





National Park College

Associate of Science in Pre-Engineering (60 Credit Hours)

General Education Requirements (30 Credit Hours)

reshma	an English/	Writing (6 credit hours)	ATU equivalent	Hours	
ENG	1113	English Composition I AND	ENGL 1013 Composition I	3	
ENG	1123	English Composition II	ENGL 1023 Composition II	3	
Mather	matics (4 cr	edit hours)	ATU equivalent	Hours	
MATH		Calculus I	MATH 2914 Calculus I	4	
ah Seid	oncos /g cra	dit hours)	ATU equivalent	Hour	
CHEM			CHEM 2124 General Chemistry I	4	
PHYS	2114	Physics I for Majors	PHYS 2114 Calculus-Based Physics I	4	
				Harri	
		ties (6 credit hours)	ATU equivalent	Hours	
ART	1593	Art Appreciation OR	ART 2123 Experiencing Art	3	
MUS	1213	Music Appreciation	MUS 2003 Intro to Music	-	
ENG	2223	American Literature OR	ENGL 2013 Intro to American Literature	3	
ENG	2273	World Literature I	ENGL 2003 Intro to World Literature	.1	
		and die bourn	ATU equivalent	Hour	
		Macroeconomics OR	ECON 2003 Principles of Economics I	T	
ECON	2203		ECON 2003 Principles of Economics II	3	
ECON	2213	Microeconomics AND		-	
HIST	2223	United States History To 1865 OR	HIST 2003 United States History to 1877	3	
HIST	2233	United States History Since 1865 OR	HIST 2013 United States History since 1877		
POLS	1113	American National Government	POLS 2003 American Government		
S in B	ro Enginos	ring Required Courses (30 credit hours)	ATU equivalent		
EGR	1122	Introduction to Engineering	ELEG/MCEG 1011 Intro to Mech.		
LUN	1122	introduction to Engineering	Engineering	2	
			and GENL 1xx1 General Elective		
EGR	1143	Engineering Graphics	MCEG 1002 Engineering Graphics	2	
LOIN	1145	Engineering Grapines	and GENL 1xx1 General Elective	1	
EGR	2104	LO4 Electric Circuits I	ELEG 2103 Electric Circuits I		
LOIN	2104	Electric circuits	and GENL 2xx1 General Elective	4	
EGR	2113	Engineering Materials	MCEG 2023 Engineering Materials	3	
EGR	2123	Statics	MCEG 2013 Statistics		
EGR	2213	Dynamics	MCEG 2033 Dynamics		
MATH	2224	Calculus II	MATH 2924 Calculus II		
MATH	2254	Calculus III	MATH 2934 Calculus III	4	
VIAIN	2234	Calculus III	BUVG 2424 Coloulus Boood Dhysics II	1	

NPC Required Courses (0 Credit Hours)

Physics II for Majors

PHYS 2124 Calculus -Based Physics II

			ATU equivalent	Hours
ORT	1000	Student LMS Training	N/A	0
ORT	1100	NPC Orientation	N/A	0

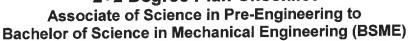
Total NPC Hours: 60

PHYS

2124



2+2 Degree Plan Checklist





Arkansas Tech University Bachelor of Science in Mechanical Engineering (BSME) 62 Hours

Arkansas Tech University Courses

trkansas Tect TECH	1001	Orientation to the University ¹	Waive
MCEG	2203	Computational Methods in Engineering	3
MCEG/ELEG	3003	System Modeling and Analysis	3
MCEG	3013	Mechanics of Materials	3
MATH	3243	Differential Equations I	3
ELEG	2113	Electric Circuits II	3
MCEG	3313	Thermodynamics I	3
MCEG	3413	Fundamentals of Mechanical Design	3
MCEG	MCEG 3442 Mechanical Laboratory I		2
MCEG/ELEG 4202 Engineering Design		Engineering Design	2
MCEG	4403	Mechanics of Fluids and Hydraulics	3
MCEG	4423	Machine Component Design	3
MCEG	4433 Thermodynamics II		3
MCEG			2
MCEG	4443 Heat Transfer		3
MCEG	ACEG 4491 Mechanical Design Project I		1
ELEG	EG 4303 Control Systems		3
MCEG	4492	Mechanical Design Project II	2
		3000-4000 level Engineering Electives ²	6
		4000 level Engineering Elective ³	3
		3000-4000 Engineering Lab Elective	2
		Math Elective ⁴	3
		Technical Elective ⁵	3

Total ATU Credit Hours: 62
Total Credit House: 122

Arkansas Tech University

National Park College

Dr. Adolfo Santos

Date

Dr. Chuck Argo

03/04/25

Date

Executive Vice President and Provost

Vice President for Academic Affairs

¹Waive Tech 1001.

²3000-level or above ELEG or MCEG laboratory class.

³4000-level or above ELEG or MCEG course with minimum of three (3) hours at the 4000-level and approval of advisor.

⁴Mathematics elective course to be chosen with approval of advisor from list of eligible courses maintained in the departmental office.

⁵Technical elective course to be chosen with approval of advisor from list of eligible courses maintained in the departmental office.