

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING COURSE PLAN BY SEMESTER

Catalog Year
2017—2018

**TOTAL
CREDITS:
122-124**

For questions about program requirements, please contact your advisor. Boise State recommends that you meet with an advisor annually to ensure that problems are identified and resolved quickly.

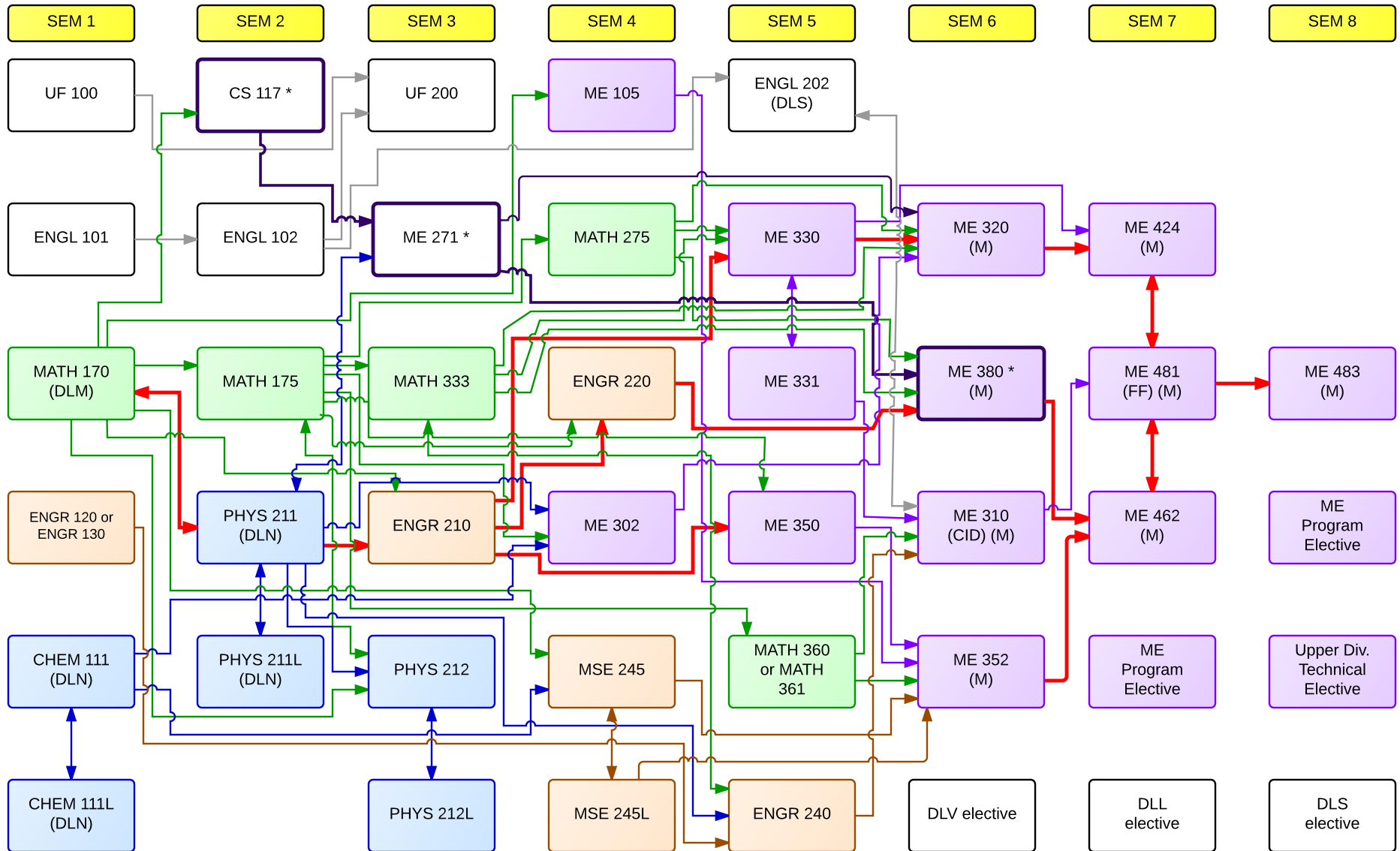
Highlighted courses are core for upper-division consideration.

FIRST YEAR					
Fall Semester			Spring Semester		
CHEM 111	College Chemistry (DLN)	3	CS 117†	Introduction to C++	3
CHEM 111L	College Chemistry Lab (DLN)	1	ENGL 102	English Composition	3
ENGL 101	English Composition	3	MATH 175	Calculus II	4
ENGR 120 or ENGR 130	Introduction to Engineering	3-4	PHYS 211	Mechanics, Waves & Heat (DLN)	4
UF 100	Intellectual Foundations	3	PHYS 211L	Mechanics, Waves & Heat Lab (DLN)	1
MATH 170	Calculus 1 (DLM)	4			
TOTAL CREDITS		17-18	TOTAL CREDITS		15
SECOND YEAR					
Fall Semester			Spring Semester		
PHYS 212	Electricity, Magnetism & Optics	4	MATH 275	Multiple Variable & Vector Calculus	4
PHYS 212L	Electricity, Magnetism & Optics Lab	1	ENGR 220	Engineering Dynamics	3
MATH 333	Differential Equations and Matrix Theory	4	MSE 245	Introduction to Materials Science & Engineering	3
ENGR 210	Engineering Statics	3	MSE 245L	Introduction to Materials Science & Engineering Lab	1
UF 200	Civic and Ethical Foundations	3	ME 302 or ENGR 320	Thermodynamics I	3
ME 271†	Introduction to Computation for Engineers	1	ME 105	Mechanical Engineering Graphics	3
TOTAL CREDITS		16	TOTAL CREDITS		17
THIRD YEAR					
Fall Semester			Spring Semester		
MATH 360 or MATH 361*	Engineering Statistics or Probability and Statistics*	3	ME 380†	Kinematics & Machine Dynamics	3
ME 330	Fluid Mechanics	3	ME 320	Heat Transfer	3
ME 331	Fluid Mechanics Lab	1	ME 310	Experimental Methods Lab (CID)	2
ME 350	Engineering Mechanics of Materials	3	ME 352	Machine Design I	3
ENGR 240	Introduction to Circuits	3	DLV	Visual and Performing Arts Elective	3
ENGL 202	Technical Communication (DLS)	3			
TOTAL CREDITS		16	TOTAL CREDITS		14
FOURTH YEAR					
Fall Semester			Spring Semester		
ME 481	Senior Design Project I (FF)	3	ME 483	Senior Design Project II	3
ME 424	Thermal & Fluids Systems Design	3	ME	ME Program Elective	3
ME 462	Machine Design II	3	Tech Elective	Upper-Division Technical Elective	3
ME	ME Program Elective	3	DLS	Social Science Second Field Elective	3
DLL	Literature and Humanities Elective	3-4			
TOTAL CREDITS		15-16	TOTAL CREDITS		12

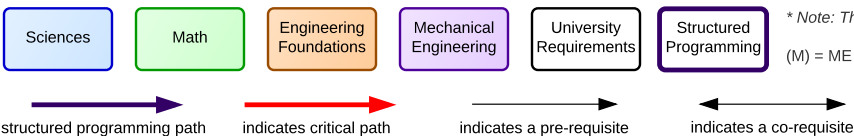
† This programming sequence is the only approved way to complete the structured programming requirement for the ME degree.
* In this instance, either course meets the requirement.

Mechanical Engineering Curriculum Flowchart

(rev. 4/17)



KEY:



* Note: The only approved combination to complete the ME structured programming requirement is CS117, ME 271, and ME 380.

(M) = ME major status required