BS in Engineering Curriculum – MECH Concentration MECH ENGR - TIER III: Math ACT of 25 or higher/Math SAT of 570 or higher

Freshman Fall Semester		Freshman Spring Semester			
MATH 115	Precalculus	3	MATH 122	Calculus I	4
ENGR 100	Freshman Seminar	1	BIOL 111	Basic Biology & Lab	4
ENGR 120	Foundations of Engineering	3	ENGR 121	Foundations of Engineering	3
	Design I			Design II	
ENGL 101	Academic Writing	3	ENGL 102	Academic Writing & Literature	3
CHEM 111	General Chemistry I & Lab	4	CHEM 113	General Chemistry II & Lab	4
CUC 100	Connections	0.5	CUC 100	Connections	0.5
Semester Total:		14.5		Semester Total:	18.5

Sophomore Fall Semester		Sophomore Spring Semester			
MATH 223	Calculus II	4	MATH 224	Calculus III	4
PHYS 251	Physics I & Lab	4	ENGR 260	Electrical Circuits & Lab	4
ENGR 220	Statics/Strength of	3	ENGR 330	Dynamics	3
	Materials				
ENGR 240	Engineering Materials &	4	PHYS 252	Physics II & Lab	4
	Processes				
ENGL 2xx	English Literature	3	CUC 200	Connections	0.5
			HIST 111 or	Western Civilization 1 or 2	3
			112		
Semester Total:		18.0		Semester Total:	18.5

Junior Fall Semester		Junior Spring Semester			
MATH 337	Differential Equations	3	ENGR 320	Fluids	3
ENGR 300	Engineering Economics	3	MECH 345	Advanced Thermodynamic	3
				Systems	
ENGR 380	Thermodynamics	3	MECH 365	Heat Transfer	3
ENGL 305	Technical Writing and	3	MECH 375	Machine Design	3
	Presentations				
MECH 325	Advanced Strength &	4	CHRS 125	Introduction to Christianity	3
	Mechanics of Materials &				
	Lab				
			CUC 200	Connections	0.5
Semester Total:		16.0	Semester Total: 15		15.5

Senior Fall Semester			Senior Spring Semester		
ENGR 440	Sensors & Controls & Lab	3	ENGR 491	Senior Design II	3
HUM/FINE	Elective	3	ENGR 460	Statistical Methods for	3
ARTS				Engineers	
ENGR 490	Senior Design I	3	MECH 445	Modern Manufacturing	3
	_			Processes	
ENGR 480	Lean Manufacturing	3	ART 131,	Fine Arts	3
	_		MUSIC 131 or		
			THEA 131		
MECH 435	Manufacturing Engineering	3	ECON 201	Microeconomics	3
HUM/FINE	Elective	3	PE 185	Lifetime Wellness	2
ARTS or					
SOC/BEH SCI					
	Semester Total: 18.0			Semester Total:	
Degree Total					

BS in Engineering Curriculum - MECH Concentration

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ABET Requirements (2015-2016 Cycle)

Total Math and Science Hours: 38 (includes statistics for engineers but not pre-calc)
Total Engineering Hours: 61 (includes engineering economics)

1 year Math and Science: minimum of 32 hours 1.5 years Engineering: minimum of 48 hours

1 year = minimum of 32 hours or 0.25 of total credit hours

BOLD-FACED FONT – designates a course taught by the School of Engineering

BLUE BOX – indicates a course taken by both MECH and CHPH concentration students