

Northwest Nazarene University
Bachelor of Science in Engineering – Mechanical Engineering Concentration
2022-23 Plan of Study (126 credits)

Fall

Freshman year

Spring

Course #	Cr	Course Title	Days/Time/Instr	Course #	Cr	Course Title	Days/Time/Instr
ENGR 1010	3	Intro to Engineering	MWF 12:05 Parke	ENGR 1050	3	Engr CAD & Prototyping	MWF12:05 Bulanon
MATH 2510	4	Calculus I	MWF2:15	MATH 2520	4	Calculus II	MWF2:15
ENGR 1100	3	Engineering Software Skills	MW 6:30-8pm	PHYS 2110	3	Physics I	MWF9:05 Lawrence
				PHYS2110L	1	Physics I Lab	T 12 or 3 Allen
HUMN1020	1	Cornerstone			3	US History Elective	
ENGL 1030	3	University Writing		BIBL 1100	3	Biblical Studies	
14				17			

Fall

Sophomore year

Spring

Course #	Cr	Course Title	Days/Time/Instr	Course #	Cr	Course Title	Days/Time/Instr
ENGR 2100	3	Statics	MWF 1:10 Pratt	ENGR 3120	3	Dynamics	MWF2:15 Lawrence
ENGR 2200	3	Digital Systems	M 6-9pm	ENGR 2210	3	Electrical Circuits	MWF 1:10 Griffin
ENGR2200L	1	Digital Systems Lab	W 6-9pm	ENGR2210L	1	Electrical Circuits Lab	T 8 Griffin
MATH 3540	4	Differential Equations	MWF 9:05	MATH 3530	4	Calculus III	MWF 9:05
PHYS 2120	3	Physics II	MWF 8:00 Pearson	ENGR 2310	1	Instrumentation & Msmt Lab	R 12 or 3 Parke
PHYS2120L	1	Physics II Lab	T 12 or 3 Allen				
	2	Wellness + Activity		THEO 2100	3	Christian Theology	
17				15			

Fall

Junior year

Spring

Course #	Cr	Course Title	Days/Time/Instr	Course #	Cr	Course Title	Days/Time/Instr
ENGR 3400	3	Control Systems	MWF11:00 Bulanon	ENGR 3410	3	Engineering Econ & Ethics	MWF11:00 Parke/C
ENGR3400L	1	Control Systems Lab	T 8 Bulanon	ENGR3110L	1	Materials & Thermo Lab	T 12 Pratt
PHYS 3500	3	Statistical Analysis for P&E	MWF12:05 Pearson	ENGR 3110	3	Thermodynamics	MWF12:05 Pratt
ENGR 3100	3	Mechanics of Materials	MWF 8:00 Pratt		3	Literature Elective	
CHEM 2230	3	Chemistry for Engineers	MWF 9:05 Harris	ENGL 3015	3	Technical Writing	
CHEM2230L	1	Chemistry for Engineers Lab	R 12 Harris				
ENGR 4140	3	Vibrations	MWF 2:15 Pearson	ENGR 4110	3	Machine Design	MWF 2:15 Bulanon
17				16			

Fall

Senior year

Spring

Course #	Cr	Course Title	Days/Time/Instr	Course #	Cr	Course Title	Days/Time/Instr
ENGR 4971	2	Senior Design Project I	TR 1:40 Parke/Bul	ENGR 4972	2	Senior Design Project II	TF 1:40 Parke/Bul
COMM3211	3	Technical Communication	MWF 9:05 Allen		3	Philosophy Elective	
ENGR 4130	3	Mechatronics	MWF 1:10 Bulanon		3	Non US History Elective	
ENGR4130L	1	Mechatronics Lab	R 8 Bulanon		3	Bible/Theology Elective	
ENGR 4100	3	Fluid Mechanics	MWF 12:05 Pratt	ENGR 4120	1	Fluids & Thermal Lab	R 12 Pratt
	3	Art/Music Elective		ENGR 4150	3	Heat Transfer	MWF 9:00 Pratt
15				15			