

## Master Syllabus

### BIO 2222 - Evolution

**Division:** Science, Mathematics and Engineering

**Department:** Biology

**Credit Hour Total:** 3.0

**Lecture Hrs:** 3.0

**Date Revised:** July 2014

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### Course Description:

Emphasis on Charles Darwin, speciation, fossils, radiometric dating, natural selection, mutations, macroevolution, mass extinctions, coevolution, sexual reproduction, human evolution and religious issues.

### General Education Outcomes:

- ❑ Oral Communication Competency
- ❑ Written Communication Competency
- ❑ Critical Thinking/Problem Solving Competency
- ❑ Computer Literacy Competency
- ❑ Information Literacy Competency

### Course Outcomes:

#### Descent with Modification

Recognize that all organisms including humans have descended with modifications from ancestors through an unbroken chain of reproductive continuity extending back four billion years.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Accumulate a minimum total of 60% of all available points in the course for quizzes and tests.

#### Humans as Responsible Stewards of the Earth

Discuss the role of humans in the sustainability of the Earth's resources.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Accumulate a minimum total of 60% of the available points in the course for quizzes and tests.

#### Natural Selection

Explain how Charles Darwin's theory of natural selection has played a pivotal role in the evolution of life.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Accumulate a minimum total of 60% of the available points in the course for quizzes and tests.

### Outline:

Charles Darwin Speciation Fossils Radiometric dating Natural selection Mutations Macroevolution Mass extinctions Coevolution Sexual reproduction Human evolution Religious issues