



Yarmouk University
Faculty of Information Technology and
Computer Sciences

Department of Computer Information
Systems

Study plan for Mater Program in
Computer Information Systems

Thesis Track

2017



First: Admission Requirements

Applicants to the Master program in Computer Information Systems must:

1. Hold a Bachelor degree in any of the majors of Information Technology, Computer Science, or Computer Engineering. It is possible also to consider applicants from other disciplines related to information technology.
2. Pass the language requirement to join the program according to Yarmouk University regulations
3. Fulfil any other requirements that are required by Yarmouk University Councils and Committee.

Second: Maser degree in computer information systems/thesis track is awarded after the completion of the following requirements:

1. Fulfillment of the M.Sc. awarding regulations No. (3) for the year 2011.
2. Completion of the remedial and / or prerequisite courses recommended by the Graduate Study Committee in the department.
3. Passing at least 24 credit hours of the 600 level courses (with a minimum GPA of 75%) as follows:

A. Compulsory courses (24 credits) as follows:

#	Course Code	Course Name	Credit Hours
1	CIS 601	Research Methodology	3
2	CIS 641	Advanced Software Engineering	3
3	CIS 667	Advanced Data Mining	3
4	CIS 660	Data Science	3
5	CIS 687	Advanced Data Security and Privacy	3

B. Elective courses for a total of (9) credits selected from the following groups of courses, of which (6) credits must be selected from one group and (3) credits must be selected from the another group:

Group I. Elective Courses in Data Science

#	Course Code	Course Name	Credit Hours
1	CIS 662	Advanced Database Systems	3
2	CIS 668	Advanced data warehousing	3
3	CIS 669	Big Data Management	3
4	CIS 665	Practical Data Analytics	3
5	MIS 682	Business Intelligence and Analytics	3

Group II. Elective Courses in Software Engineering

#	Course Code	Course Name	Credit Hours
1	CIS 642	Software Modeling and Design	3
2	CIS 643	Requirement Engineering	3
3	CIS 644	Software Testing and Performance Assessment	3
4	CIS 648	Software Maintenance and Re-engineering	3
5	CIS 646	Aspect Orientation	3
6	CIS 647	Software Reuse	3

Group III. Elective Courses in Other CIS areas

#	Course Code	Course Name	Credit Hours
1	CIS 683	Web Technology	3
2	CIS 666	Web-Based Information Retrieval Systems	3
3	CIS 633	Advanced Distributed Systems	3
4	CIS 685	Internet of Things: Multimedia Technology	3
5	CIS 686	Social Network Analysis	3
6	CIS 691	Special Topics in Information Systems	3

4. Successfully defending a 9-credit master thesis that complies with the University guidelines. For the registration purposes, Master's Thesis is accredited as follows:

Course Code	Course Name	Credit Hours
CIS 699 A	Master's Thesis	0
CIS 699 B	Master's Thesis	3
CIS 699 C	Master's Thesis	6
CIS 699 D	Master's Thesis	9