



DEPARTMENT OF
HIGHER EDUCATION &
WORKFORCE DEVELOPMENT

New Program Report

Date Submitted:

02/10/2022

Institution

Evangel University

Site Information

Implementation Date:

8/23/2017 12:00:00 AM

Added Site(s):

Selected Site(s):

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

CIP Information

CIP Code:

261307

CIP Description:

A program that focuses on the application of the biological sciences to the specific problems of biodiversity, species preservation, ecological sustainability, and habitat fragmentation in the face of advancing human social, economic, and industrial pressures. Includes instruction in ecology, environmental science, biological systems, extinction theory, human-animal and human-plant interaction, ecosystem science and management, wetland conservation, field biology, forest and wildlife biology, and natural history.

CIP Program Title:

Conservation Biology

Institution Program Title:

Applied Science and Sustainability

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

Classroom

Student Preparation

Special Admissions Procedure or Student Qualifications required:

None that exceed regular university admissions and standards.



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Specific Population Characteristics to be served:

Students who are interesting in professions such as conservation agent, ecology researcher, wildlife biologist, and those interested in missions and development. There are two track options in this program: Compassion and Environmental Science.

Faculty Characteristics

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

All faculty must have a doctoral or appropriate master degree in order to teach any course in this program.

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

70%

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

See Learning Outcomes attached to this proposal.

Student Enrollment Projections Year One-Five

Year 1	Full Time: 2	Part Time: 0	
Year 2	Full Time: 3	Part Time: 0	
Year 3	Full Time: 4	Part Time: 0	Number of Graduates: 0
Year 4	Full Time: 5	Part Time: 0	
Year 5	Full Time: 6	Part Time: 0	Number of Graduates: 4

Percentage Statement:

n/a

Program Accreditation

Institutional Plans for Accreditation:

This program is already accredited by the Higher Learning Commission.

Program Structure

Total Credits:

124.

Residency Requirements:

At least 30 credits of the final 40 credits taken prior to graduation must be earned at Evangél University.

General Education Total Credits:

53

Major Requirements Total Credits:

65

Course(s) Added

COURSE NUMBER	CREDITS	COURSE TITLE
GSCI 111	4	GEOLOGY WITH LAB
CHEM 377	4	ENVIRONMENTAL CHEMISTRY
PHYS 211	5	GENERAL PHYSICS 1



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BIOL 298/498	3	INTERNSHIP
BIOL 131	3	WORLD AG SYSTEMS
CHEM 110	4	CHEMISTRY FOR HEALTH SCIENCES WITH LAB
CRDV 334	3	PRINCIPLES OF RELIEF AND DEVELOPMENT
BIOL 343	4	ENVIRONMENTAL BIOLOGY
BIOL 200	4	GENERAL BIOLOGY
THEO 325	3	THEOLOGY OF COMPASSION
NBUS 323	3	INTRO TO SOCIAL ENTERPRISE
ICST 111	3	INTRO TO INTERCULTURAL MINISTRIES
CHEM 112	5	GENERAL CHEMISTRY 2
GSCI 115	4	PHYSICAL SCIENCE WITH LAB
BIOL 202	4	BOTANY
MATH 129	3	PRE-CALC ALGEBRA OR MATH 231
BIOL 448	4	APPLIED SUSTAINABILITY
MATH 124	3	INTERMEDIATE ALGEBRA
BIOL 201	4	ZOOLOGY
CHEM 271	4	ORGANIC CHEMISTRY 1
BIOL 342	4	ECOLOGY
BIOL 496	1	SENIOR SEMINAR
ENVR 496	1	SENIOR SEMINAR
CHEM 111	5	GENERAL CHEMISTRY 1
CPSC 101	3	PERSONAL COMPUTING

Free Elective Credits:

0

Internship or other Capstone Experience:

Not applicable. Please note that the major course requirements differ slightly in each track. The attached program course plans for each track are attached to this. Above I have entered all of the major's courses.

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.



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Contact Information

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Applied Science & Sustainability (Compassion Track)

The Applied Science and Sustainability program is designed for students who wish to prepare for graduate school or professional work in areas relating to the environment, conservation, or field research. Students in this program experience a wide array of classes in the life and physical sciences, as well as numerous field and laboratory opportunities.

The Applied Science and Sustainability major provides students with a marketable 4-year degree for non-medically related professions. Also, students are prepared to attend graduate school in areas relating to the environment, conservation, or field research.

Suggested Course Sequencing: Recommend 15 – 18 semester hours;
however, attending summer school will reduce semester hours.

Freshman year

Semester 1	Cr
BIOL 200 General Biology	4
CHEM 110 Chem for Health Sci	4
MATH 124 Intermediate Algebra	3
BIBL 111 Essential Christianity	3
GSCI 100 University Seminar	1
EXER 101 Lifetime Health Awareness	1
	16

Semester 2	Cr
BIOL 201 Zoology	4
GSCI 111 Geology	4
BIBL 115 Old Testament Literature	3
CPSC 101 Introduction to Personal Computing	3
ENGL 111 Composition	3
	17

Sophomore year

Semester 1	Cr
BIOL 202 Botany	4
GSCI 115 Physical Science	4
BIBL 116 New Testament Literature	3
Historical Inquiry Option	3
Reading and Imagination Option	3
	17

Semester 2	Cr
CHEM 377 Environmental Chemistry	4
BIOL 131 World Ag Systems	3
ENGL 341 Technical Writing	3
MATH 210 Statistics	3
Elective	3
	16

Junior year

Semester 1	Cr
BIOL 342 Ecology	4
BIOL 448 Applied Sustainability	4
Electives	8
	16

Semester 2	Cr
BIBL 360-370 Book Study	3
FIN 138 Personal Finance	3
Elective	7
	13

Senior year

Semester 1	Cr
BIOL 343 Environmental Biology	4
BIOL 496 Senior Seminar	1
Artistic Expression Option	3
Behavioral and Social Sciences Option	3
PSYC 138 Psychology of Healthy Relationships	3
Elective	3
	17

Semester 2	Cr
Humanities Option	3
ICST 350 Global Connections	3
THEO 320 Pentecost	3
Electives	6
	15

Total minimum to graduate 124

and must include at least 36 upper division credits

Graduation requires an overall GPA of at least 2.0, and 30 of the 40 final credits must be taken at Evangel.

The listing above only represents a suggested course sequencing as required to graduate with this major. Students are ultimately responsible for their own degree program. An academic advisor is assigned to the student for guidance in these matters, but the responsibility for meeting the requirements belongs to the student.

Department of Natural and Applied Sciences - Evangel University - 1111 N. Glenstone Ave - Springfield, MO 65802

Name: _____ Date: _____ Advisor: _____

Applied Science and Sustainability: Compassion Track

University Writing Proficiency and Placement Information

Writing Proficiency earned by . . . circle one: ENGL 111 ACT/SAT/CLT (Score:) AP CLEP IB

ACT English ≥ 26 or SAT Writing/Language (W/L) ≥ 33 , CLT Writing/Grammar (W/G) ≥ 32 : Student is proficient. Enroll in Effective Communication option. Refer to each term's "Core Options" document for available choices.

If transfer student has ENGL 111 composition only, enroll in a 200-level Effective Communication course.

If transfer student has a 200-level (or above) composition course, check for Speech course. If no Speech listed, enroll in COMM 211.

If transfer student has a 200-level composition course AND a Speech course, he or she is proficient.

If student has no test scores, enroll in ENGL 102.

ACT English = 24-25, SAT W/L 31-32, CLT W/G 30-31: take Writing Step-Up Exam in first semester.

ACT English 20-23, SAT W/L 28-30, CLT W/G 24-29: ENGL 111	3	Wellness Proficiency	Cr	<input checked="" type="checkbox"/>
ACT English 16-19, SAT W/L 23-27, CLT W/G 19-23: ENGL 102	2	EXER 101 Lifetime Health Awareness	1	
ACT English ≤ 15 , SAT W/L ≤ 22 , CLT W/G ≤ 18 : ENGL 100	1			

Core Curriculum Requirements

	Cr	<input checked="" type="checkbox"/>		Cr	<input checked="" type="checkbox"/>
GSCI 100 University Seminar	1		ENGL 341 Technical Writing	3	
BIBL 111 Essential Christianity	3		MATH 210 Statistics	3	
BIBL 115 Old Testament Literature	3		Historical Inquiry Option*	3	
BIBL 116 New Testament Literature	3		Artistic Expression Option*	3	
BIBL 360 - 370 Book Study (WPR)*	3		Behavioral and Social Sciences Option*	3	
THEO 320 Pentecost	3		Humanities Option*	3	
ICST 350 Global Connections*	3		Healthy Relationships: PSYC 138 (Preferred) or 112	3	
Natural Science without Lab Option*	3	NA	Christian Stewardship: FIN 138 Personal Finance	3	
Natural Science with Lab Option*	4	NA	Reading and Imagination: ENGL 123*	3	
*Refer to each term's "Core Options" document for available choices. WPR = Writing Proficiency Required: ENGL 111 or ACT English ≥ 26			**ENGL/COMM 205 or 341; ENGL 211, 212, or 236 If student has ENGL 201 in transfer, enroll in COMM 211.		

Major Requirements

	Cr	<input checked="" type="checkbox"/>		Cr	<input checked="" type="checkbox"/>
BIOL 131 World Ag Systems	3		GSCI 111 Geology with lab	4	
BIOL 200 General Biology	4		GSCI 115 Physical Science with lab	4	
BIOL 201 Zoology	4		CHEM 110 Chemistry for the Health Sciences w/lab	4	
BIOL 202 Botany	4		MATH 124 Intermediate Algebra	3	
BIOL 298/498 Internship	3		CPSC 101 Personal Computing	3	
BIOL 342 Ecology	4		Choose one:		
BIOL 343 Environmental Biology	4		THEO 325 Theology of Compassion	3	
BIOL 448 Applied Sustainability	4		NBUS 323 Intro Social Enterprise	3	
BIOL 496 Senior Seminar	1		ICST 111 Intro to Intercult Ministries	3	
CHEM 377 Environmental Chemistry	4		Principles of Relief and Development	3	

Minimum total credits to graduate 124

*Refer to each term's advising handbook for options
WPR = Writing Proficiency Required

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Applied Science & Sustainability (Environmental Science Track)

The Applied Science and Sustainability program is designed for students who wish to prepare for graduate school or professional work in areas relating to the environment, conservation, or field research. Students in this program experience a wide array of classes in the life and physical sciences, as well as numerous field and laboratory opportunities.

The Applied Science and Sustainability major provides students with a marketable 4-year degree for non-medically related professions. Also, students are prepared to attend graduate school in areas relating to the environment, conservation, or field research.

Suggested Course Sequencing: Recommend 15 – 18 semester hours;
however, attending summer school will reduce semester hours.

Freshman year

Semester 1	Cr
BIOL 200 General Biology	4
CHEM 111 General Chemistry I [a]	5
MATH 129 PreCalc Algebra or (MATH 231)	3(4)
BIBL 111 Essential Christianity	3
GSCI 100 University Seminar	1
EXER 101 Lifetime Health Awareness	1

18

Semester 2	Cr
BIOL 201 Zoology	4
CHEM 112 General Chemistry II	5
BIBL 115 Old Testament Literature	3
CPSC 101 Introduction to Personal Computing	3
ENGL 111 Composition	3

18

Sophomore year

Semester 1	Cr
BIOL 202 Botany	4
CHEM 271 Organic Chemistry I	4
BIBL 116 New Testament Literature	3
Historical Inquiry Option	3
Reading and Imagination Option	3

17

Semester 2	Cr
ENVR 377 Environmental Chemistry	4
GSCI 111 Geology	4
ENGL 341 Technical Writing	3
MATH 210 Statistics	3
Elective	3

17

Junior year

Semester 1	Cr
ENVR 342 Ecology	4
PHYS 211 General Physics I	5
Electives	8

17

Semester 2	Cr
BIOL Elective	4
BIBL 360-370 Book Study	3
FIN 138 Personal Finance	3
Elective	3

13

Senior year

Semester 1	Cr
ENVR 343 Environmental Biology	4
ENVR 496 Senior Seminar	1
Artistic Expression Option	3
Behavioral and Social Sciences Option	3
PSYC 138 Psychology of Healthy Relationships	3
Elective	3

17

Semester 2	Cr
Humanities Option	3
ICST 350 Global Connections	3
THEO 320 Pentecost	3
Electives	6

15

Total minimum to graduate 124
and must include at least 36 upper division credits

[a] Those not prepared for CHEM 111 should take CHEM 101 - Introduction to Chemistry.

Graduation requires an overall GPA of at least 2.0, and 30 of the 40 final credits must be taken at Evangel. The listing above only represents a suggested course sequencing as required to graduate with this major. Students are ultimately responsible for their own degree program. An academic advisor is assigned to the student for guidance in these matters, but the responsibility for meeting the requirements belongs to the student.

Name: _____ Date: _____ Advisor: _____

Applied Science and Sustainability: Environmental Science Track

University Writing Proficiency and Placement Information

Writing Proficiency earned by . . . circle one: ENGL 111 ACT/SAT/CLT (Score:) AP CLEP IB

ACT English \geq 26 or SAT Writing/Language (W/L) \geq 33, CLT Writing/Grammar (W/G) \geq 32: Student is proficient. Enroll in Effective Communication option. Refer to each term's "Core Options" document for available choices.

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ACT English 16-19, SAT W/L 23-27, CLT W/G 19-23: ENGL 102	2	EXER 101 Lifetime Health Awareness	1	
ACT English \leq 15, SAT W/L \leq 22, CLT W/G \leq 18: ENGL 100	1			

Core Curriculum Requirements

	Cr			Cr	
GSCI 100 University Seminar	1	<input checked="" type="checkbox"/>	ENGL 341 Technical Writing	3	<input checked="" type="checkbox"/>
BIBL 111 Essential Christianity	3		MATH 210 Statistics	3	
BIBL 115 Old Testament Literature	3		Historical Inquiry Option*	3	
BIBL 116 New Testament Literature	3		Artistic Expression Option*	3	
BIBL 360 - 370 Book Study (WPR)*	3		Behavioral and Social Sciences Option*	3	
THEO 320 Pentecost	3		Humanities Option*	3	
ICST 350 Global Connections*	3		Healthy Relationships: PSYC 138 (Preferred) or 112	3	
Natural Science without Lab Option*	3	NA	Christian Stewardship: FIN 138 Personal Finance	3	
Natural Science with Lab Option*	4	NA	Reading and Imagination: ENGL 123*	3	
*Refer to each term's "Core Options" document for available choices.			**ENGL/COMM 205 or 341; ENGL 211, 212, or 236		
WPR = Writing Proficiency Required: ENGL 111 or ACT English \geq 26			If student has ENGL 201 in transfer, enroll in COMM 211.		

Program Requirements

	Cr			Cr	
BIOL 200 General Biology	4	<input checked="" type="checkbox"/>	GSCI 111 Geology with lab	4	<input checked="" type="checkbox"/>
BIOL 201 Zoology	4		CHEM 111 General Chemistry I	5	
BIOL 202 Botany	4		CHEM 112 General Chemistry II	5	
BIOL Elective	3		CHEM 271 Organic Chemistry I	4	
ENVR 342 Ecology	4		PHYS 211 General Physics I	5	
ENVR 343 Environmental Biology	4		MATH 129 PreCalc Algebra or (MATH 231)	3-4	
ENVR 377 Environmental Chemistry	4		CPSC 101 Personal Computing	3	
ENVR 496 Senior Seminar	1				
Minimum total credits to graduate				124	

*Refer to each term's advising handbook for options
WPR = Writing Proficiency Required

Bachelor of Science in Applied Science and Sustainability

The following Program Learning Outcomes have been established by Evangel faculty to define the areas of knowledge and skills that students graduating from this major degree program should have developed.

1. Communicate a scientifically informed world view through writing.
2. Apply the scientific method to research problems in the environmental science field.
3. Use classroom theory to field understanding and application by participation in off campus class opportunities.
4. Use technology associated with the study of environmental science.