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| **PROFESSOR:** | **PHONE NUMBER:** |
| **OFFICE LOCATION:** | **E-MAIL:** |
| **OFFICE HOURS:** | **SEMESTER:** |

1. **COURSE NUMBER AND TITLE, CATALOG DESCRIPTION, CREDITS:**

**BSC 1011 BIOLOGICAL SCIENCE II (3 CREDITS)**

This course builds on the cell biology presented in BSC 1010 and examines the mechanisms of genetic change in populations, the adaptation of living things to their environment, the concept of niche and the processes leading to biodiversity, population growth and regulation, energy flow and biogeochemical cycling in the biosphere, and interactions of creatures with the living and non-living components of their ecosystems.

1. **PREREQUISITES FOR THIS COURSE:**

{BSC 1010 and BSC 1010L} with a grade of “C” or better

**CO-REQUISITES FOR THIS COURSE:**

BSC 1011L

1. **GENERAL COURSE INFORMATION:** Topic Outline.

* The history of evolutionary theory and the scientific evidence supporting the theory of evolution

• The processes involved in micro- and macro-evolutions including gradualism and punctuated evolution

• The classification of organisms and its evolutionary significance

• The geographical distribution of organisms, the regional diversity of organisms and their evolutionary significance

• Adaptations of organisms in aquatic and terrestrial environments

• Behavior of living organisms

• Ecology of populations and communities

• Ecosystems and biomes

1. **All courses at Florida SouthWestern State College contribute to the general education program by meeting one or more of the following general education competencies:**

**C**ommunicate clearly in a variety of modes and media.

**R**esearch and examine academic and non-academic information, resources, and evidence.

**E**valuate and utilize mathematical principles, technology, scientific and quantitative data.

**A**nalyze and create individual and collaborative works of art, literature, and performance.

**T**hink critically about questions to yield meaning and value.

**I**nvestigate and engage in the transdisciplinary applications of research, learning, and knowledge.

**V**isualize and engage the world from different historical, social, religious, and cultural approaches.

**E**ngage meanings of active citizenship in one’s community, nation, and the world.

**A.**  **General Education Competencies and Course Outcomes**

1. Listed here are the course outcomes/objectives assessed in this course which play an integral part in contributing to the student’s general education along with the general education competency it supports.

General Education Competency: **Investigate**

Course Outcomes or Objectives Supporting the General Education Competency Selected:

* Describe and appraise the historical development of the evolutionary theory.
* Analyze and evaluate the role of the evolutionary theory in uniting the various disciplines of biology into a unified system of knowledge.
* Analyze and appraise the fossil, biogeographic, and genetic evidence that supports the theory of evolution.
* Explain allopatric and sympatric modes of speciation.
* Analyze and appraise the nutritional and metabolic diversity, adaptations, and patterns of embryonic development of organisms found in the different kingdoms.
* Compare the interplay between innate behavior and learned behavior.
* Analyze and appraise the similarities and differences between and among the major ecosystems and biomes.
* Analyze and interpret the structure of ecosystems.
* Illustrate how energy flows and matter cycles in different ecosystems.

1. **DISTRICT-WIDE POLICIES:**

**Programs for Students with Disabilities**

Florida SouthWestern State College, in accordance with the Americans with Disabilities Act and the College’s guiding principles, offers students with documented disabilities programs to equalize access to the educational process. Students needing to request an accommodation in this class due to a disability, or who suspect that their academic performance is affected by a disability should contact the Office of Adaptive Services at the nearest campus. The office locations and telephone numbers for the Office of Adaptive Services at each campus can be found at <http://www.fsw.edu/adaptiveservices>.

**REPORTING TITLE IX VIOLATIONS**

Florida SouthWestern State College, in accordance with Title IX and the Violence Against Women Act, has established a set of procedures for reporting and investigating Title IX violations including sexual misconduct.  Students who need to report an incident or need to receive support regarding an incident should contact the Equity Officer at [equity@fsw.edu](mailto:equity@fsw.edu).  Incoming students are encouraged to participate in the Sexual Violence Prevention training offered online.  Additional information and resources can be found on the College’s website at <http://www.fsw.edu/sexualassault>.

1. **REQUIREMENTS FOR THE STUDENTS:**

List specific course assessments such as class participation, tests, homework assignments, make-up procedures, etc.

1. **ATTENDANCE POLICY:**

The professor’s specific policy concerning absence. (The College policy on attendance is in the Catalog, and defers to the professor.)

1. **GRADING POLICY:**

Include numerical ranges for letter grades; the following is a range commonly used by many faculty:

90 - 100 = A

80 - 89 = B

70 - 79 = C

60 - 69 = D

Below 60 = F

(Note: The “incomplete” grade [“I”] should be given only when unusual circumstances warrant. An “incomplete” is not a substitute for a “D,” “F,” or “W.” Refer to the policy on “incomplete grades.)

1. **REQUIRED COURSE MATERIALS:**

(In correct bibliographic format.)

1. **RESERVED MATERIALS FOR THE COURSE:**

Other special learning resources.

1. **CLASS SCHEDULE:**

This section includes assignments for each class meeting or unit, along with scheduled Library activities and other scheduled support, including scheduled tests.

1. **ANY OTHER INFORMATION OR CLASS PROCEDURES OR POLICIES:**

(Which would be useful to the students in the class.)