

□PUBLIC

⋈INDEPENDENT

Name/Title of Institutional Officer

NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

When finished, please save and email to: he.academicprogramactions@dhe.mo.gov **Sponsoring Institution**: Cottey College Program Title: Biology **Degree/Certificate**: BS-Bachelor of Science If other, please list: Click here to enter text **Options**: Click here to enter text **Delivery Site**: Cottey College campus **CIP Classification**: 260101 **Implementation Date: 1/1/2018** Is this a new off-site location? \square Yes \bowtie No If yes, is the new location within your institution's current CBHE-approved service region? \Box *If no, public institutions should consult the comprehensive review process Is this a collaborative program? $\square Yes \square No$ *If yes, please complete the collaborative programs form on last page. **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 Chioma Ugochukwu, Ph.D. Vice Agrelukou President for Academic Affairs

Date

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

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.
 Because Cottey College is a women's college, this program will be serving female students. In the US job market, there is an ever-increasing demand for employees with a background in the STEM (Science, Technology, Engineering, and Math) fields. By developing an innovative program in Biology, Cottey is in a unique position to produce highly skilled scientific workers who are women to meet that demand.

2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.
 - The full time faculty teaching in this program would have a Ph.D. in Biology with the minimal qualifications being a master's degree with at least 18 graduate hours in biology. Any part time faculty teaching courses in the biology degree program would be required to have at least 18 graduate hours in Biology.
- 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.
 Full time faculty would teach the majority of the courses in this program, likely 85-90%
- Expectations for professional activities, special student contact, teaching/learning innovation.
 Full time faculty would be expected to mentor students as advisors and in the field, most specifically for the capstone course. They would be expected to attend conferences in the discipline, ideally promoting student participation as well.

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.
 40
- Percent of full time and part time enrollment by the end of five years.
 95% full time and 5% part time

STUDENT ENROLLMENT PROJECTIONS

YEAR	1	2	3	4	5
Full Time	7	14	21	30	40
Part Time	0	0	0	0	0
Total	7	14	21	30	40

4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation. 10 at three years and 18 at five years
- Special skills specific to the program.

Click here to enter text

- Proportion of students who will achieve licensing, certification, or registration.
 Not Applicable
- 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 criterionreferenced 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.

Not applicable

- Placement rates in related fields, in other fields, unemployed.
 Placement in related Fields: 60%; Other fields: 20%; Unemployed: 5%
- Transfer rates, continuous study.
 Pursuing a graduate or professional degree the year after graduation 15%

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.
 Not Applicable

6. Program Structure

A. Total credits required for graduation: 120

B. Residency requirements, if any:

45 credit hours

C. General education: Total credits:

27-29

Courses (specific courses OR distribution area and credits)

Course Number	Credits	Course Title	
FWS 101	3	First Year Writing Seminar	
WRI 102	3	College Writing 2	
MAT 103	3	College Algebra or higher	
Science lecture and lab	4-5	AST/BIO/CHE/PHY options	
Fine Arts Division	3	Select courses from the Fine Arts Division	
Humanities Division	3	Select courses from the Humanities Division	
Social Science Div.	3	Select courses from Social Sciences Division	
Wellness requirement	2-3	Dance/PE Activity course (2 credits) OR Theory/Activity PHE 139 Lifetime	
		Fitness Concepts (3 credits)	
Women, Gender, and	3	May be taken as part of another requirement	
Sexuality Studies			

D. Major requirements: Total credits: 71-72

Course Number	Credits	Course Title	
Science 1		30 hours required	
BIO 107/L	4	Principles of Biology	
BIO 204/L	4	Genetics	
BIO 207/L	4	Zoology	
CHE 210/1	5	General Chemistry 1	
CHE 212/3	5	General Chemistry 2	
PHY 101	4	Introduction to Physics	
PHY 205	4	General Physics	
BIO 107/L	4	Principles of Biology	
Calaman II		24 hours required (at least 4 courses must have a lab component)	
Science II			
BIO 115	3	Human Nutrition	
BIO 120	3	Environmental Science	
BIO 125/L	4	Botany 4	
BIO 211/L	4	Anatomy & Phys 1	
BIO 212/L	4	Anatomy & Phys 2	
BIO 240/L	4	Microbiology	
BIO 301/L	4	Molecular Biology	
CHE 340/L	4	Biochemistry	
HSC 440	3	Molec. Mech. Disease	
Mathematics		3-4 hours required	
	2	·	
MAT 112	3	Elementary Statistics	
MAT 201	4	Calculus I	
Social Sciences		3 hours required	
ENV 315	3	Ecosystems, Fnct, and Mgnt	

ENV 335	3	Earth Sci: Soil, Water and Atm	
PSY 235	3	Biopsychology	
PSY 335	3	Drugs and Behavior 3	
Writing		3 hours required	
XXX	3	Writing intensive course, 200-level or above.	
Experiential Learning		3 hours required	
XXX	3	Experiential learning: Internship, directed study, or independent research	
Seminar & Capstone	5	5 hours required	
BIO 190	1	Introduction to Scientific Literature	
BIO 390	1	Communicating Science	
BIO 490	3	Capstone	

E. Free elective credits: 19-22 (sum of C, D, and E should equal A)

- F. Requirements for thesis, internship or other capstone experience: Capstone course and project
- G. Any unique features such as interdepartmental cooperation: Click here to enter text

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

• Sponsoring Institution One: Choose an institution

• Sponsoring Institution Two: Choose an institution

Other Collaborative Institutions: Click here to enter text

• Length of Agreement: Click here to enter text

• Which institution(s) will have degree-granting authority? Click here to enter text

• Which institution(s) will have the authority for faculty hiring, course assignment, evaluation and reappointment decisions? Click here to enter text

 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.?
 Click here to enter text

• What agreements exist to ensure that the academic calendars of the participating institutions have been aligned as needed?

Click here to enter text

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