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| **Benha University** **Faculty of Science****جامعة بنهاDepartment of Zoology**  |
| **Course Specification**400 Z: Research and essay |
| **A- Affiliation** |
| **Relevant program:** | Zoology & chemistry B.Sc. Program |
| **Department offering the program:** | Department of Zoology |
| **Department offering the course:** | Department of Zoology |
| **Academic year/level:**  | fourth level |
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| B - Basic information |
| **Title:** Research and essay | **Code:** 400 Z | **Year/level:** fourth level  |
| **Teaching Hours:** | **Lectures:** 2 | **Tutorial:** 0 |
|  | **Practical:** 0 | **Total:** 2 h/week |
| C - Professional information |
| **1 – Course Learning Objectives:** |
| At the end of this course the students will be able to:1.1. Selected topics of certain subject in zoology. 1.2. Acquire the student the basic information of getting data on a certain subject in zoology. 1.3. Acquire the student the skills of making literature survey. 1.4. Acquire the student the skills of writing an essay under supervision.  |

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| **2 - Intended Learning Outcomes (ILOS)** |
| **a - Knowledge and understanding:**On successful completion of the course, the student should be: a1- understand a certain subject in zoology. a2- acquire the skills of writing an essay.  |
| **b - Intellectual skills:**On successful completion of the course, the student should be able to. b1-  Interpret a piece of information in the light of evidence provided by zoology. b2- Analyze qualitative and quantitative scientific data relevant to various subjects of zoology. b3- Breakdown, synthesize, reconstruct and reformulate information. b4- Combine knowledge gained from different sources. |
| **c- Practical and professional skills:**On successful completion of the course, the student should be able to: c1- differentiate available tools to solve a problem or to collect data. c2- investigate certain subject.  c3- differentiate the basic units of the research including the introduction, material and methods, results, discussions and references |
| **d - General skills:**On successful completion of the course, the student should be able to:

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| d.1 | Use computers and internet for communication, data handling and word processing. |
| d.2 | Solve problems on scientific basis. |
| d.3 | Effectively manage tasks, time, and resources. |
| d.4 | Search for information and engage in life-long self learning discipline. |
| d.5 | Help raising public awareness of the benefits of conserving intellectual property rights and scientific patents on the individuals and communities. |

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| **3 - Contents** |
| **Topic** | **Lecture hours** | **Tutorial hours** | **Practical hours** |
|  How to get information from the classical library How to get information from electronic sources How to write an essay from the collected information on a subject | 2 | 0 | 0 |
| **Total hours** | **24** | 0 | **0** |

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| **4 - Teaching and Learning methods:** |

4 .1. Small groups' office lectures.

4 .2. Discussions.

4 .3. Using information technology.

4.5. Visiting Libraries.

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| **5- Students’ Assessment Methods and Grading:** |

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| **Tools** | **Grading** |
| Discussion and oral exam | 50 % |
| Essay | 50 % |
| Total | 100 % |

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| **6- List of references:** |
| **6-1 Course notes**Non**6-2 Required books** According to the selected subjects.**6-3 Recommended books**According to point of search. **6-4 Periodicals, Web sites, etc.** [www.google.com](http://www.google.com) www.sciencedirect.com |

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| **7- Facilities required for teaching and learning:** |
| Faculty library.  |

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| **Course coordinator:** |  |  |
| **Head of the Department:** | Prof. Dr. Aziza A.M. El-Shafey |  |
| **Date:** | 2013 / 2014 |  |