



DEPARTMENT OF  
HIGHER EDUCATION &  
WORKFORCE DEVELOPMENT

## New Program Report

**Date Submitted:**

04/20/2023

**Institution**

Evangel University

**Site Information**

**Implementation Date:**

8/23/2023 12:00:00 AM

**Added Site(s):**

**Selected Site(s):**

Evangel University, 1111 N. Glenstone, Springfield, MO, 65802

**CIP Information**

**CIP Code:**

260101

**CIP Description:**

A general program of biology at the introductory, basic level or a program in biology or the biological sciences that is undifferentiated as to title or content. Includes instruction in general biology and programs covering a variety of biological specializations.

**CIP Program Title:**

Biology/Biological Sciences, General

**Institution Program Title:**

Applied Biology

**Degree Level/Type**

**Degree Level:**

Bachelor's Degree

**Degree Type:**

Bachelor of Science

**Options Added:**

**Collaborative Program:**

N

**Mode of Delivery**

**Current Mode of Delivery**

Online

**Student Preparation**

**Special Admissions Procedure or Student Qualifications required:**

Not applicable.



DEPARTMENT OF  
HIGHER EDUCATION &  
WORKFORCE DEVELOPMENT

## New Program Report

Specific Population Characteristics to be served:

The Evangel University College of Online Learning will offer this as a fully online program for students who are interested in working in a professional field related to biology, but who are not pursuing medical or graduate studies.

Faculty Characteristics

Special Requirements for Assignment of Teaching for this Degree/Certificate:

Not applicable

Estimate Percentage of Credit Hours that will be assigned to full time faculty:

25% (Most faculty in the College of Online are adjunct faculty.)

Expectations for professional activities, special student contact, teaching/learning innovation:

Not applicable

Student Enrollment Projections Year One-Five

<b>Year 1</b>	<b>Full Time: 3</b>	<b>Part Time: 1</b>	
<b>Year 2</b>	<b>Full Time: 5</b>	<b>Part Time: 1</b>	
<b>Year 3</b>	<b>Full Time: 7</b>	<b>Part Time: 2</b>	<b>Number of Graduates: 0</b>
<b>Year 4</b>	<b>Full Time: 9</b>	<b>Part Time: 2</b>	
<b>Year 5</b>	<b>Full Time: 10</b>	<b>Part Time: 2</b>	<b>Number of Graduates: 14</b>

**Percentage Statement:**

n/a

Program Accreditation

Institutional Plans for Accreditation:

This program will be approved by the Higher Learning Commission.

Program Structure

**Total Credits:**

124

**Residency Requirements:**

n/a

**General Education Total Credits:**

72

**Major Requirements Total Credits:**

52

**Course(s) Added**

COURSE NUMBER	CREDITS	COURSE TITLE
BIOL 300-400 LEVEL	9	BIOLOGY ELECTIVES
BIOL 360	3	PATHOPHYSIOLOGY
CHEM 110	3	CHEMISTRY HEALTH SCIENCES



DEPARTMENT OF  
HIGHER EDUCATION &  
WORKFORCE DEVELOPMENT

## New Program Report

PHYS 110		1	INTRODUCTION TO PHYSICS LAB
GSCI 111		3	GEOLOGY
BIOL 124		3	HUMAN BIOLOGY
BIOL 123		3	NUTRITION
GSCI 111		1	GEOLOGY LAB
CPSC 101		3	INTRODUCTION TO PERSONAL COMPUTERS
PHYS 110		4	INTRODUCTION TO PHYSICS
MATH 124		3	INTERMEDIATE ALGEBRA
CHEM 110		1	CHEMISTRY HEALTH SCIENCES LAB
BIOL 131		3	WORLD AGRICULTURAL SYSTEMS
BIOL 200		3	GENERAL BIOLOGY
BIOL 334		3	MEDICAL TERMINOLOGY
BIOL 124		1	HUMAN BIOLOGY LAB
BIOL 200		1	GENERAL BIOLOGY LAB

**Free Elective Credits:**

0

**Internship or other Capstone Experience:**

Not applicable.

**Assurances**

I certify that the program will not unnecessarily duplicate an existing program of another Missouri institution in accordance with 6 CSR 10-4.010, subsection (9)(C) Submission of Academic Information, Data and New Programs.

I certify that the program will build upon existing programs and faculty expertise.

I certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful. Institutions' decision to implement a program shall be based upon demand and/or need for the program in terms of meeting present and future needs of the locale, state, and nation based upon societal needs, and/or student needs.

**Contact Information**

First and Last Name: Connie  
Cross

Email: [crossc@evangel.edu](mailto:crossc@evangel.edu)

Phone: 417-865-2815



## EVANGEL UNIVERSITY

### **New Major: Applied Biology**

Rationale for Program:

A degree program to meet the needs of professionals in fields related to biology who seek an online BS degree in biology.

How does program support:

Evangel's mission:

Evangel University is a comprehensive Christian university committed to excellence in educating and equipping students to become Spirit-empowered servants of God who impact the Church and society globally. This program will educate and equip students who intend or who are working in fields related to biology, with a Christian worldview.

EU20:

C5. Christian Stewardship: Identify opportunities for and engage in stewardship of resources based on biblical principles.

E2. Critical Reasoning: Recognize, evaluate, and construct logical arguments.

E4. Research & Analysis: Evaluate research, analyze data, and articulate arguments according to accepted methodologies in the liberal arts and sciences.

E5. Technological Proficiency: Use current technology to search and communicate information and enhance professional practice.

I5. Faith & Science: Relate Christian faith to the concepts, theories, and practices of science.

Department: Natural and Applied Sciences

What is the proposed delivery mode: ONLINE

1. What drives the proposal to add or change this program?

The documented demand for Missouri students to earn online degrees using the FASTTRACK workforce development program.

2. Program Description

This online program is designed for students seeking a BS in biology, who do not intend to pursue graduate studies in biology. Most biology graduate programs require extensive face-to-face training in laboratory skills and procedures which is outside the scope of this online program.

You will develop a foundational understanding of the principles that govern life at all levels.

Discover the scientific process behind life from a molecular, cellular, organismal, and environmental perspective.

You will be equipped to pursue a wide range of career opportunities in botany, microbiology, cell biology, and environmental biology.

You will learn how to incorporate a practically relate a Christian worldview to biological science.

3. List all required courses for the program including proposed names, numbers, and credit hours. Denote with an asterisk all new courses to be offered.

Prefix	Number	Name	Lec/Lab	Credits
BIOL	123	Nutrition	Lec	3
BIOL	124	Human Biology	Lec	3
BIOL	124	Human Biology	Lab	1
BIOL	131	World Agricultural Systems	Lec	3
BIOL	200	General Biology	Lec	3
BIOL	200	General Biology	Lab	1
BIOL	334	Medical Terminology	Lec	3
BIOL	360	Pathophysiology	Lec	3
BIOL	3xx4xx	Biology Elective	Lec	9
				29
CHEM	110	Chemistry Health Sciences	Lec	3
CHEM	110	Chemistry Health Sciences	lab	1
CPSC	101	Introduction to Personal Computers	Lec	3
GSCI	111	Geology	Lec	3
GSCI	111	Geology	Lab	1
GSCI	113	Earth Science	Lec	3
GSCI	113	Earth Science	Lab	1
MATH	124	Intermediate Algebra	Lec	3
PHYS	110	Introduction to Physics	Lec	4
PHYS	110	Introduction to Physics	Lab	1
				23
BIBA	111	Essential Christianity	Lec	3
BIBA	125	Themes in the OT	Lec	3
BIBA	126	Themes in the NT	Lec	3
ENGA	110	Comp & Grammar	Lec	3
ENGA	121	Writing for the Professional	Lec	3
GNSA	200	AS Seminar	Lec	3
MATH	210	Elementary Statistics	Lec	3
SOCA	332	Culture and Diversity	Lec	3
		Compassion Elective	Lec	3
		Elective	Lec	24
		Health Mgmt Elective	Lec	6
		Humanities	Lec	6
		Social/Behav Sci	Lec	9
				72
				124

4. Total Credit Hours in Program: 124\_\_\_\_\_

1. What assessment of need for the program has been completed?

Market demand study conducted for this program via Gray Associates Program Economics System.

2. What relevant data evidence need?

- 500,000 Missourians qualify for the FastTrack Program. IPEDS data suggest great interest in biology programs.
- Student demand is strong for this program, including inquiry volume growth over 3-year period (National), increase in google searches, and increase in completions.
- Competition is low for online Biology - only 17 institutions with online Biology degrees at the time this data was retrieved.
- Employment opportunities are high! Growth in direct-prep category (13, 249 annual job openings) Growth in generalist category (38, 343 annual openings) –

*Data compiled from Bureau of Labor Statistics/Occupational Outlook, National Center for Education Statistics, IPEDS, Google Trends*

9. What is the anticipated student enrollment of the program?

30 per cohort

10. What University programs may be affected by addition of the proposed program?

none

12.

15. What are admissions requirements or prerequisites for program?

Same as all COL programs.

16. Implications for staffing

Program director (1/2 time teaching load) and adjunct faculty to teach 6 credits per block three blocks per year, for four years.

17. Impact on budget

\$169,625 net income per cohort, 35% net profit margin. (Fall 23 – Summer 25)

18. Timeline for implementation

Launch 1<sup>st</sup> cohort during Fall 2023. Courses will deployed as needed by student academic plans.

\_\_\_\_\_  
Name of department chair

\_\_\_\_\_  
Date of submission

\_\_\_\_\_  
Academic Council date of review

Rev. 10.2019