



# DEPARTMENT OF HIGHER EDUCATION & WORKFORCE DEVELOPMENT

PUBLIC

INDEPENDENT

## NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

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Please use this form as a worksheet and submit new program information through the Academic Program Actions Portal <https://web.dhewd.mo.gov/academicprogramaction/login.faces>

**Sponsoring Institution:**

**Program Title:** Biology with Concentration in Health Sciences

**Degree/Certificate:**

**If other, please list:**

**Options:**

**Delivery Site:** Saint Joseph, Missouri Western Main Campus

**CIP Classification:** 26.0101

**Implementation Date:** 8/1/2024

**Is this a new off-site location?**  Yes  No

**If yes, is the new location within your institution's current CBHE-approved service region?**

*\*If no, public institutions should consult the comprehensive review process*

**Is this a collaborative program?**  Yes  No

*\*If yes, please complete the collaborative programs form on last page.*

**Please list similar or comparable programs at Missouri public institutions of higher education.**

*\*For public institutions only*

Missouri Southern State University, Northwest Missouri State University, Southeast Missouri State University, University of Central Missouri, University of Missouri-Columbia,

### CERTIFICATIONS:

- The program is within the institution's CBHE approved mission. *(public only)*
- The program will be offered within the institution's CBHE approved service region. *(public only)*
- The program builds upon existing programs and faculty expertise
- The program does not unnecessarily duplicate an existing program in the geographically-applicable area.
- The program can be launched with minimal expense and falls within the institution's current operating budget. *(public only)*

### AUTHORIZATION

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## PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

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Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below.

Quantification of performance goals should be included wherever possible.

### 1. Student Preparation

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.  
None
- Characteristics of a specific population to be served, if applicable.  
N/A

### 2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.  
None
- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.  
>90%
- Expectations for professional activities, special student contact, teaching/learning innovation.  
Faculty are expected to carry out scholarly activity and service

### 3. Enrollment Projections

- Student FTE majoring in program by the end of five years.  
75
- Percent of full time and part time enrollment by the end of five years.  
>95%

### STUDENT ENROLLMENT PROJECTIONS

YEAR	1	2	3	4	5
Full Time	75	75	75	75	75
Part Time	0	0	0	0	0
Total	75	75	75	75	75

### 4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.  
3-year: 20  
5-year: 20
- Special skills specific to the program.  
N/A

- Proportion of students who will achieve licensing, certification, or registration.  
N/A
- Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.

In 2022, 35% of students who were pursuing this program were ranked in the 50<sup>th</sup> percentile on a biology exit exam

- Placement rates in related fields, in other fields, unemployed.

unknown

- Transfer rates, continuous study.  
N/A

## 5. Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide rationale.  
There are no plans to seek accreditation, as there are no relevant accrediting bodies that would significantly add value to the program

## 6. Program Structure

A. Total credits required for graduation: 120

B. Residency requirements, if any:  
None

C. General education: Total credits:  
42

*Courses (specific courses OR distribution area and credits)*

Course Number	Credits	Course Title
Written and Oral Communication	9	
MAT 111	3	Introduction to Statistics
BIO 105	4	Principles of Organismal Biology
CHE 111	5	General Chemistry I
Social and Behavioral Sciences	9	
Humanities and Fine Arts	9	
Other MOTR	3	

D. Major requirements: Total credits: 60-62

Course Number	Credits	Course Title
Core Requirements		33
BIO 106	4	Cell Biology
BIO 205	4	Genetics
BIO 225	4	Ecology
MAT 116	3	College Algebra
CHE 120	5	General Chemistry II with Qualitative Analysis
CHE 310	3	Organic Chemistry I
CHE 311	2	Organic Chemistry I Lab
CHE 370	4	Biochemistry I
PHY 110	4	Physics I
Health Science Electives: Choose five courses		20-21
BIO 250	5	Human Anatomy and Physiology
BIO 310	4	Molecular Cell Biology
BIO 390	4	Microbiology
BIO 411	4	Developmental Biology
BIO 416	4	Vertebrate Biology
BIO 417	4	Medical Parasitology
BIO 421	4	Immunology
BIO 430	4	Molecular Basis of Disease
BIO 441	4	Virology
Science Elective:		
Select 3-4 hours of biology or chemistry numbered 300 or higher*		3-4
*No more than four credit hours combined of BIO 420, 425, and 450		4

E. Free elective credits: 16-18

*(sum of C, D, and E should equal A)*

F. Requirements for thesis, internship or other capstone experience:

None

G. Any unique features such as interdepartmental cooperation:

None

## 7. Need/Demand

Student demand

Market demand

Societal demand

I hereby certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful.

***On July 1, 2011, the Coordinating Board for Higher Education began provisionally approving all new programs with a subsequent review and consideration for full approval after five years.***

## COLLABORATIVE PROGRAMS

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- **Sponsoring Institution One:**
- **Sponsoring Institution Two:**
- **Other Collaborative Institutions:**
- **Length of Agreement:**
- **Which institution(s) will have degree-granting authority?**
- **Which institution(s) will have the authority for faculty hiring, course assignment, evaluation and reappointment decisions?**
- **What agreements exist to ensure that faculty from all participating institutions will be involved in decisions about the curriculum, admissions standards, exit requirements?**
- **Which institution(s) will be responsible for academic and student-support services, e.g., registration, advising, library, academic assistance, financial aid, etc.?**
- **What agreements exist to ensure that the academic calendars of the participating institutions have been aligned as needed?**