



Total Credit Hours (160) Hrs.

First: University Requirements (27) Cr. Hr.
A. First Field: University Compulsory Requirements: (18) Cr. Hr.

Course No.	Course Title	Cr. Hrs	Prerequisite	Kind of Learning
115001	Military Science *	3	---	ONLINE
116101	National Education	3	---	ONLINE
116102	Entrepreneurship, Innovation, and Leadership skills	3	---	ONLINE
116103	Communication and Contact Skills (Arabic Language)	3	116099	Physical
116107	Communication and Contact Skills (English Language 1)	3	116098	Physical
116108	Communication and Contact Skills (English Language 2)	3	116107	Physical
116109	Voluntary Community Service	0	---	ONLINE

* Compulsory for Jordanian Students

B. University Elective Courses (9) Cr. Hr.

The student studies 9 credit hours from the table below:

Course No.	Course Title	Cr. Hr.	Prerequisite	Kind of Learning
116105	Thinking Skills	3	---	Blended
116106	Economic Culture	3	---	Blended
116111	Language Skills (1) (European or Eastern languages)	3	---	Blended
116112	Language Skills (2) (European or Eastern languages)	3	116111	Blended
116113	Language Skills (3) (European or Eastern languages)	3	116112	Blended
116114	Introduction to Project Management "For Non - Engineering Students"	3	---	Blended
116143	Legal Culture	3	---	Blended
216102	Data Analysis Skills "For Non-Engineering Students"	3	---	Blended
216104	Digital Culture	3	---	Blended

Notes: -

All students must take level examinations in Arabic Language, English language and Computer skills. Student who fails to pass in any examinations (less than 50 %) must successfully pass the remedial course which He /She did not pass.

Codes used in Curriculum:

610 Electrical Eng.
640 Mechanical Eng.
(640) Mechatronics Eng.

Second: Faculty Requirements: (24) Cr. Hr.

Course No.	Course Title	Cr.Hr.	Prerequisite	Kind of Learning
216111	Calculus (1)	3	---	Physical
260102	Calculus (2)	3	216111	Physical
216131	General Physics (1)	3	---	Physical
216132	General Physics (2)	3	216131	Blended
620130	Manual Engineering Drawing	1	---	Physical
620132	Computer Engineering Drawing	1	620130	Physical
620171	Engineering Workshop (1)	1	---	Physical
610283	Programming Language	3	216099	Blended
640253	Entrepreneurship Skills	3	116108	ONLINE
610550	Entrepreneurship	3	640253	ONLINE

Third: Department Requirements (109) Cr.Hrs.
A. Compulsory Requirements: (80) Cr.Hrs.

Course No.	Course Title	Cr.H	Prerequisite	Kind of Learning
610214	Electrical Engineering	3	216132	Physical
620211	Statics	3	216131	Blended
620212	Dynamics	3	620211	Blended
620213	Strength of materials	3	620211	Physical
620232	Mechanical Drawing	2	620132	Physical
620344	Engineering Measurements	3	610214	Blended
620274	Material Science	3	216141	ONLINE
620333	Theory of Machines	3	620212	Physical
620320	Fluid Mechanics (1)	3	216132	Blended
620323	Thermodynamics (1)	3	620323	Physical
620324	Thermodynamics (2)	3	620323	Physical
620428	Fluid Mechanics(2)	3	620320	Physical
620434	Machine Design (1)	3	620213	Physical
620435	Machine Design (2)	3	620434	Physical
620443	Automatic Control	3	620344	Physical
620420	Heat transfer (1)	3	620320 + 620324	Physical
620437	Reverse Engineering	3	620435	Blended
620436	Exercises in Machine Design	1	*620435	Physical
620477	Production Processes	3	620274+620172	Blended
620414	Mechanical vibrations	3	610260+620212	Physical
620529	Internal combustion engines	3	620324	Physical
620522	Air conditioning (1)	3	620420	Physical

Student Name: _____
Student No : _____
Academic Advisor: _____

B. Compulsory Support Requirements: (20) Cr. Hr.

Course No.	Course Title	Cr.Hr	Prerequisite	Kind of Learning
216141	General Chemistry (1)	3	---	Physical
216143	General Chemistry Lab.	1	216141	Physical
260202	Calculus (3)	3	250102	Physical
610262	Engineering Analysis (2) (Blended)	3	610260	Blended
620172	Engineering Workshop (2)	1	620171	Physical
620301	Applied Engineering mathematics	3	610260	Physical
620302	Finite Element Method	3	610262	Physical
610260	Engineering Analysis (1) (Blended)	3	250102	Blended

C. Elective Requirements: (9) Cr. Hr

Course No.	Course Title	Cr.Hrs	Prerequisite	Kind of Learning
620538	Computer aided design	3	620436	Blended
620449	Refrigeration Systems	3	620324	Blended
620528	Hydraulic Machines	3	620320	Blended
620530	Automotive Engineering	3	620333	Blended
620555	Special Topics in Mechanical Engineering	3	Dep. Approval	Blended
620426	Heat transfer (2)	3	620420	Blended

(*) Concurrent
(**) Seven weeks (280 hours) of Training after completing (115) Cr.Hrs.