

# **Southwestern Adventist University**

**Undergraduate Bulletin Supplement 2016-2017**

**Southwestern Adventist University**

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Supplement 2016-2017**

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# General Education

## A. Life Science

- BIOL 345 Environment and Mankind



# Biological Sciences

## B.S. Biology Biomedical Emphasis

BIOL 340	Cell & Molecular Biology I.....	4
BIOL	Electives (x3).....	9-12

*Electives to be selected from the following courses:*

BIOL 333	Parasitology.....	3
BIOL 341	Cell & Molecular Biology II.....	4
BIOL 410	Human Physiology.....	4
BIOL 443	Comparative Vertebrate Anatomy.....	4
BIOL 450	Histology.....	3
BIOL 455	Immunology.....	3
*BIOL 480	Research in Biology.....	3

**Total: 13-16**

### Required Cognates:

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
CHEM 231	Organic Chemistry I.....	4
CHEM 232	Organic Chemistry II.....	4
PHYS 121	General Physics I.....	4
PHYS 122	General Physics II.....	4
MATH 121	Precalculus <i>or</i> .....	
MATH 241	Introduction to Probability & Statistics.....	3
CSIS 104	Microcomputer Applications.....	3

**Total: 30**

\*BIOL 480 is a one credit hour course. In order to count as an elective, it must be repeated three times and a poster presentation must be given.

## B.S. Biology Ecology and Conservation Biology Emphasis

BIOL 328	Biostatistics.....	3
BIOL 345	Environment & Mankind.....	4
BIOL 360	Plant Biology.....	4
BIOL 443	Comparative Vertebrate Anatomy.....	4
BIOL 475	Management of Fish & Wild Resources.....	4
BIOL	Botany Elective.....	4
BIOL	Ecology Elective.....	4
BIOL	Zoology Elective (x2).....	3

**Total: 35**

*Botany electives:*

BIOL 314	Systematic Botany
BIOL 465	Plant Physiology

# Biological Sciences

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## *Ecology electives:*

BIOL 335	Limnology
BIOL 325	Field Ecology

## *Zoology electives:*

BIOL 312	Ornithology
BIOL 440	Mammalogy
BIOL 462	Ichthyology
BIOL435	Herpetology

## **Required Cognates:**

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
MATH 121	Precalculus <i>or</i> .....	
MATH 241	Introduction to Probability & Statistics.....	3
CSIS 104	Microcomputer Applications.....	3
	<b>Total:</b>	<b>14</b>

## **Courses**

### **BIOL 328 - Biostatistics (4 hours)**

Prerequisites: MATH 241, BIOL 230

The student will learn basic statistical skills, such as hypothesis testing, probability, statistical inference, correlation, regression, curve fitting, and population and sample comparison techniques. The student will also learn to analyze data and generate appropriate graphs using R, SPSS, and Excel.

### **BIOL 435 - Herpetology (4 hours)**

Prerequisites: BIOL 111, 112

Lectures will introduce students to topics of importance to study of reptiles, and amphibians. In lecture, we will focus on anatomy, physiology, taxonomy, ecology, behavior and conservation of this fauna. In laboratories, we will focus on external anatomy, identification skills, habitat preferences, distribution, and collection techniques. We will place emphasis on the fauna in our immediate area but we will discuss reptiles and amphibians from other areas of Texas in our laboratories.

### **BIOL 462 - Ichthyology (4 hours)**

Prerequisites: BIOL 111, 112

A systematic study of fishes with emphasis on anatomy, physiology, taxonomy, behavior, ecology, and conservation of this fauna. In laboratories, we will focus on external anatomy, identification skills, habitat preferences, distribution, and collection techniques. We will place emphasis on the fauna in our immediate area, but we will discuss fishes of the world in lectures, and fishes from other areas of Texas in our laboratories.



### **BIOL 475 - Fisheries and Wildlife Management (4 hours)**

Prerequisite: BIOL 111, 112, 230

This integrative course focuses on ecological principles as they are applied to the conservation and management of fisheries and wildlife resources. We will also discuss how conservation practices are influenced by politics and law, culture, social acceptability and economic feasibility. In lab, you will be introduced to the techniques and equipment used to survey fisheries and wildlife populations.



# Religion

## **SWORD (Soul-Winning Outreach Discipleship) A Bible Worker Certification Program**

### **Description**

A Bible Worker Certification Program that combines college-based classwork with practical training in literature evangelism, outreach, public evangelism, discipleship, and church planning.

### **Leadership**

Ingo Sorke, Program Supervisor - Southwestern Adventist University

Tony Correa, Field Coordinator

### **Certificate Completion**

Certificates will be awarded to students who complete all course requirements and maintain a minimum 2.0 grade point average. Candidates must submit a Certificate Completion contract to the Records Office. A \$25 certificate fee is required at the time the certificate is completed.

### **Certificate Course Requirements**

RELT 101	Christian Beliefs.....	3
RELB 211	Life & Teachings of Jesus.....	4
RELP 220	Christian Witnessing.....	3
RELH 230	History of the SDA Church.....	3
UNIV 112	Whole-Person Wellness.....	2
	<b>Total:</b> .....	<b>14</b>

### **Cost of the Certificate**

Option A - for academic credit: regular Southwestern's Tuition rates apply (\$10,131; regular financial aid available if in a Southwestern degree program.)

Option B - non-degree seeking, for academic course credit (\$10,131; no financial aid available)

Option C - not-for-credit; \$4,995 program fee

### **Admission**

Applicants must:

- 1) Complete an application for admission into the SWORD program
- 2) Submit three letters of recommendation from a pastor, church member and non-family
- 3) Write a two-page essay to Dr. Ingo Sorke, with the following four elements: a) your conversion story, b) current involvement in ministry, c) goals in relation to this program and d) your post-completion plans for ministry.
- 4) Contact Tony Correa to arrange outreach activity (labs).

Apply at [www.swau.edu](http://www.swau.edu) - Deadline for Fall Semester: March 1 Deadline for Spring Semester November 1

