 3313 Coreq: ME 3313	**[Technical Elective]	*[Soc/ Beh Elective]
*[Creative Discovery Elective]	CSE 1263 - Computer Programming Python Alternatives: CSE 1284, 1233, or 1273	15 Hours	*[Humanities Elective]	GE 3513 - PCE Prereq: EN 1103, EN 1113 (JR Standing)	**[Technical Elective]	15 Hours	**[Technical Elective]
16 Hours	16 Hours		18 Hours	16 Hours	16 Hours		16 Hours

*Typical Freshman route

IMPORTANT NOTES

- Course(s) requiring a C or Better have **BOLDED BLUE BORDERS**
- Last Digit of in Course Number is Credit Hours
Example: MA 1723 = 3 credit hours
- *[MSU Core Elective] - Humanities, Soc/Beh Science, & Fine Arts
- **[Technical Elective] - At least 1 tech. elect **MUST** be ME 4XXX

ME CURRICULUM SHEET



Transfer Student

You are not required to take classes in this exact order.

Everything is set up based on prerequisites - *if you meet the prerequisite, then you can take the class.*

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
MA 1713 - Calculus I	PH 2213 - Physics I <i>Prereq: MA 1713</i>	PH 2223 - Physics II <i>Prereq: PH 2213, MA 1723</i>	MA 2743 - Calculus IV <i>Prereq: MA 2733</i>	ME 3113 - Eng. Analysis <i>Prereq: CSE 1263, MA 1723, PH 2213</i>	ME 2133 - Mod. & Manuf. <i>Prereq: ME 1111 (SO Standing)</i>	ME 4403 - Machine Design <i>Prereq: EM 3213, ME 2133 Coreq: ME 3403, ME 3423</i>	ME 4433 - CDI <i>Prereq: ME 3423 Coreq: ME 4403</i>
CH 1213 - Chem. I	MA 1723 - Calculus II <i>Prereq: MA 1713</i>	EM 2413 - Eng. Mech I (Statics) <i>Prereq: PH 2213, MA 1723</i>	EM 2433 - Eng. Mech II (Dynamics) <i>Prereq: EM 2413, MA 2733</i>	ME 3513 - Thermo. I <i>Prereq: CH 1213, CH 1211, MA 2733, PH 2213</i>	ME 3423 - Mech. of Machinery <i>Prereq: EM 2433, ME 3113</i>	ME 3613 - System Dynamics <i>Prereq: EM 2433, MA 3253, ME 3113</i>	IE 3913 - Engr. Economy I <i>Prereq: MA 1713</i>
CH 1211 - Chem. I Lab	CH 1223 - Chem. II (No lab required) <i>Prereq: CH 1213</i>	MA 2733 - Calculus III <i>Prereq: MA 1723</i>	MA 3253 - DE I <i>Coreq: MA 2743</i>	GE 3513 - PCE <i>Prereq: EN 1103, EN 1113 (JR Standing)</i>	ME 3103 - Exp. Meas. & Techniques <i>Coreq: GE 3513, ME 3523</i>	ECE 3413 - Intro to Elec. Circuits <i>Coreq: MA 3113</i>	ME 4643 - Vibration & Controls <i>Prereq: ME 3613</i>
EN 1103 - Comp I	EN 1113 - Comp. II <i>Prereq: EN 1103</i>	MA 3113 - Linear Alg. <i>Prereq: MA 1723</i>	*[Soc/ Beh Elective]	EM 3213 - Mech. of Mat'l <i>Prereq: EM 2413, MA 2733</i>	ME 3403 - Mat'l for ME Design <i>Prereq: CH 1223, EM 2413 Coreq: EM 3213</i>	ME 3313 - Heat Transfer <i>Prereq: EM 3313, MA 3253, ME 3513</i>	ME 4333 - ESD <i>Prereq: ME 3313, ME 3113</i>
*[Soc/ Beh Elective]	CSE 1263 - Computer Programming Python Alternatives: CSE 1284, 1233, or 1273	*[Humanities Elective]	*[Humanities Elective]	EM 3313 - Fluid Mech. <i>Prereq: EM 2413, MA 2733</i>	ME 4401 - SML (Materials Lab) <i>Prereq: EM 2433, EM 3213 Coreq: ME 3403</i>	ME 4301 - TFL (Heat/Mass Transfer Lab) <i>Prereq: ME 3523, EM 3313 Coreq: ME 3313</i>	**{Technical Elective}
*[Creative Discovery Elective]	15 Hours	15 Hours	15 Hours	ME 1111 - Intro to ME	ME 3523 - Thermo. II <i>Prereq: ME 3513, CH 1223</i>	**{Technical Elective}	**{Technical Elective}
16 Hours				16 Hours	16 Hours	17 Hours	18 Hours

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