COLLEGE OF ARTS AND SCIENCES
NEW PROGRAM REVIEW FORM

	Chair's Signature	Recommendation	Review Date
Department	**John Mullican**	**Approve**	**2018-10-15**
Division	**Jennifer Wagner**	**Approve**	**2018-10-19**
Dept. of Educ. (If relates to teacher certification program.)	**Cherry Steffen**	**Approve**	**2018-10-20**
Dean	**Laura Stephenson**	**Approve**	**2018-10-22**
Curriculum Committee	**Linzi Gibson**	**Approve**	**2019-01-17**
Accepted by CFC	**Michaela Saunders**	**Approve**	**2019-02-15**
CAS Faculty	**Michaela Saunders**	**Approve**	**2019-03-25**

Approved By:	**Faculty Senate** _____	**University Faculty** _____	**WU Board of Regents** _____

1. Title of Program.

Bachelor of Education (B. Ed.) in Biology Secondary Education (CIP:26.0101) (CIP: CIP:26.0101)

2. Rationale for offering this program.

The current degree offered for students preparing for a career in Biology Secondary Education requires approximately 148 credits. This greatly exceeds Washburn University's goal to standardize the 120 credit hour requirement for all Bachelor's degrees. The B. Ed. in Biology Secondary Education will ensure that students earning the degree complete the same core curriculum as all other Education Majors. The degree plan reduces the number of credits in the other natural sciences but maintains a curriculum that ensures our students have the content knowledge that includes the major disciplines within biology, and satisfies the KSDE standards.

3. Exact proposed catalog description.

In the "Degrees Offered" section of the catalog:
Bachelor of Education
Biology Secondary Education

Student Learning Outcomes for the Biology Secondary Education Major
Biology Secondary Education Majors with a Bachelor of Education degree, upon completion of the program will be able to:
- understand and explain the similarities and differences between how a variety of organisms live and grow.
- understand and explain how organisms interact with their environment
- understand and explain how genetic information is transmitted from one generation to the next and how genetic variation is lost or maintained.

- understand and explain evolutionary principles and processes and how they provide evidence that shows the relatedness of different species.
- incorporate core biological ideas, scientific and engineering practices, and crosscutting concepts into instruction.
- demonstrate an ability to create and manage environments that support learning.

The Bachelor of Education (B. Ed.) in Biology Secondary Education requires a minimum of 120 credit hours as outlined below.

University requirements:
- EN 101 (3)
- EN 300 (3)
- MA 116 or higher (3)
- WU 101 (3)

General Education requirements:
- Social Sciences, GESS (9)
- Humanities, GEHU (9), 3 of which must be AR, MU, or TH
- Natural Sciences, GENS (9)

Biology Course requirements:
- BI 102 (5)
- BI 103 (5)
- BI 255 (4)
- BI 275 (4)
- BI 301 (4)
- BI 310 (4)
- BI 319 (3)
- BI 333 (4)
- BI 340 (3)
  Total: 36 credit hours

Correlated science course requirements (satisfies GENS requirements):
- CH 121 (5)
- MA 140 (3)
- PS 131 (3)
- PS 132 (1)
  Total: 12 credit hours

Required behavior course:
Choose at least one course from the following list:
- AN 311 (3)
- BI 202 (3)
- PY 307 (3)
  Total: 3 credit hours

Education course requirements:
- ED 155 (3)
- ED 165 (3)
- ED 275 (3)
- ED 285 (3)
- ED 295 (3)
- ED 302 (3)

- ED 345 (3)
- ED 352 (3)
- ED 395 (3)
- ED 410 (12)
  Total: 39 credit hours

4. List any financial implications.

   Please see attached pro forma. A modest increase in revenue ($131,400 over 5 years) is expected assuming a conservative estimate of 1 new student each year during the initial 5 years.

5. Are any other departments affected by this new program? Yes

   The Education Department will be affected as the new B. Ed. Degree will be offered by numerous discipline-specific majors. CH, PS, MA, AN, PY will also be affected to some degree.

Department of Biology
Bachelor of Education (B. Ed.) in Biology Secondary Education

Program Name	**Bachelor of Education in Biology Secondary Education**									
		(e.g., FY13, FY14, etc.)								
Revenue:	**Year 0 - Preparation**	**Year 1 FY20**		**Year 2 FY21**		**Year 3 FY22**		**Year 4 FY23**		**Year 5 FY24**	
		# Students	**# Cr Hrs**	**# Students**	**# Cr Hrs**	**# Students**	**# Cr Hrs**	**# Students**	**# Cr Hrs**	**# Students**	**# Cr Hrs**
Est. Students/Cr Hrs	0	1	30	2	30	3	30	4	30	5	30
Total Credit Hours	0	30		60		90		120		150	
Tuition Rate*		$292		$304		$317		$331		$345	
Other Revenue Sources											
Total Revenue	**0**	**$8,760**		**$18,268**		**$28,572**		**$39,723**		**$51,774**	

Ongoing Expenses:	**Year 0 - Preparation**	**Year 1**	**FTE**	**Year 2**	**FTE**	**Year 3**	**FTE**	**Year 4**	**FTE**	**Year 5**	**FTE**
1 st Faculty Member											
Benefits (25%)											
2nd Faculty Member											
Benefits (25%)											
3rd Faculty Member											
Benefits (25%)											
(Continue to add as needed)											
Secretary											
Benefits (25%)											
Adjunct Faculty											
Student stipends											
Supplies											
Marketing											
Travel											
Online Course Development											
Professional Development											
Accreditation/Membership											
Support Materials											
Total Expenses	-	-		-		-		-		-	
Total Net Revenue	**$ -**	**$ 8,760**		**$ 18,268**		**$ 28,572**		**$ 39,723**		**$ 51,774**	**$ 147,097**

One-time Startup Costs	**Year 0 - Preparation**	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**
Furniture						
Office Equipment						
Computer/Software						
Other Electronic Hardware						
Renovation						
Program Equipment						
Initial Accreditation Costs						
Program Development						
Membership						
Release Time to Develop						
Consultant						
Site Visit						
Inservice/Preservice Prep						

Footnotes:
The B.Ed. In Biology Secondary Education requires a minimum of 120 credits.
The number of students listed as 5 in Year 5 anticipates 1 graduating student, 1 incoming student and 4 existing students.
*Tuition is estimated to increase by 4.27% annually. These numbers are reflected in years 2-5, rounded to a whole number.

Updated by John Mullican, April 10, 2019