

PUBLIC
 INDEPENDENT



SAVE
SUBMIT
ATTACH
SHOW ATTACHMENTS

NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

Sponsoring Institution: Moberly Area Community College

Program Title: Biology

Degree/Certificate: AS-Associate of Science If other, please list: _____

Options: _____

Delivery Site(s): MACC - Columbia Higher Education Center, MACC - Kirksville Higher Education Center

CIP Classification: 26.0101

**CIP Code can be cross-referenced with programs offered in your region on [MDHE's program inventory](#).
[Click here for link to NCES CIP site.](#)*

Implementation Date 8/20 please use MM/YY date format.

Is this a new off-site location? No Yes

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

**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 page 6.*

CERTIFICATIONS:

- The program is within the institution's CBHE approved mission. *(public institutions only)*
- The program will be offered within the institution's CBHE approved service region. *(public institutions 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 institutions only)*

AUTHORIZATION:

Jeffery C. Lashley, President
Name/Title of Institutional Officer

Signature

11/25/19
Date

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Although 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. Qualifications of performance goals should be included wherever possible.

If you need more than one line of text to answer questions 1–5, please attach a Word .doc.

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.

No special procedures or student qualifications will be required.

- 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.

Master's degree is required. Teaching experience is preferred.

- 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.

> 60% of credits will be assigned to full-time faculty.

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

N/A

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.

28

- Percent of full time and part time enrollment by the end of five years.

55% full time and 45% part time

STUDENT ENROLLMENT PROJECTIONS

YEAR	1	2	3	4	5
FULL TIME	15	16	18	20	22
PART TIME	10	12	14	16	18
TOTAL	25	28	32	36	40

4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.

15 and 24

- 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.

>50% on ETS Proficiency

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

N/A (The AS is a transfer degree.)

- Transfer rates, continuous study.

>80% of program graduates will transfer.

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 a rationale

MACC is accredited through the Higher Learning Commission. Specialized accreditation does not apply.

6. Program Structure

A. Total credits required for graduation: 60 (see attached map)

B. Residency requirements, if any: Completion of 15 college-level credits at MACC

C. General education: Total credits: 27-29

Courses (specific courses OR distribution area and credits)

Course Number	Credits	Course Title
LAL101	3	Composition I
LAL102	3	Composition II
HS105/106, PSC105	3	Am Hist. to 1865, Am Hist. from 1865, Intro to Am Govt.
MATH	3-5	Precalc Alg., Elem. Stat., Precalc, Calc for Business/Life Sci, Calc 1
BIO155	4	General Biology for Majors I
PHY121	5	General Chemistry I
Ged Ed Elective #1	3	Humanities/Fine Arts, Social/Behavioral Sciences/Communications
Ged Ed Elective #2	3	Humanities/Fine Arts, Social/Behavioral Sciences/Communications

D. Major requirements: Total credits: 22-30

Course Number	Credits	Course Title
BIO160	4	General Biology for Majors II
MATH	3-5	Precalc Alg., Elem. Stat., Precalc, Calc for Business/Life Sci, Calc 1
PHY122	5	General Chemistry II
Technical Elective #1	3-5	Zoology, Plant Bio, Genet, Soil Sci. Physics I & II, Organ Chem, Trig
Technical Elective #2	3-5	Zoology, Plant Bio, Genet, Soil Sci. Physics I & II, Organ Chem, Trig
Technical Elective #3	3-5	Zoology, Plant Bio, Genet, Soil Sci. Physics I & II, Organ Chem, Trig
SKL101	1	College Orientation

E. Free elective credits: 6-10 (as needed to reach a minimum of 60 hours)

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

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

G. Any unique features such as interdepartmental cooperation: _____

7. Need/Demand

Student demand

Market demand

Societal need

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.

Associate of Science – Biological Sciences

Name: _____ ID#: _____ Date: _____

This academic map is a semester-by-semester schedule of courses based upon the AS degree requirements as outlined in the academic catalog. In order for you to graduate in two years, specific milestones, courses and other requirements (e.g. prerequisites) must be met in a timely manner. To ensure that milestone courses are completed, it is important that you, when possible and appropriate, enroll in any needed developmental coursework during the first semester(s) of enrollment. Additionally, keep in mind this map does not substitute for academic advisement. If you have questions, see your advisor and refer to the MACC website for current information.

All technical and general education elective courses should be selected to align with intended transfer degree program. See program advisors at MACC and intended transfer institution for assistance with selection of appropriate elective courses.

Taken	Course	Semester	Hours
First Semester			
	BIO155	General Biology for Majors I	4
	LAL101	^Composition I	3
	MTH140 <u>or</u> MTH150 <u>or</u> MTH160 <u>or</u> MTH190 <u>or</u> MTH201	^Precalculus Algebra <u>or</u> ^Precalculus <u>or</u> ^Elementary Statistics <u>or</u> ^Calculus for Business and Life Sciences <u>or</u> ^Analytic Geometry & Calculus I	3-5
	PHY121	^General Chemistry I	5
	SKL101	College Orientation	1
			16-18
Second Semester			
	BIO160	General Biology for Majors II	4
	LAL102	^Composition II	3
	MTH140 <u>or</u> MTH150 <u>or</u> MTH160 <u>or</u> MTH190 <u>or</u> MTH201	^Precalculus Algebra <u>or</u> ^Precalculus <u>or</u> ^Elementary Statistics <u>or</u> ^Calculus for Business and Life Sciences <u>or</u> ^Analytic Geometry & Calculus I	3-5
	PHY122	^General Chemistry II	5
			15-17
Third Semester			
		General Education Elective	3
	HST105 <u>or</u> HST106 <u>or</u> PSC105	American History to 1865 <u>or</u> American History from 1865 <u>or</u> Introduction to American Government	3
		Technical Elective	3-5
		Technical Elective	3-5
			12-16
Fourth Semester			
		Free Elective (General Education or Technical)**	3-5
		Free Elective (General Education or Technical)**	3-5
		General Education Elective	3
		Technical Elective	3-5
			12-18
Associate of Science Degree			60

^Please refer to the college catalog and course descriptions for pre/co-requisite and placement information. You can only register for these courses if you have met the prerequisite, placed into the course and/or enroll in the co-requisite course(s).

*Math – complete two courses. Most biological science programs require MTH190 or MTH201.

**Free Electives – Complete additional elective courses as needed to reach a minimum of 60 credit hours.

Additional Graduation Requirement - Missouri law, included in Senate Bill 807, requires every college student pursuing an associate's or bachelor's degree at a public institution to pass the Missouri Higher Education Civics Achievement Examination with at least a 70 percent to graduate. The rule will apply to the incoming class of first-time college students in the fall of 2019 and all students thereafter.

General Education Elective Options for AS Degree

Please refer to the Elective Course Transfer Guide for requirements specific to individual transfer degree programs.

Complete a minimum of 6 credit hours.

<u>Humanities/Fine Arts</u>	<u>Social/Behavioral Sciences</u>	<u>Communications</u>
ART 101 Art Survey & Appreciation I	ECN 101 Macroeconomics	SPK 101 Public Speaking
ART 102 Art Survey & Appreciation II	ECN 102 Microeconomics	
DRM 120 Theatre Appreciation	GEO 101 World Geography I	
LAL 120 American Literature Survey to 1870	HST 101 Western Civilization I	
LAL 121 American Literature Survey 1870- Present	HST 105 American History to 1865	
LAL 125 African-American Literature	HST 106 American History from 1865	
LAL 150 English Literature Survey to 1750	PSC 105 Introduction to American Government	
LAL 151 English Literature 1750-Present	PSY 101 General Psychology	
LAL 251 Science Fiction	SOC 101 Sociology	
LAL 275 Classical Mythology		
MUS 102 Music Appreciation		
MUS 105 Music of America		
MUS 205 World Music		
PHI 150 Introduction to Philosophy		
PHI 151 Introduction to Logic		
PHY 152 Introduction to Ethics		
PHI 153 Bioethics		
PHI 251 Religions of World		

Technical Elective Options for AS Degree

Please refer to the Elective Course Transfer Guide for requirements specific to individual transfer degree programs.

Complete a minimum of 9 credit hours.

<u>Science Electives</u>	<u>Math Electives</u>
BIO150 Zoology	MTH145 Precalculus Trigonometry
BIO151 Introductory Plant Biology	
BIO220 General Genetics	
PHY140 Soil Science	
PHY163 Geology	
PHY164 Atmospheric Science	
PHY181 General Physics I	
PHY182 General Physics II	
PHY201 Engineering Physics I	
PHY202 Engineering Physics II	
PHY222 Organic Chemistry I	



Please provide response to the statements below.

1. What are the specific sources of funds to support the new proposed program?

Many of the courses are currently offered. It will be self supporting through tuition and fees from year 1.

2. If the new program is being funded through the "core institutional budget," what amount of funds will be reallocated and from which areas?

No reallocation required.

3. Are there any programs that will be deleted as a result of implementing this new program?

No programs will be deleted as a result of implementing this new program.

4. If the program will be supported by external funds, have the funding agency, the amount of funds, and whether they are one-time or ongoing funding been identified?

No outside funding anticipated.

5. In those circumstances for which one-time or limited duration funds are an integral component of the financing arrangements for the new program, please define a transition plan for the period when the one-time or limited duration funds cease to be available.

N/A