



**Department of Information Management at Chang Gung University**

**List of Required Courses (Academic Year 2018. Sept.~)**

<b>Elective Courses</b>	<b>Information Management Field</b>	Industry Practice Project									3	
		Communication and Presentation Skills			2							
		Introduction to Design			3							
		Marketing Management				3						
		Production and Operations Management				3						
		Applied Statistics			3							
		Internet Marketing						3				
		Electronic Commerce						3				
		Financial Management							3			
		Accounting Information System							3			
		Management Science							3			
		Project Management									3	
		Customer Relationship Management									3	
		Practice in Healthcare Information Management (I)									2	
		Knowledge Management										3
	Enterprise Resource Planning										3	
	Practice in Healthcare Information Management (II)										2	
	<b>Information Technology Field</b>	Cross-platform Application Programming		3								
		C Language Programming		3								
		Object-Oriented Programming			3							
Java web Component Development				3								
Mobile Device Application Programming					3							
Windows Programming							3					
Database Programming							3					
Web Applications Development (II)							3					
Java Business Component Management and Development							3					
Operating System								3				
<b>Information Security Field</b>	Systems Analysis & Design (II)							3				
	Introduction to Information Security			3								
	Fundamental Mathematics of Information Security						3					
	Information Security Experiments						1					
	Medical Information System Security						3					

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<b>Security Field</b>	Network Security								3	
	Information System Auditing and Management									3
	Network Attack and Defense Techniques and Applications									3
	Digital Forensics									3
<b>Internet of Things Field</b>	Introduction to Internet of Things			3						
	Introduction to Industrial Applications in Intelligent Life			2						
	Logistics and Supply Chain Management						3			
	Information Systems for Internet of Things							3		
	Cloud Computing							3		
	Case study on IoT industrial creative applications								3	
	Systems Design for Supply Chain Management								3	
	Norms of Logistics Information Security									3
<b>Data Science Field</b>	Introduction to Big Data		3							
	Big Data Case Analysis in Industries			3						
	Hadoop Overview and Architecture				3					
	High performance Big Data database						3			
	Big Data Analytical Methods							3		
	Big Data Processing and Analytical Techniques								3	
	Practical Project (I) in Big Data								3	
	Application of Semantics Analysis									3
	Practical Project (II) in Big Data									3
	<b>Robotic Applications Field</b>	Introduction to Intelligent Robotics				3				
Project of Maker in IT Application						3				
Intelligent Robotics and Applications						3				
Open Source Technologies and Applications						3				
Programming of Interactive Robotics							3			
Practical Projects of Intelligent Robotics									3	
<b>Remark</b>	<p>1. Students are required to undertake University Compulsory and General Education courses (28), Department Compulsory courses (55), and Elective courses (45, at least 33 credits of Department Elective courses), making 128 credits in total for</p> <p>2. Please refer to Chang Gung University Common Required Course List for General Education courses information and regulation</p> <p>3. Prerequisites Courses:</p> <p>(1) Prerequisite course of Computer Programming (II) is Computer Programming (I).</p> <p>(2) Prerequisite course of Statistics (II) is Statistics (I).</p> <p>(3) Prerequisite course of Web Applications Development (I) is Web Applications Development (I).</p> <p>(4) Prerequisite course of Database Programming is Database Management.</p>									