



# DEPARTMENT OF HIGHER EDUCATION & WORKFORCE DEVELOPMENT

PUBLIC

INDEPENDENT

## NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

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: Biomedical Sciences Research

Degree/Certificate:

If other, please list:

Options:

Delivery Site: Kansas City University

CIP Classification: 26.0102

Implementation Date: 8/1/2017

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*

### 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

<input type="text" value="Edward R. O'Connor, Provost"/>		<input type="text" value="8/30/2023"/>
Name/Title of Institutional Officer	Signature	Date

## 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.  
**Science GPA of 3.0 is required for admission**

- Characteristics of a specific population to be served, if applicable.  
**Nationally students of all backgrounds are admitted**

### 2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.  
**PhD and expertise in field of teaching**
- 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.  
**FTE: Average of 6 credit hours/semester**
- Expectations for professional activities, special student contact, teaching/learning innovation.  
**Meeting each semester with dean of college; advisor meetings during each semester; Science Friday presentations by guest researchers; Research Seminar to thesis defense committee in first and third semester; Students must take either Research Methodology (Lab based course) or Scientific Communication (goal is to teach students how to review literature, how to present research outcomes involving the final public thesis defense and how to write a science article including the required thesis**

### 3. Enrollment Projections

- Student FTE majoring in program by the end of five years.  
Typically 6-9 new students each year
- Percent of full time and part time enrollment by the end of five years.  
100 full time students and 20 part time students on average

#### STUDENT ENROLLMENT PROJECTIONS

YEAR	1	2	3	4	5
Full Time	13	14	14	15	15
Part Time	0	0	0	0	0
Total	13	14	14	15	15

### 4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.  
**6-8 each year after completing 2-year program**
- Special skills specific to the program.

**Understanding of major areas of biomedical sciences to prepare students for entry in health care professional programs (medical, dental, optometry, PharmD, Physician Assistant) and employment in the biomedical sciences industry**

- Proportion of students who will achieve licensing, certification, or registration.  
none
- 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.  
none
- Placement rates in related fields, in other fields, unemployed.  
On time graduates: 63% medical school, 13% PhD Programs, 3% Graduate Nursing, 21% Employment in Biomedical Sciences
- Transfer rates, continuous study.  
79%

**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.  
none

**6. Program Structure**

- A. Total credits required for graduation: 60
- B. Residency requirements, if any:  
2 years
- C. General education: Total credits:  
0

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

Course Number	Credits	Course Title

D. Major requirements: Total credits: 39

Course Number	Credits	Course Title
BIOS 520	2	Research Seminar (taken twice in program)
BIOS 580	28	Research Project (taken over 4 semesters plus Summer Session)
BIOS 590	6	Thesis
BIOS 515	3*	Scientific Communication or BIOS 510 OR *
BIOS 510	3*	Research Methodology (Lab based course) or BIOS 515

E. Free elective credits: 21

Course Number	Credits	Course Title
BIOS 508	3	Human Genetics or
BIOS 514	3	Molecular and Cell Biology or
BIOS 509	3	Introduction to Epidemiology or
BIOS 503	3	Histology or
BIOS 501	3	Human Anatomy I or
BIOS 505	3	Human Physiology I or
BIOS 551	3	Introduction to Computer Programming or
BIOS 550	3	Bioinformatics or
BIOS 513	3	Biochemistry or
BIOS 516	3	Immunology or
BIOS 554	3	Computer Programming for Bioinformatics or
BIOS 517	3	Human Embryology & Developmental Biology or
BIOS 502	3	Human Anatomy II or
BIOS 506	3	Human Physiology II or
BIOS 518	3	Microbiology

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

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

Thesis: Public thesis defense and approved thesis

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?**