

**BSME SCHEDULE -- Basic Program**

FALL	WINTER	SPRING
MATH 11/Calc & Analyt Geom I CHEM 11*/Gen Chem I MECH 10*/Graph Comm Des (F,W,Sp) ENGR 1/Intro Eng Core Req.	MATH 12/Calc & Analyt Geom II PHYS 31/for Sci & Eng I ENGL 1/Comp & Rhetoric I MECH 15*/ Intro Material Sci. (W/S)	MATH 13/Calc & Analyt Geom III PHYS 32*+ Lab /for Sci & Eng II ENGL 2/Comp & Rhetoric II Core Req.
MATH 21/Calc & Analyt Geom IV PHYS 33*+ Lab /for Sci & Eng III CENG 41/Mech I - Statics Core Req.	AMTH 106/Differential Equations COEN 44*/Applied Programming ELEN 50*/ Electric Circuits I Core Req.	AMTH 118/Numerical Methods CENG 43*/Mech III – Str of Mat MECH 11/ Mats & Man Process Core Req.
MECH 114/Machine Design I MECH 114L/Machining Lab MECH 122*/Fluid Mechanics MECH 140/Dynamic Systems I MECH 102 <sup>1</sup> /Intro Mathematical Mthds	MECH 115/Machine Design II MECH 121/Thermodynamics I MECH 141*/Dynamic Systems II Core Req.	MECH 142*/Dynamic Systems III MECH 123*/Heat Transfer Technical Elective Core Req.
MECH 192/Tech Writing for Mech (2) MECH 194/Advanced Design I (3) MECH 125/Thermal Systems Design	MECH 195/Advanced Design II MECH 160*/Mod. Instrumentation Core Req.*	MECH 196/Advanced Design III (3) Free Elective Technical Elective**

**Total: 192 units**

**BS/MS ME SCHEDULE -- Graduate School Option (3.0 GPA Required)**

FALL	WINTER	SPRING
MATH 11/Calc & Analyt Geom I CHEM 11*/Gen Chem I MECH 10*/Graph Comm Des (F,W,Sp) ENGR 1/Intro Eng. Core Req.	MATH 12/Calc & Analyt Geom II ENGL 1/Comp & Rhetoric I PHYS 31/for Sci & Eng I MECH 15*/Intro Material Sci. (W/S)	MATH 13/Calc & Analyt Geom III PHYS 32*/for Sci & Eng II ENGL 2/Comp & Rhetoric II Core Req.
MATH 21/Calc & Analyt Geom IV PHYS 33*/for Sci & Eng III CENG 41/Mech I - Statics Core Req.	AMTH 106/Differential Equations COEN 44*/Applied Program ELEN 50*/Electric Circuits I Core Req.	AMTH 118/Numerical Methods CENG 43*/ Mech III – Str of Mat Free Elective MECH 11/Mat & Man Process
MECH 114/Machine Design I MECH 114L/Machining Lab MECH 122*/Fluid Mechanics MECH 140/Dynamic Systems I MECH 102 <sup>1</sup> /Intro Mathematical Mthds	MECH 115/Machine Design II MECH 121/Thermodynamics I MECH 141*/Dynamic Sys. II Core Req.	MECH 142*/Dynamic Systems III MECH 123*/Heat Transfer Technical Elective Core Req.
MECH 192/Tech Writing for Mech (2) MECH 194/Advanced Design I MECH 125/Thermal Systems Design Grad. Class (2)	MECH 195/Advanced Design II MECH 160*/ Mod. Instrumentation Core Req.* Grad. Class (2)	MECH 196/Advanced Design III(3) Technical Elective ** Grad. Class (2) Grad. Class (2) Grad. Class (2)
Grad. Class (2) Grad. Class (2) Grad. Class (2) Grad. Class (2) Thesis (3)	Grad. Class (2) Grad. Class (2) Grad. Class (2) Grad. Class (2) MECH 297/Seminar Thesis (3)	Grad. Class (2) Grad. Class (2) Grad. Class (2) Grad. Class (2) Thesis (4)

\* = Five (5) units

\*\* = Can be 4 graduate units

**Total:192 undergrad/45 grad units**

<sup>1</sup> Requirements based on previous Math performance; if not taken, an alternate Math/Science elective must be.