

FACULTY AGENDA ITEM

Date: 3/18/2024

Submitted by: John Mullican, x. 2079

Subject: Significant Program Changes – Biology, BEd

Description / Rationale: The rationale for these changes is, in large measure, to comply with the new KBOR Gen Ed changes but also to better align with the Kansas Department of Education's science standards.

Changes include:

- Course number changes for BI 192 and BI 194 (formerly BI 102 and BI 103, respectively)
- Removed BI 255 and BI 275 as requirements
- Added BI 203 as a requirement
- Added 6 hours of biology electives at 200-level or higher (one course should be animal-focused and the other, plant-focused)
- Removed the required behavior course
- Updated Education course changes for 2024 catalog.
- Not reflected in this program change is that we will now accept either MA 112 or MA 116 for the BED program. MA 112 or MA 116 serves as pre-requisites for the CH 121 and PS 13X courses.

Financial Implications: None indicated.

Proposed Effective Date: Fall 2024

Request for Action: Approval by AAC/FS/ Gen Fac/WUBOR

Approved by: AAC on 3/18/2024

Faculty Senate on date

Attachments: **Yes X** No **_**

Program Change Request

Date Submitted: 12/01/23 5:02 pm

Viewing: **BI-BED : BI: Biology BED**

Last approved: 10/26/22 4:53 pm

Last edit: 03/19/24 9:06 am

Changes proposed by: John Mullican (john.mullican)

Catalog Pages Using this Program

[Biology Secondary Education, BEd](#)

Change Type [Significant](#)

Summarize Changes and Include Rationale

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General Information

Effective Catalog Edition	2024-2025
Department	Biology
College	College of Arts and Sciences
Division	Natural Science & Mathematics
Degree Level	Undergraduate
Program Title	BI: Biology BED
Degree to be Offered	Bachelor of Education (BED)
Is this program offered completely online?	No
Does this program lead to a teaching certification?	Yes
Program Code	BI-BED
Is this program an interdisciplinary program?	No
CIP Code	131322 - Biology Teacher Education .
Modality	

Admission and Curriculum

Admission Criteria

Total Number of Semester Credit Hours for the

In Workflow

1. Acad Ops
2. BI Chair
3. Library
4. ED Chair
5. NSM Chair
6. CA Dean
7. CFCCC Chair
8. Assoc Dean CFC
9. CA Assoc Dean
10. Governance Check
11. AA Committee
12. Faculty Senate
13. General Faculty
14. WUBOR
15. Final Acad Ops
16. Registrar

Approval Path

1. 12/04/23 9:16 am
Holly Broxterman (holly.broxterman):
Approved for Acad Ops
2. 12/04/23 12:47 pm
John Mullican (john.mullican):
Approved for BI Chair
3. 12/04/23 12:57 pm
Sean Bird (sean.bird):
Approved for Library
4. 01/25/24 1:30 pm
Cherry Steffen (cherry.steffen):
Approved for ED Chair
5. 02/16/24 3:28 pm
Andrew Herbig (andrew.herbig):
Approved for NSM Chair
6. 02/19/24 8:55 am
Kelly Erby (kelly.erby):
Approved for CA Dean
7. 02/21/24 3:38 pm
Bruce Mactavish (bruce.mactavish):
Approved for CFCCC Chair
8. 02/26/24 9:17 pm
Kelly Erby (kelly.erby):
Approved for Assoc Dean CFC
9. 03/05/24 9:57 pm
Kelly Erby (kelly.erby):
Approved for CA

Degree	Assoc Dean
Curriculum	10. 03/06/24 8:57 am Beth O'Neill (beth.oneill): Approved for Governance Check
	11. 03/19/24 9:06 am Holly Broxterman (holly.broxterman): Approved for AA Committee
History	
	1. Apr 21, 2022 by clmig-jwillging
	2. Sep 30, 2022 by Holly Broxterman (holly.broxterman)
	3. Oct 26, 2022 by Holly Broxterman (holly.broxterman)

Degree Requirements

In addition to the requirements stated below, students must complete 34-35 hours ~~The Bachelor~~ of General Education, all requirements for a Bachelor of Education degree, and any additional hours needed to reach the ~~(BEd) in Biology Secondary Education requires a~~ minimum of 120 credit hours required for graduation. ~~hours as outlined below.~~ Some of the courses below may also fulfill general education or other degree requirements. Please see your advisor for more information.
Students seeking certification to teach Biology must also be formally admitted to the University's Professional Teacher Education Programs.

Required Courses Inside Department		
EN 101	Introductory College Writing	3
EN 300	Advanced College Writing	3
MA 116	College Algebra	3
WU 101	The Washburn Experience	3
<u>BI 192</u>	<u>General Cellular Biology</u>	<u>5</u>
<u>BI 194</u>	<u>General Organismal Biology</u>	<u>5</u>
<u>BI 203</u>	<u>Human Impact on the Environment</u>	<u>3</u>
<u>BI 301</u>	General Microbiology	4
<u>BI 310</u>	Ecology	4
<u>BI 319</u>	Biology for STEM Educators	3
<u>BI 333</u>	General Genetics	4
<u>BI 340</u>	Evolutionary Biology	3
Correlated Science Course Requirements²		
<u>Select a minimum of 6 credits of Biology at the 200 level or higher. One course must be animal focused and the other, plant focused.</u>		<u>6</u>
Required Courses In Other Departments		
Social Sciences, GESS		9
Humanities, GEHU¹		9
Natural Sciences, GENS (9) – Satisfied by Non-Biology required correlated natural science coursework		9
<u>CH 121</u>	General, Organic, and Biological Chemistry	5
<u>MA 140</u>	Statistics	3
<u>PS 131</u>	Biological Physics for the Health and Life Sciences	3
<u>PS 132</u>	Biological Physics for the Health and Life Sciences Laboratory	1
Required Behavior Course		
Select one of the following:		3
AN 311	Primate Social Behavior	

BI 202	Biology of Behavior	
PY 307	Physiological Psychology	
Education Course Requirements		
Required Courses Inside Education Department		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 255	Human Physiology	4
BI 275	Human Anatomy	4
<u>Professional Education (Pre-Admission Courses Required for Admission to Teacher Education)</u>		
ED 155	Teaching, Learning, Leadership	3
ED 285	Educational Psychology	3
<u>Core Education Courses</u>		
ED 165	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
ED 275	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
ED 295	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3
ED 302	Teaching Exceptional Learners	3
ED 345	Course ED 345 Not Found	3
ED 352	Course ED 352 Not Found	3
ED 350	<u>General Secondary Methods</u>	<u>3</u>
ED 354	<u>Curriculum and Assessment</u>	<u>3</u>
ED 395	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3)	3
<u>Professional Semester</u>		
ED 410	Secondary Student Teaching	12
Total Hours		88
13 of which must be AR, MU, or TH²satisfies GENS requirements		
Pathway		

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

Supplemental Files

Reviewer

Holly Broxterman (holly.broxterman) (03/19/24 9:06 am): Approved in 3/18/24 Academic

Comments

Affairs Committee Meeting.