Wheaton College - Northern Illinois University (NIU) Program Plan THIS PROGRAM PLAN IS FOR GUIDANCE ONLY. GRADUATION REQUIREMENTS ARE FOUND IN CATALOGS.

Engineering Major

General Education

Mechanical Engineering

		Fall Semester	
Sem	Code	Name	Hrs.
1	MATH 235	Calculus I	4
	PHYS 231	Introductory Physics I	4
	ENGR 101	Introduction to Engineering	1
	CORE 101	First Year Seminar	4
	CORE 131	Holistic Human Flourishing	1
	LANG	World Languages	4
		Total	18
3	MATH 237	Calculus III	4
	ENGR 211	Engineering Mechanics I - Statics	3
	ENGR 334	Computer Modeling of Physical Systems	2
	LANG	World Languages	4
	SELECT	Thematic Core (1 of 3)	4
		Total	17
5	ENGR 313	Mechanics of Materials	3
	CHEM 231	General Chemistry I	4
	CORE 3xx	Advanced Seminar (with 1 Thematic Core tag)	4
	SELECT	Thematic Core (2 of 3)	4
		Total	15
	- <u> </u>	years 1 - 3 credit hours =	98

		Spring Semester	
Sem	Code	Name	Hrs.
2	MATH 236	Calculus II	4
	PHYS 232	Introductory Physics II	4
	ENGR 132	Engineering Graphics and CAD	3
	COMM	Oral Communication (0-2)	2
	BITH	Old Testament Literature	4
·		Total	17
4	MATH 333	Differential Equations	4
	ENGR 212	Engineering Mechanics II - Dynamics	3
	ENGR 214	Innovative Design in Engineering (NIU Tech. Elective 1)	3
	BITH	New Testament Literature	4
	SELECT	Visual & Performing Arts (1 of 2)	2
		Total	16
. [ENGR 235	Materials Science for Engineering	3
6	ENGR 494	Engineering Ethics Capstone	2
	BITH	Christian Thought	4
	ып		4
	SELECT	Thematic Core (3 of 3)	4
	SELECT	Visual & Performing Arts (2 of 2)	2
		Total	15

All courses below this line are based on completion at NIU

	i otal	16
I E	Technical Elective 2	3 16
TE	Technical Elective 2	3
MEE 485	Senior Mechanical Engineering Design I	1
WEL 400	manufacturing	0
MEE 430	Computer aided design and	3
MEE 390	Experimental Methods in mechanical engineering I	3
	design	-
MEE 380	Computational methods in engineering	3
MEE 352	Heat transfer	3
	, otar	10
	Total	16
1012220		0
ISYE 220	Engineering Economy	3
ELE 210 & 210U	Engineering Circuit Analysis	4
MEE 340	Fluid Mechanics	3
MEE 321	Mechanical vibrations I	3
	Mechanism design and analysis	3

ars 4 - 5 credit hours = 57 TOTAL credit hours = 155

Dynamic systems and control I MEE 322 3 8 MEE 331 Manufacturing processes 3 **MEE 350 Engineering Thermodynamics** 3 MEE 383 **Engineering Analysis** 3 **MEE 470** Design of machine elements 3 Total 15 10 MEE 452 Design of thermal systems 3 MEE 486 Senior Mechanical Engineering Design II 3 **MEE 494** Mechanical engineering competency 1 TE **Technical Elective 3** 3 Fundamentals of Engineering (Passing is not required) Exam 10 Total

last updated 8/7/2024

