

Sub.	Course Description – توصيف مقرر دراسي	الموضوع	 كلية المعرفة ALMAAREFA COLLEGE
Date		التاريخ	

Course Code & No	Comp112	112 حاسب	رقم المقرر ورمزه
Course Name	Computer Programming-II	برمجة الحاسبات -2	اسم المقرر
Credit Hours	3 (2 + 1 + 0)	(0 + 1 + 2) 3	عدد الساعات المعتمدة
Pre-requisite	Comp111	111 حاسب	المتطلب السابق

General Description	توصيف عام
<p>Java Programming II (COMP112) course continues the coverage of Object Oriented Programming topics such packages, Arrays, classes inheritance and composition, enumeration, polymorphism, interfaces, error handling with view exceptions and file handling techniques. students will contemplate medium scale programing problems that emphasize the use of these concepts.</p>	

Course Objectives	أهداف المقرر
<ul style="list-style-type: none"> • Outline advanced topics in object oriented concepts and techniques. • Write applications in object-oriented (OO) concepts using OO programming language such as Java. • Analyze Problems using UML Class Diagrams. • Design and develop programs for Problems using an object oriented programming language. • Demonstrate the ability to work within a programming team • Show adequate level of object oriented programming skills. 	

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Course Outlines	مفردات المقرر
<ul style="list-style-type: none"> • Overview of OOP concept • Relationships between classes Using UML • Object-Oriented Programming: Inheritance • Object-Oriented Programming: Polymorphism & Interfaces • Exception Handling • File Input and Output • Generics • Graphical User Interface Components • Strings Characters and regular expressions • Files streaming and object serialization 	

References	المراجع
Intro to Java Programming, Comprehensive Version (10th Edition), Jan 6, 2014, Y. Daniel Liang Java How to Program (early objects), 9th Edition, Paul Deitel, Deitel & Associates, Inc. Harvey Deitel, 2012	