

Northwest Nazarene University
Bachelor of Science in Engineering – Mechanical Engineering Concentration
2021 Plan of Study (126 credits)

Fall				First year				Spring			
Course #	Cr	Course Title		Course #	Cr	Course Title		Course #	Cr	Course Title	
ENGR 1010	3	Intro to Engineering		ENGR 1050	3	Engineering CAD, Prototype					
MATH 2510	4	Calculus I		MATH 2520	4	Calculus II					
ENGR 1100	3	Engineering Software Skills		PHYS 2110	4	Physics I + Lab					
HUMN1010	1	Cornerstone		KINE	2	Wellness & Activity					
ENGL 1030	3	University Writing		BIBL 1100	3	Biblical Studies					
14				16							

Fall				Second year				Spring			
Course #	Cr	Course Title		Course #	Cr	Course Title		Course #	Cr	Course Title	
ENGR 2100	3	Statics		ENGR 2120	3	Dynamics					
ENGR 2200	4	Digital Systems + Lab		ENGR 2210	4	Electrical Circuits + Lab					
MATH 3540	4	Differential Equations		MATH 3530	4	Calculus III					
PHYS 2120	4	Physics II + Lab		ENGR 2310	1	Instrumentation & Msmt Lab					
	3	US History Elective		THEO 2100	3	Christian Theology					
18				15							

Fall				Third year				Spring			
Course #	Cr	Course Title		Course #	Cr	Course Title		Course #	Cr	Course Title	
ENGR 3400	4	Control Systems + Lab		ENGR 3410	3	Engineering Econ & Ethics					
PHYS 3500	3	Statistical Analysis for P&E		ENGR3110L	1	Materials & Thermo Lab					
ENGR 3100	3	Mechanics of Materials		ENGR 3110	3	Thermodynamics					
				ENGL	3	Literature Elective					
CHEM 2230	4	Chemistry for Engineer+Lab		ENGL 3015	3	Technical Writing					
ENGR 4140	3	Vibrations	OR Elective	ENGR 4110	3	Machine Design					
17				16							

Fall				Fourth year				Spring			
Course #	Cr	Course Title		Course #	Cr	Course Title		Course #	Cr	Course Title	
ENGR 4971	2	Senior Design Project I		ENGR 4972	2	Senior Design Project II					
	3	Art/Music Elective	Or Vibrations		3	Philosophy Elective					
COMM3211	3	Technical Communication			3	Non US History Elective					
ENGR 4130	4	Mechatronics & Lab			3	Bible/Theology Elective					
ENGR 4100	3	Fluid Mechanics		ENGR 4120	1	Fluids & Thermal Lab					
				ENGR 4150	3	Heat Transfer					
15				15							