

**School of Construction Technology and Built Environment
Department of Civil Engineering**

Intermediate University Degree 1 - Technician: 72 Credit Hours

Specialization Pathways:

- Civil Engineering
- Surveying Engineering

Summary:

Classification	Credit Hours		
	Compulsory	Elective	Total
University Requirements	12	0	12
School Requirements	13	0	13
HTU Department Requirements	10	0	10
HNC Department Requirements	28	4	32
Placement in Industry Requirements	6	0	6
Total =	68	4	73

* Depending on the specialization pathway

Practical 2Hours: Labs, Workshops, Studios, Seminars, Tutorials, Training, Fieldwork, Boot Camps & Excursions.

1 Practical Hour = 2-3 contact hours.

0. English Language Prerequisites:

Course No.	Course Title	Cr. Hr.	Lecture	Practical	Prerequisite
10301099	Pre-Foundation English Intensive + Lab	4	8	1	Placement Test 0-29

1. University Requirements: (12 Credit Hours)

Course No.	Course Title	Cr. Hr.	Lecture	Practical	Prerequisite
10301100	Foundation English Pre-Intermediate Intensive + Lab	4	8	1	Placement Test 30-42 or 10301099
10301101	Soft Skills I	2	0	2	-
10303130	STEM Lab I	1	0	1	-
10303131	STEM Lab II	1	0	1	10303130
10101100	Workshop I	2	0	2	-
10101102	Workshop II	1	0	1	10101100
10302191	Science & Society Seminar I: Arab Contributions to Science and Arts	1	0	1	-
Total		12			

2. School Requirements: (13 Credit Hours)

Course No.	Course Title	Cr. Hr.	Lecture	Practical	Prerequisite
10303101	Functional Math	3	3	0	-
10303100	Functional Physics	3	3	0	-
10201100	Fundamentals of Computing	4	3	1	-
10400120	Construction Workshop	1	0	1	10101112
10401111	Introduction to Construction Information	2	0	2	-
Total		13			

3. Al-Hussein Technical University (HTU) Department Requirements (9 Credit Hours):

3.1. HTU Compulsory Requirements (9 Credit Hours):

* Depending on the specialization pathway:

1) Civil Engineering – 12 Credit Hours:

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10402141	Structural Mechanics	4	3	1	
10402201	Concrete Technology	4	3	1	
10402112	Civil Engineering Drawing	2	0	2	
Total		10			

2) *Surveying Engineering – 12 Credit Hours:*

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10402115	Geographic Information Systems	3	2	1	
10402117	Remote Sensing	2	1	1	
10402113	Principles of Photogrammetry	2	1	1	
10402116	Principles of Geodesy	3	2	1	
Total		10			

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

4.1. HNC Compulsory Requirements (28 Credit Hours)*:

* Depending on the specialization pathway:

4.1.1. Compulsory Core Units (12 Credit Hours):

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10402230	Individual Project (Civil) – Pearson Set	4	2	2	10401121
10401121	Construction Technology	4	3	1	10401111
10400151	Construction Practice & Management	4	3	1	10401111
Total		12			

4.1.2. Compulsory Specialist Units (12 Credit Hours):

Students should choose to study one of the following lists depending on the specialization pathway:

1) Civil Engineering Specialist Units:

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10303100	Science & Materials	4	3	1	10303100
10401112	Construction Information (Working Designs)	4	3	1	10401111
10402101	Mathematics for Construction	4	3	1	10303101
10402241	Principles of Structural Design	4	3	1	10402141
Total		16			

2) *Surveying Engineering Specialist Units - 12 Credit Hours:*

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10400251	Legal & Statutory Responsibilities in Construction	4	3	1	Construction Technology
10400101	Measurement & Estimating	4	3	1	Functional Math
10400152	Financial Management & Business Practices in Construction	4	3	1	Structural Mechanics
Total		12			

4.2. HNC Elective Requirements (Credit Hours)*:

* Students should choose to study 4 or 8 Credit Hours from the following list depending on the specialization pathway:

1) *Civil Engineering - 4 Credit Hours:*

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10402111	Surveying, Measuring & Setting Out	4	3	1	10401111
10400252	Tender & Procurement	4	3	1	10400151
10401221	Principles of Refurbishment	4	3	1	10401121
10409262	Principles of Public Health Engineering	4	3	1	-
10402221	Civil Engineering Technology	4	3	1	10401121
10400253	Site Supervision & Operations	4	3	1	10400151
Total Taken		4			

2) *Surveying Engineering - 8 Credit Hours:*

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10402111	Surveying, Measuring & Setting Out	4	3	1	10401111
10400252	Tender & Procurement	4	3	1	10400151
10401221	Principles of Refurbishment	4	3	1	10401121
10409262	Principles of Public Health Engineering	4	3	1	-
10402221	Civil Engineering Technology	4	3	1	10401121
10400253	Site Supervision & Operations	4	3	1	10400151
10402111	Surveying, Measuring & Setting Out	4	3	1	10401111
Total Taken		8			

5. Placement in Industry Requirements (6 Credit hours)

Course No.	Course Title	Cr. Hr.	Lecture	Practical	Prerequisite
10400990	On job training	6	4		
Total		6			

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1) *Civil Engineering*

Study Plan Guide:

<i>First Year - Fall Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
10301100	Foundation English Pre-Intermediate Intensive +Lab	4	Placement Test 30-42
10303101	Functional Math	3	-
10303100	Functional Physics	3	-
10303130	STEM Lab I	1	-
10301101	Soft Skills I	2	-
10101100	Workshop I	2	-
10401111	Introduction to Construction Information	2	-
10302191	Science & Society Seminar I: Arab Contributions to Science and Arts	1	
	Counseling	0	-
	Total	19	
<i>First Year - Spring Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
10402141	Structural Mechanics	4	10303100
10201100	Fundamentals of Computing	4	-
HNC	Construction Technology	4	
HNC	Science & Materials	4	
10402112	Civil Engineering Drawing	2	
10101102	Workshop II	1	10101100
10303131	STEM Lab II	1	10303130
	Total	20	
<i>First Year - Summer Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
HNC	Construction Practice & Management	4	
HNC	Construction Information (Working Designs)	4	
HNC	Mathematics for construction	4	
	Total	12	

<i>Second Year - Fall Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
HNC	Principles of Structural Design	4	
10402201	Concrete Technology	4	
HNC	HNC ELECTIVE	4	
HNC	Individual Project – Pearson Set	4	
	Total	16	

<i>Second Year - Spring Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
10402990	On-Job Training	6	
	Total	6	

2) *Surveying Engineering*

Study Plan Guide:

<i>First Year - Fall Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
10301100	Foundation English Pre-Intermediate Intensive +Lab	4	Placement Test 30-42
10303101	Functional Math	3	-
10303100	Functional Physics	3	-
10303130	STEM Lab I	1	-
10301101	Soft Skills I	2	-
10101100	Workshop I	2	-
10401111	Introduction to Construction Information	2	-
10302191	Science & Society Seminar I: Arab Contributions to Science and Arts	1	
	Counseling	0	-
	Total	19	

<i>First Year - Spring Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
HNC	Measurement & Estimating	4	
10201100	Fundamentals of Computing	4	-
HNC	Construction Technology	4	
HNC	HNC Elective (Surveying, Measuring & Setting Out)	4	
10101102	Workshop II	1	
10303131	STEM II	1	
	Total	18	

<i>First Year - Summer Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
HNC	Construction Practice & Management	4	
10402113	Principles of Photogrammetry	2	
HNC	Legal & Statutory Responsibilities in Construction	4	
	Total	10	

<i>Second Year - Fall Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
HNC	Individual Project – Pearson Set	4	
HNC	HNC Elective (Science & Materials)	4	
10402115	Geographic Information Systems	3	
10402117	Remote Sensing	2	
HNC	Financial Management & Business Practices in Construction	4	
10402116	Principles of Geodesy	3	
	Total	20	

<i>Second Year - Spring Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
10402990	On-Job Training	6	
	Total	6	