

**School of Engineering Technology**

**Department of Mechanical Engineering**

**Technician Degree – Mechanical Engineering: 72 Credit Hours**

Specialization Pathways:

- General Mechanical Engineering

**Summary:**

Classification	Credit Hours		
	Compulsory	Elective	Total
University Requirements	12	0	12
School Requirements	12	0	12
HTU Department Requirements	10	0	10
HNC Department Requirements	32	0	32
Placement in Industry Requirements	6	0	6
Total	<b>72</b>	<b>0</b>	<b>72</b>

**0. English Language Prerequisites:**

Depending on the results of the English language Placement Test

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10301099	Foundation English Pre-Intermediate Intensive + Lab	4	8	1	Placement Test <30

**1. University Requirements: 12 Credit Hours**

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10301100	Foundation English Intermediate Intensive + Lab	4	8	1	Placement Test 30-42 or 10301099
10303101	Soft Skills I	2	0	2	
10302191	Science & Society Seminar I: Arab Contributions to Science and Arts	1	1	0	
	STEM Lab I	1	0	1	
	STEM Lab II	1	0	1	-
	Workshop I	2	0	2	
	Workshop II	1	0	1	-
	<b>Total</b>	<b>12</b>			

**2. School Requirements: 12 Credit Hours**

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
	Functional Math	3	3	0	-
	Functional Physics	3	3	0	-
	Fundamentals of Computing	4	3	1	-
	Introduction to Engineering Drawing	1	0	1	-
	Advanced workshop	1	0	2	-
	<b>Total</b>	<b>12</b>			

**3. Al-Hussein Technical University (HTU) Department Requirements: 10 Credit Hours**

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
	Heating, Ventilation and Air Conditioning (HVAC)	4	3	1	
	Electro, Pneumatics and Hydraulic Systems	4	3	1	
	Mechanical Lab I	1	0	1	
	Mechanical Lab II	1	0	1	
	<b>Total</b>	<b>10</b>			

**4. Higher National Certificate (HNC) Department Requirements: 32 Credit Hours**

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
	Engineering Math	4	3	1	
	Engineering Design	4	3	1	
	Engineering Science	4	3	1	
	Managing A Professional Engineering Project (Pearson - set)	4	3	1	
	Mechanical Principles	4	3	1	
	Materials, Properties and Testing	4	3	1	
	Fundamentals of Thermodynamics and Heat Engines	4	3	1	
	Fluid Mechanics	4	3	1	
	<b>Total</b>	<b>32</b>			

**5. Placement in Industry Requirements: 6 Credit hours**

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
	Practical Training	6	0	24	
	<b>Total</b>	<b>6</b>			