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| Hashemite University | logo-changes copy **Course Syllabus** | General Biology (1)(110104101)3 Credit Hours |
| Faculty of Science | Pre-requisite:  |
| Department of Biology and Biotechnology | First Semester 2012/2013 |

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| Course Information |
|  | Lecture's Time |
|  | Lecture Room |
| **Rajaa Abueideh**  | Instructor |
| **www.staff.hu.edu.jo/rajaa** | Internet Home Page |
| Room No. 103 bio. Build. Or at the Herbarium lab. | Office Location |
|  | Office Hours |
| **Text Book :** Title: Biology Author: Sylvia S. Mader Publisher: Mc Graw Hill. Year :2013 Eleventh edition |
| \* BiologyAuthor(s):N. A. Campbell and J. B. Reece.Publisher: Benjamin Cummings, San Francisco.\* Any other book in General Biology | **References(s)**  |

**Grading Policy:**

 **Theory**

1st Exam 25% or 20%

2nd Exam 25% 20%

 Other - 10%

 Final Exam 50% 50%

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| **Course Objectives** |
| To provide students with basic knowledge of the concepts and themes of the study of life* To present the students with an overview of biology to be able to analyze the basic concepts behind the major themes of biology.
* To understand the current state of knowledge of a number of areas in biology including chemistry of organic molecules, cell biology, energy transfer and genetics.
* To gain basic information about the structure and organization of flowering plants, nutrition and transport in plants
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| **Teaching and Learning Methods** |
| 1. Theory classes2. Website www.mhhe.com / maderbiology11 |

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| **Course Contents**

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| **Week** | **Topic** | **Chapter in Text** |
| **1** |  View of Life | 1 |
| **2** | View of LifeThe Chemistry of Organic Molecules | 13 |
| **3** | The Chemistry of Organic Molecules | 3 |
| **4** | Cell Structure and Function | 4 |
| **5** | Cell Structure and FunctionMembrane Structure and Function | 45 |
| **6** | Membrane Structure and FunctionMetabolism: Energy and Enzymes**First Exam** | 56 |
| **7** | **Al Adha Vacation**Metabolism: Energy and Enzymes | 6 |
| **8** | Metabolism: Energy and EnzymesPhotosynthesis | 67 |
| **9** | PhotosynthesisCellular Respiration | 78 |
| **10** | Cellular RespirationThe Cell Cycle and Cellular Reproduction | 89 |
| **11** | The Cell Cycle and Cellular ReproductionMeioses and Sexual Reproduction | 910 |
| **12** | Molecular Biology of The Gene**Second Exam** | 12 |
| **13** | Molecular Biology of The Gene | 12 |
| **14** | Flowering plants : Structure and Organization | 24 |
| **15** | **Final Exam** |  |

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**Participation and Exams:**

**Attendance** is absolutely mandatory. Students who miss 6 class sessions (15%) without a compelling excuse will be dismissed.

**Exams:** The TWO periodic exams and the FINAL exam will cover material presented in class as well as information from the textbook.

There will be **NO make-ups** for unexcused missed exams, those who miss one lecture examination that can be document and that are considered a valid excuse by the instructor, should talk to their instructor BEFORE the exam and arrangements may be scheduled.