

Sub.	Course Description – توصيف مقرر دراسي	الموضوع	 كليات المعرفة ALMAAREFA COLLEGES
Date	11/2/2015	التاريخ	

Course Code & No	Biol 101	حين ١٠١	رقم المقرر ورمزه
Course Name	General Biology	احياء عامة	اسم المقرر
Credit Hours	٤ (٣ + ١ + ٠)	٤ (٣ + ١ + ٠)	عدد الساعات المعتمدة
Pre-requisite	None	لا يوجد	المتطلب السابق

General Description	توصيف عام
<p>This course covers the fundamental principles and concepts of biology with emphasis on structure and function at the molecular and cellular levels. Topics include: cell structure and function, cellular respiration, metabolism, genetics, molecular biology and an introductory to the body system. Much of laboratory is devoted to a detailed study of the cell divisions, histology, anatomy and physiology of body systems e.g. respiratory, cardiovascular, digestive, urinary and genital system.</p>	

Course Objectives	أهداف المقرر
<ol style="list-style-type: none"> 1. The ability to understand and use the most important biological terms. 2. The ability to describe the construction and list the functions of cell molecules which include carbohydrates, lipids, proteins and nucleic acids. 3. The ability to recognize sub-cellular organelles and describe their function. 4. The ability to distinguish between anabolic and catabolic reactions. 5. The ability to discuss the roles of enzymes. 6. The ability to describe the processes of 	

Sub.	Course Description – توصيف مقرر دراسي	الموضوع	 كليات المعرفة ALMAAREFA COLLEGES
Date	11/2/2015	التاريخ	

<p>cellular respiration.</p> <p>7. The ability to understand the molecular as well as the chromosomal basis of inheritance.</p> <p>8. The ability to describe the roles and the differences between mitosis and meiosis divisions.</p> <p>9. The ability to understand the process of mammalian reproduction.</p> <p>10. The ability to describe the chemical signals and their mode of action.</p> <p>11. The ability to understand the function of endocrine and nervous systems.</p>	
---	--

Course Outlines	مفردات المقرر
<p>1.The chemical context of life</p> <p>2. Carbon and molecular diversity of life</p> <p>3. The structure and function of macromolecules</p> <p>4. Water and fitness to environment.</p> <p>5. Cell structure and function</p> <p>6. Membrane structure and function.</p> <p>7. An introduction to metabolism and Enzymes.</p> <p>8. Cellular respiration.</p> <p>9. Mitosis</p> <p>10. Meiosis</p> <p>11. Mendel and the gene idea</p> <p>12. Chromosomal basis of inheritance</p> <p>13. Molecular basis of inheritance</p> <p>14. From gene to protein</p> <p>15. Chemical signals in animals (Endocrine System)</p> <p>16. Animal reproduction</p> <p>17. Nervous system</p>	

Sub.	Course Description – توصيف مقرر دراسي	الموضوع	 كليات المعرفة ALMAAREFA COLLEGES
Date	11/2/2015	التاريخ	

References	المراجع
<p>* Campbell N.A., Reece J.B. and Mitchell L.G. Biology. Fifth Edition. Benjamin Cummings Company, Inc. ISBN 0-8053-6573-7.</p> <p>Parsons J., Oja D., Carey J., Carey P.</p> <p>* Karp G. Cell and Molecular Biology 2nd Edition, 1999. John Wiley and Sons, Inc.</p> <p>* Brun, G., McKane, L. and Karp, G. Biology. Latest Edition. John Wiley and Sons, Inc</p> <p>* Michael Johnson. Human Biology: Concepts and Current Issues. 2nd Edition. Nov. 2002.</p>	