

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1	ENG26111	General English (1)	Required		4	College
	CI6101	Communication Skills	Required		2	Institution
	SLM6101	Introduction to Islamic Culture	Required		2	Institution
	CCS26101	Computer Skills	Required		2	Institution
	PHYS26114	General Physics			4	College
	ARB26101	Arabic Language Skills	Required		2	Institution
Level 2	ENG26114	General English (2)	Required	ENG26111	4	College
	PSY26101	Learning and Thinking Skills	Required		2	Institution
	SLM26102	Family & Community in Islam	Required		2	Institution
	CHM26113	General Chemistry	Required		4	College
	MATH26111	Calculus	Required		3	College
Level 3	ENG26121	English for Special Purposes	Required	ENG26114	4	College
	PHYS26211	Advanced Physics	Required	PHYS26114	3	College
	MATH26211	Differentiation and Integration (1)	Required	MATH26111	3	College
	MATH26212	Algebra and Analytical Geometry	Required		3	College
	ME26221	Engineering Drawing	Required		3	Program

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	ME26222	Production Technology and Workshops	Required		2	Program
Level 4	BUA26201	Volunteer Work	Required		1	Institution
	MATH26213	Differentiation and Integration (2)	Required	MATH26211	3	College
	CE26221	Engineering Mechanics	Required		3	Program
	EE26221	Introduction to Engineering Design	Required		2	Program
	EE26328	Electrical Engineering and Electronics	Required	PHYS26211	3	Program
	ME26223	Materials Science and Engineering	Required	PHYS26114	3	Program
	ME26231	CADD	Required	CHM26113	3	Program
Level 5	*****	University Elective	Elective		2	Institution
	MATH26314	Differential Equations	Required	MATH26213	3	College
	EE26324	Computer Programming	Required	MATH26212	3	Program
	IE26322	Engineering Statistics and Probability	Required	MATH26211	3	Program
	ME26334	Manufacturing Processes (1)	Required		3	Program
	ME26351	Measurement and Instrumentation	Required	EE26328	3	Program
Level 6	MATH26315	Numerical Analysis	Required	MATH26314	3	College
	ME26324	Mechanics of Materials	Required	CE26221	3	Program
	ME26332	Theory of Machines	Required	CE26221	3	Program
	ME26336	Manufacturing Processes (2)	Required	ME26334	2	Program
	ME26341	Engineering Thermodynamics (1)	Required	PHYS26211	3	Program
	ME26342	Fluid Mechanics (1)	Required		3	Program
Level 7	CE26471	Principles of Scientific Research in Engineering	Required		2	Program
	ME26433	Machines Elements design (1)	Required	ME26324	3	Program
	ME26443	Engineering Thermodynamics (2)	Required	ME26341	2	Program
	ME26444	Fluid Mechanics (2)	Required	ME26342	2	Program
	ME26452	Heat Transfer	Required	ME26342	3	Program
	ME26461	Systems Dynamics and Mechanical Vibration	Required	ME26332	3	Program
Level	IE26423	Engineering Economics	Required		2	Program

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8	ME26435	Machines Elements Design (2)	Required	ME26433	3	Program
	ME26445	Internal Combustion Engines	Required	ME26443	3	Program
	ME26453	Renewable Energy Engineering	Required		3	Program
	ME26471	Field training (1)	Required	Passing 110 credit hours	4	Program
Level 9	IE26524	Engineering Project Management	Required		2	Program
	IE26432	Engineering Reliability and Maintenance	Required	IE26322	2	Program
	IE26436	Safety Engineering	Required		2	Program
	ME26539	Advanced Manufacturing Processes	Required	ME26336	2	Program
	ME26562	Automatic Control	Required	ME26461	3	Program
	ME****	Elective Course (1)	Elective		2	Program
	ME26472	Field training (2)	Required	Passing 120 credit hours	4	Program
ME26573	Graduation Project (1)	Required	Passing 75% of the total credit hours	1	Program	
Level 10	BUA26202	Entrepreneurship	Required		1	Institution
	ME26538	CAD\CAM	Required	ME26435	3	Program
	ME26546	Refrigeration and Air-conditioning	Program	ME26436	3	Program
	ME26548	Power plants	Required	ME26452	3	Program
	ME****	Elective Course (2)	Program	ME26341	2	Program
	ME26574	Graduation Project (2)	Required	ME26443	3	Program

List of Elective Courses:

1- University Elective Course:

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 5	SLM26103	Economy in Islam	Elective	-	2	Institution
	SLM26104	Contemporary Issues	Elective	-	2	Institution
	ARB26102	Arabic Editing	Elective	-	2	Institution
	HIS26201	History of Kingdom of Saudi Arabia	Elective	-	2	Institution

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	HIS26211	Studies in Biography of the Prophet	Elective	-	2	Institution
	ENG26224	Writing for Specific Purpose	Elective	-	2	Institution
	MDS26201	Health and Fitness	Elective	-	2	Institution
	ED26201	Youth and the Values of Citizenship	Elective	-	2	Institution
	TEC26212	E-Learning Applications	Elective	-	2	Institution

2- Elective Courses -1, and -2:

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
	Elective Course -1					
Level 9	ME26525	Principles and Application of NDT	Elective	ME26223	2	Program
	ME26526	Tribology	Elective	ME26223	2	Program
	ME26527	Nanomaterials	Elective	ME26223	2	Program
	ME26537	Machine Tool Design	Elective	ME26435	2	Program
	Elective Course -2					
Level 10	ME26554	Industry and Environmental Pollution	Elective	-	2	Program
	ME26555	Desalination Stations	Elective	ME26452	2	Program
	ME26549	Gas Dynamics	Elective	ME26443	2	Program
	ME26563	CFD	Elective	ME26444	2	Program