

School of Computing and Informatics

Department of Computer Science

Technician Certificate – Computer Science: (72) Credit Hours

T: Theoretical Class

P: Practical Class

C: Contact Hours

Summary:

Classification	Credit Hours		
	Compulsory	Elective	Total
University Requirements	11	0	11
Faculty Requirements	31	12	43
Placement in Industry Requirements	18	0	18
Total (Technical degree)	60	12	72

0. English Language Prerequisites:

Depending on the results of the English language Placement Test

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

1. University Requirements (Technician Certificate): 11 Credit Hours

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

1 Practical Hour = 2-3 contact hour

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Contact Hours	Prerequisite
OR 10301100	Foundation English Pre-Intermediate Intensive + Lab	4	8	1	10	Placement Test 30-42
10301101	Soft Skills I	2	0	2	4	-
10302191	Science & Society Seminar I: Arab Contributions to Science and Arts	1	0	1	2	-
10303130	STEM Lab I	1	0	1	3	-
10101100	Workshop I	2	0	2	6	-
	Workshop II	1	0	1	3	10101100
Total		11				

2. Faculty Requirements: (31 Credit Hours)

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Contact Hours	Prerequisite
10303100	Functional Math	3	3	0	3	-
10303110	Functional Physics	3	3	0	3	-
10200100	Fundamentals of Computing	4	3	1	5	-
10200101	Programming	3	2	1	4	10200100
10200110	Networking	3	2	1	4	10200100
10200120	Database Design & Development	3	2	1	4	10200100
10200140	Security	3	2	1	4	
10200190	Managing a Successful Computing Project (Pearson Set)	3	2	1	4	-
10200191	Professional Practice	3	2	1	4	
10200170	Computer Systems Architecture	3	2	1	4	10200100
Total		31				

3. Faculty Electives: (12 Credit Hours from the following)

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Contact Hours	Prerequisite
10200180	Math for Computing	3	3	0	3	
10200121	Website Design & Development	3	2	1	4	10200100
10200122	Software Development Lifecycle	3	2	1	4	10200100
10200130	Data Analytics*	3	2	1	4	10200100
10200131	Strategic Information Systems	3	2	1	4	10200100
10200230	Business Intelligence	3	2	1	4	10200130
Total Taken		12				

4. Placement in Industry Requirements

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Contact Hours	Prerequisite
	On-Job Training	18	0	40	40	Obtain at least one certificate

English Language Prerequisites:

Depending on the results of the English language Placement Test

Course No.	Course Title	Cr. hr.	Prerequisite
10301099	Pre-Foundation English Intensive + Lab	4	Placement Test 0-29

Study Plan Guide:

<i>First Year - Fall Semester (for all pathways)</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
10301100	Foundation English Pre-Intermediate Intensive +Lab	4	Placement Test 30-42
OR 10301110	Foundation English Intermediate Intensive + Lab		Placement Test 43-58
10301100	Functional Math	3	-
10200100	Fundamentals of Computing	4	-
10303130	STEM Lab I	1	-
10301101	Soft Skills I	2	-
10101100	Workshop I	2	-
Total		16	

<i>First Year - Spring Semester (for all pathways)</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
10200101	Programming	3	10200100
10200110	Networking	3	10200100
10200170	Computer Systems Architecture*	3	
10200140	Security	3	10200100
10200180	Faculty Elective (Math for Computing)	3	10301100
Total		15	

<i>First Year - Summer Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
10200290	Managing a Successful Computing Project (Pearson Set)	3	
10200120	Database design and development	3	10200100
	Faculty Elective	3	
Total		9	

Technician Certificate

<i>Second Year - Fall Semester</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
10200191	Professional Practice	3	10301101
10303110	Functional Physics	3	-
10302191	Science & Society Seminar I	1	-
	Faculty Elective	3	
	Faculty Elective	3	
	Workshop II	1	
	Total	15	

<i>Second Year - Spring Semesters</i>			
Course No.	Course Title	Cr. hr.	Prerequisite
10200399	On-Job Training	18	
	Total	18	