

# Mississippi State University – Engineering on the Coast

## Mechanical Engineering Curriculum Sheet

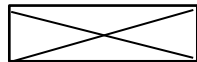
*You are not required to take the classes in this exact order. Everything is set up based on prerequisite requirements – if you meet the prerequisites you can take the class.*

1 <sup>st</sup> Semester - CC	2 <sup>nd</sup> Semester - CC	3 <sup>rd</sup> Semester - CC	4 <sup>th</sup> Semester - CC	5 <sup>th</sup> Semester - MSU	6 <sup>th</sup> Semester - MSU	7 <sup>th</sup> Semester - MSU	8 <sup>th</sup> Semester - MSU
MAT 1613 – Calculus I <b>MA 1713</b>	PHY 2514*** <b>PH2213</b> Physics I w/Calculus Prereq: Cal I	PH 2524– Physics II*** <b>PH2223</b> Physics II w/Calculus Prereq: Phys I & Cal II	EGR 2433 – Engr Mech II <b>EM2433</b> (Dynamics) Prereq: EM I & Cal III	ME 1111 – Intro to Mechanical Engineering Prereq: <b>Cal II</b>	ME 3523 – Thermodynamics II Prereq: <b>ME 3513</b>	ME 4403 – Machine Design Prereq: <b>EM 3213 &amp; ME2133</b> Coreq: ME 3403	ME 4443 – Mechanical System Design Prereq: ME 3423 & 4403
CHE 1214 Pre-req: Gen Chemistry I w/lab	MAT 1623 – Calculus II <b>MA 1723</b> Prereq: Cal I	EGR 2413 – Engr Mech I <b>EM2413</b> (Statics) Prereq: Phys I & Cal II	MA 2623 – Calculus IV <b>MA2743</b> Prereq: Cal III	ME 2133 Modeling & Manufacturing (Sophomore Standing)	ME 3403 – Materials for ME Design Prereq: <b>Chem II, EM I</b> Coreq: EM 3213	ME 3313 – Heat Transfer Prereq: <b>EM 3313, DE, ME 3513</b>	ME 4333 – ESD Prereq: ME 3313 & 3113
MSU only CH1213 + CH1211	CHE 1224 – Chem II <b>CH1223</b> Prereq: Chem I	MAT 2613 – Calculus III <b>MA2733</b> Prereq: Cal II	MAT 2913 Differential Equations I <b>MA3253</b> Coreq: Cal IV	EM 3213 – Mechanics of Materials Prereq: <b>EM I &amp; Cal III</b>	ME 3423 – Mech of Machinery Prereq: <b>EM II &amp; ME 3113</b>	ME 3613 – System Dynamics Prereq: EM 2433, 3313, ME 3113	ME 4301 – Thermo Fluids Lab Prereq: ME 3103, 3313, 3523, EM 3313
ENG 1113 – Comp I <b>EN1103</b>	ENG 1123 – Comp II <b>EN1113</b> Prereq: Comp I	<b>CSC 2134</b> - Computer Programming I with C++	*Humanities Elective MFL, HIS, PHI, Eng Lit only	EM 3313 – Fluid Mechanics Prereq: <b>EM I &amp; Cal III</b>	GE 3513 – Tech Writing (Junior Standing) Prereq: Eng Comp I & II	ME 3103 – Exp Measures & Techniques Coreq: ME 3523 & GE 3513	ME 4401 – Solid Mechanics Lab Prereq: EGR 2433, EM 3313, ME 3103, ME 3403
*Humanities Elective MFL, HIS, PHI, Eng Lit only	*Soc/Beh Science Elective EPY, PSY, SOC, PSC, GEO, or ECO	MAT 2113 Linear Algebra <b>MA 3113</b> Prereq: Cal II	*Soc/Beh Science Elective EPY, PSY, SOC, PSC, GEO, or ECO	ME 3113 – Engr Analysis Prereq: C++, <b>Lin Alg, DE, Phys I</b>	IE 3913-Eng. Econ I Prereq: Cal I	ECE 3413 – Intro to Electronic Circuits Prereq: <b>Phys II, Cal II</b>	ME 4111 – Professional Seminar (Senior Standing)
*Fine Arts Elective ART 1113 or MUS 1113 or SPT 2233	<p><b>Courses outlined in bold require a grade of “C” or better.</b></p> <p>Community College courses listed in <b>blue</b>. MSU equivalent listed in <b>maroon</b>.</p> <p>* Core electives (Humanities, Social/Behavioral Science, Fine Arts) must come from approved list</p> <p>** Technical Elective must be approved – 2 ME; or 1 ME and 1 non-ME; TE from ME list or based on consultation with academic advisor</p> <p>*** Physics must be Calculus based</p> <p>Questions? <a href="mailto:coast@bagley.msstate.edu">coast@bagley.msstate.edu</a></p>			ME 3513 – Thermodynamics I Prereq: <b>Chem I, Cal III, Phys I</b>		**Technical Elective	ME 4643 – Intro to Vibration & Controls Prereq: ME 3613

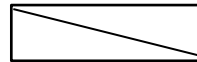
NAME: \_\_\_\_\_

NET ID: \_\_\_\_\_

Degree Audit Completed: \_\_\_\_\_



Classes Taken



Classes In Progress