



350 New Campus Drive
 Brockport, New York 14420
 585-395-2586 * 585-395-2006 (fax)
 senate@brockport.edu
 brockport.edu/collegesenate

Resolution **2023-24 #10**
College Senate

Supersedes Res #: _____

RECEIVED
 JAN 25 2024
 SUNY Brockport
 Office of the President

TO: Dr. Heidi Macpherson, College President

FROM: The College Senate:

- RE: → I. Formal Resolution (*Act of Determination*)
 II. Recommendation (*Urging the Fitness of*)
 III. Other, For Your Information (*Notice, Request, Report, etc.*)

SUBJ: **Accelerated Pathway B.S. in Biology to MS Ed Biology Education
 Inclusive Generalist (5-12) (#21_23-24UCG)**

Implementation Effective Date**: _____

Signed: Cathy Houston-Wilson Date: 1 / 25 / 24
 (Dr. Cathy Houston-Wilson, 2023-2024 College Senate President)

Signed: [Signature] Date: 01 / 25 / 24
 (Dr. Eileen Daniel, Senior Vice Provost, The College at Brockport)

****Implementation of resolution requires final approval from SUNY- State Education Department.**
 ___ YES NO KAAA

Please fill out the bottom portion and follow the distribution instructions at the end of this page.

TO: Dr. Cathy Houston-Wilson, College Senate President

FROM: Dr. Heidi Macpherson, College President

- RE: → I. Decision and Action Taken on Formal Resolution (circle choice)
 a. Accepted
 b. Deferred for discussion with the Faculty Senate on ___/___/___
 c. Unacceptable for the reasons contained in the attached explanation.
 d. Comments:

Signed: [Signature] Date: 2/2/24
 (Dr. Heidi Macpherson, President, The College at Brockport)

DISTRIBUTION:
 The College Senate will forward the resolution signed by the College Senate President to the Vice Provost for determination as to whether the implementation of the resolution requires final approval from SUNY-State Education Dept. The Vice Provost will then forward the resolution with that designation to the College President. Upon approval, the College President will forward copies of resolutions to his/her staff who will, in turn, forward copies to their staff and to the College Senate. The College Senate Office will post resolutions to the College Senate Web at <http://www.brockport.edu/collegesenate/resolutions>.



College Senate

SUNY BROCKPORT

PROPOSAL COVER PAGE

DEADLINE FOR SUBMISSIONS: January 31

For full consideration during the academic year.

Your proposal will be made into an ADA compliant PDF, will receive page numbering and a routing number, and will be forwarded onto the appropriate committee chair(s).

Routing Number <i>Routing # assigned by Senate Office</i>	21_23-24UCGC
This Proposal Replaces Resolution	
Revision Date(s)	
Anticipated Effective Date:	

Proposal title

Accelerated pathway, B.S. in Biology to M.S.Ed. Biology Education Inclusive Generalist (5-12)

Proposal summary

Proposal creates an advising pathway where eligible students majoring in biology complete up to 12 graduate credits in the M.S.Ed. in Biology Education Inclusive Generalist (5-12) program.

Proposer information

Laurie Cook, Biology, lcook@brockport.edu

Chris Wilkens, Education & Human Development, cwilkens@brockport.edu

Senate Office use only

Standing Committee	Date Sent to Committee	Date Sent to EC
Equity, Diversity and Inclusion Committee		11/1/2023
Engagement & Enrollment Planning & Policies		
Faculty & Professional Staff Policies		
General Education & Curriculum Policies		
<input checked="" type="checkbox"/> Graduate Curriculum & Policies		
Student Policies		
<input checked="" type="checkbox"/> Undergraduate Curriculum & Policies		
Executive Committee		

Notes (Senate Office use only):

College Senate Curriculum Proposal Template

Please check:

Undergraduate Graduate Combined Degree Program Accelerated Pathway

Sponsoring department:

Biology & Education & Human Development

Program:

B.S. in Biology to M.S.Ed Biology Education Inclusive Generalist (5-12)

New or Revised Program (Please check):

New program Revised or restructured program

Proposal title (Same as on the cover page):

Accelerated pathway, B.S. in Biology to M.S. Ed Biology Education Inclusive Generalist (5-12)

Proposal summary (Same as on the cover page):

Proposal creates an advising pathway where eligible students majoring in biology complete up to 12 graduate credits in the M.S.Ed in Biology Education Inclusive Generalist (5-12) program.

Rationale:

Please explain the reasons for these proposed changes. If applicable, consider how the proposed changes address:

- The University's Strategic Plan
- The Strategic Plan for Equity, Diversity, and Inclusion
- Institutional Student Learning Outcomes
- Student recruitment and demand
- Student retention and success (including time to degree)
- Regional and state workforce needs
- PPR, assessment, and/or accreditation
- (For online programs) any benefits and concerns particular to online delivery

Paths to Adolescence Teacher Certification in Biology at SUNY Brockport
Currently the Biology department runs two undergraduate majors that prepare students for initial teaching certification: a B.S. in Biology Adolescence Education (single-cert) and a B.S. in Biology Adolescence Inclusive Education (dual-cert). Both majors are credit-heavy and the sequencing of coursework has made it challenging for students to complete in a timely fashion, particularly since a graduate degree is still required of NYS teachers to obtain professional certification within 5 years.

Very Few Students Complete the Existing Undergraduate Degree Programs

Most students who drop the undergraduate biology pathway to initial certification still intend to pursue a career in teaching but find pursuing a B.S. in Biology instead followed by completion of the 48-credit M.S. in Biology Education program quicker and more cost-effective. Furthermore, while the B.S. in Biology is on the SUNY-Transfer Path, the B.S. in Biol Adol Ed is not, and transfer students often do not come into Brockport with an equivalency of the first two years of that degree program. We are in dire need of science teachers in the region, and we want to do everything we can to lessen the burdens of our students as they pursue this career at SUNY Brockport.

Brief Summary of the Proposed Accelerated Pathway

We are proposing an accelerated pathway that streamlines two existing programs at SUNY Brockport:

- B.S. in Biology plus
- M.S.Ed in Biology Education Inclusive Generalist (5-12)

There are no proposed course changes to either degree program. Instead, we will take advantage of an existing Brockport policy Accelerated Pathway/Combined Degree Credit Limit Policy Adopted 05-16-2022 via Senate Resolution 2021-2022 #25.

Students must continue to abide by all existing academic expectations and professional regulations for both the B.S. in Biology and M.S.Ed in Biology Education Inclusive Generalist (5-12) programs.

Proposed Accelerated Option for Teaching Certification in Biology

Undergraduate Biology majors with a minimum 3.00 overall GPA would qualify for application to the M.S.Ed Accelerated Pathway via Brockport’s Graduate Admissions Application in the Spring of the Junior Yr and upon acceptance would qualify for a B.S./M.S. “senior year”. We propose advising 12 credits of EDI graduate coursework to be used to meet elective credits counting towards the 120 credits required for a B.S. degree that will also count for degree requirements in the M.S.Ed in Biology Adolescence Inclusive Education. This proposal suggests that the four appropriate courses (that all apply to the M.S.Ed. Biology Education Inclusive Generalist program) include:

- EDI 513 Introduction to Special Education
- EDI 530 Education & Society
- EDI 531 Teaching Literacy in Middle & High School Content Areas I (B)
- EDI 532 Teaching Literacy in Mid/High School Content Area II (B)

The accelerated pathway should provide an option that saves money and time among adolescent teacher education candidates who want to complete a traditional undergraduate major while also beginning their pathway to teacher preparation. Given ongoing teacher shortages in STEM fields, an accelerated pathway could be a useful tool to expand the number of certified teachers available to local school districts.

Example Savings:

1. Accelerated path, B.S. in [science] then 48-credit M.S.Ed. in Adolescence Inclusive Science Education
2. Teacher candidates complete **12 EDI credits** as undergraduates
3. Two options for graduate program completion:

- a. M.S.Ed. can be completed in **18 months** (full time) *or* as an additional option
- b. Candidates can complete 12 additional credits and then be recommended to apply for a Certificate of Internship if qualified

Cost: 36 graduate credits (\$471/cr. tuition + \$66.63/cr. fees) = **\$19,354.68** (savings of \$6,451.56 by taking 12 hours as UG)

Proposed program:

For program revisions, please provide a side-by-side tabular comparison of the current and proposed programs, indicating the key changes. For new programs, please provide a complete tabular description.

All proposals must identify all prerequisites and include the total credit-hours for each course, each part of the program, and the overall program itself. Also please note when any courses in the program includes a minimum passing grade that is different from the college-wide policy. Optionally, you may include a curriculum map and/or sample four-year plan to demonstrate the coherence and feasibility of the program.

For online programs, please specify the percent of the program that could be completed online (75%, 100%, etc.) and whether it is a transfer-only online degree completion program.

There are no changes to the total credits of either program. We will be advising students to take four graduate level EDI courses as part of the 120 credits needed for the undergraduate biology degree as per the 4-Yr Plan outlined below.

Admission requirements & Exit requirements (If not applicable, please write NA):

Undergraduate Biology majors with a minimum 3.00 overall GPA would qualify for application to the M.S.Ed Accelerated Pathway via Brockport's Graduate Admissions Application in the Spring of the Junior Yr and upon acceptance would qualify for a B.S./M.S. "senior year".

Program requirements (If not applicable, please write NA):

Accelerated Pathway 4 year (UG) + 18 mo (Grad) plan		
B.S. Biology → M.S.Ed. Biology Education Inclusive Generalist (5-12)		
B.S. in Biology Degree (120 credits)		
Semester 1 (15 cr)	Semester 2 (15 Cr)	Accelerated Path Proposal
<ul style="list-style-type: none"> • ENG112 College Composition • GEP100 Academic Planning Seminar • BIO201 (L) General Biology I • CHM205 (L) General Chemistry I • MTH111 College Algebra 	<ul style="list-style-type: none"> • MTH122 (M) Precalculus • BIO202 General Biology II • CHM206 General Chemistry II • Gen Ed (R) Any Language 111-level 	NO Changes
Semester 3 (15 Cr)	Semester 4 (16 Cr)	Accelerated Path Proposal
<ul style="list-style-type: none"> • MTH201 Calculus or MTH243 Statistics • CHM305 Organic Chemistry I • BIO302 Genetics • Any Elective 	<ul style="list-style-type: none"> • BIO310 Biological Chemistry • CHM306 Organic Chemistry I or CHM313 Quant Anal Chem • Gen Ed (F) Fine Arts course • Gen Ed (D) DEIS course 	ENG210 Creative Writing <i>recommended</i> for F-credit

	<ul style="list-style-type: none"> Gen Ed (W) Gender Perspectives course 	
Semester 5 (14 Cr)	Semester 6 (16 Cr)	Accelerated Path Proposal
<ul style="list-style-type: none"> BIO315 Cell Biology A 300-level BIO lab elective BIO311 Biological Chemistry Lab Gen Ed (S) Social Science course Gen Ed (O) World History & Global Awareness course 	<ul style="list-style-type: none"> A 300-level BIO elective Gen Ed (H) Humanities course Gen Ed (V) US History & Civic Engagement course Gen Ed (I) Contemporary Issues course Gen Ed (Y) Oral Communication course 	BIO303 Ecology <i>recommended</i> as a 300-level BIO elective. HST130, 140, 201 or 202 <i>recommended</i> for O-credit HST110, 120, 211, 212 <i>recommended</i> for V-credit
Semester 7 (15 Cr)	Semester 8 (15 Cr)	Accelerated Path Proposal
<ul style="list-style-type: none"> A 400-level BIO lab elective PHS205 General Physics I BIO498 Senior Seminar Any Elective Any Elective 	<ul style="list-style-type: none"> A 400-level BIO lab elective A 400-level BIO lecture elective PHS210 General Physics II Any Elective Any Elective 	BIO411 Evolution <i>recommended</i> as a 400-level BIO lecture elective. Replaces 12 credits of "Any Elective" with ALL of the following: <ul style="list-style-type: none"> ED1530 Education & Society ED1531 Teaching Literacy Mid/HS I ED1513 Intro to Special Ed ED1532 Teaching Literacy Mid HS II
Accelerated Path M.S. Ed. In Adolescence Inclusive Biology (48 credits)		
Semester 9 (9 cr + 50 hours Field Exp)	Semester 10 (9 cr + 50 hours Field Exp)	Accelerated Path Proposal
<ul style="list-style-type: none"> ED1547 Incl Middle Level Teaching Science ED1601 Diversity in Education ED1603 Educational Assessment and Evaluation 	<ul style="list-style-type: none"> ED1617 Adv Methods in Science ED1623 Reading Research in Adol Science ED1567 Teaching Science Inclusively 	Shortens timeline to graduate degree by one semester since 12 credits (ED1513, 530, 531 and 532) have already been completed as part of undergraduate program.
Summer 10.5 (6 cr. + 50 hours Field Exp)** <ul style="list-style-type: none"> ED1514 Methods in Special Ed ED1519 Assessment in Spec Ed 	Semester 11 (12 cr + FT student teaching)** <ul style="list-style-type: none"> ED1793 Seminar in Science Ed ED1575 Practicum & Seminar in Adol Inclusive Ed 	
**Note – summers are not guaranteed – we've been running both of these courses for the last two summers in partnership with Monroe 2 BOCES and their Extended School Year (ESY) program. If that doesn't continue for some reason, we'd shift "Summer 10.5" to Semester 11 (fall) along with EDI 793... and these teacher candidates would student teach in Semester 12 (spring).		

Impact on transfer students:

Is the program part of a seamless transfer arrangement? (Please check):

Yes No

For both seamless-transfer and non-seamless-transfer programs, please describe how the proposed changes might impact the recruitment and degree-completion of transfer students and steps to be taken to prevent negative outcomes.

A SUNY Seamless Transfer Agreement already exists for the B.S. in Biology.

Course additions and/or revision(s):

If the proposal entails new or substantially revised courses, please summarize those changes here and append a Course Description Form for any new or substantially revised course. Note that Course Description Forms are for Senate deliberation. Approved proposals may subsequently require Course Registration Forms through the Office of Registration and Records.

None

Resource implications and estimated costs (such as personnel, supplies, labs, or technology):

No budget implications; this pathway is built from existing programs. If anything it may reduce oversight load for the Biology Department by reducing advising pressures at the undergraduate level.

Stakeholder consultation:

Please list the departments, programs, or offices that are likely to be impacted by the proposed changes and any relevant review committees. Please note with whom you consulted in preparing the proposal, from whom letters of commentary were solicited, the outcomes of those consultations and letter-requests, and your responses to those findings:

- Positive department support conveyed by Michel Pelletier, Chair of Biology (letter included)
- Positive EHD department support and approval by the Adolescence Committee of EHD conveyed by Chris Wilkens, Assoc Chair EHD (letter included)
- Positive administrative support conveyed by Monica Brasted, Interim Dean of the School of Arts and Science
- Positive administrative support conveyed by Thomas Hernandez, Dean, School of Education, Health & Human Services
- Positive Grad Studies support conveyed by Michael Harrison, Director of the Center for Graduate Studies

Other supporting information (if applicable):

Attachments:

College Senate Course Description Form(s) (for any new or substantially revised courses)

Letters of Support from Chair(s) and Dean

Letters of Commentary from Departments, Programs, Offices, and Committees (as applicable)



Department of Biology
350 New Campus Drive
Brockport, New York 14420

Brockport, NY, June 15, 2023

SUNY Brockport

College Senate Curriculum Committee

Re: Letter of support for the Accelerated pathway, B.S. in Biology to M.S.Ed. Biology Education Inclusive Generalist (5-12) proposal

Dear members of the College Senate,

As the Chair of the Biology department, I would like to express my strong support for the the Accelerated pathway, B.S. in Biology to M.S.Ed. Biology Education Inclusive Generalist (5-12) proposal put forward by Laurie Cook and Chris Wilkens. As elegantly laid out in the proposal, the accelerated pathway will enable provide adolescence teacher education candidates to save money and time. In addition, students in graduate-level teacher education programs will be able to begin work as teachers under a NYSED-issued "Certificate of Internship" once they complete $\geq 50\%$ of their program (with a few other requirements).

Sincerely,

Michel Pelletier, Ph.D.
Associate Professor and Chair
Department of Biology
SUNY Brockport



**Department of Education
and Human Development**
350 New Campus Drive
Brockport, New York 14420-2958
P: (585) 395-2205 | F: (585) 395-2172
brockport.edu

12 October 2023

Dear Senate Undergraduate Curriculum Committee:

On behalf of the Department of Education & Human Development, I am pleased to support the proposal submitted by the Department of Biology titled "Accelerated pathway, B.S. in Biology to M.S.Ed. Biology Education Inclusive Generalist (5-12)."

The proposed pathway would enable a jump-start to graduate teacher education and eventual NYS certification, speeding time to degree and saving teacher candidates significant tuition dollars. As well, the existence of an accelerated pathway may prove to be a powerful recruitment tool for potential Brockport students. The proposed program should help us recruit and prepare more science teachers at a time of clear need, and make our programs significantly more transfer-student friendly.

This proposal was reviewed and approved by the Adolescence Committee of the Department of Education & Human Development on October 10th, 2023. It was then reviewed and approved by the full Department of Education & Human Development on October 11th, 2023.

Thank you for your consideration, and please let me know your questions!

Dr. Christian P. Wilkens

Associate Chair and Associate Professor of Education

cc: Janka Szilágyi, Chair and Professor of Education
Carol Wade, Associate Professor of Education, Adolescence Committee Co-Chair
Cody Miller, Associate Professor of Education, Adolescence Committee Co-Chair



School of Arts and Sciences
350 New Campus Drive
Brockport, New York 14420-2983
P: (585) 395-5806 | F: (585) 395-5808
brockport.edu

August 10, 2023

College Senate
SUNY Brockport
Brockport, NY 14420

Dear College Senate:

I have reviewed and support the proposal to create an accelerated pathway for Biology Adolescence Education, proposed by Dr. Laurie Cook, Biology, and Dr. Chris Wilkens, Education and Human Development. This proposal allows interested undergraduate students to work in a timely way toward becoming high school biology teachers by completing an undergraduate degree in Biology and up to 12 graduate credits in the M.S.Ed. in Biology Education Inclusive Generalist (5-12) program. This accelerated pathway provides clear direction for students wishing to pursue this option, which will be particularly helpful for transfer students. The accelerated pathway will not increase resources, or the number of credits required by students.

Sincerely,

Dr. Monica Brasted
Interim Dean, School of the Arts and Sciences



School of Education, Health
and Human Services
350 New Campus Drive
Brockport, New York 14420-2957
P: (585) 395-2510 | F: (585) 395-2172
brockport.edu

October 24, 2023

To Whom It May Concern:

I offer my support for the proposal of an accelerated pathway, B.S. in Biology to MSED Biology Education Inclusive Generalist (5-12). This accelerated pathway will not require additional resources. It will appeal to prospective students that are interested in becoming biology teachers as well as decrease their time to degree and the cost of their graduate education.

Sincerely,

Thomas J. Hernández, EdD, LMHC
Dean, School of Education, Health & Human Services



Center for
Graduate Studies
SUNY BROCKPORT

September 19, 2023

Dear University Senate,

Please accept this letter in support of the following proposed Accelerated Pathways:

- UG BS in Biology and MEd Biology Education Inclusive Generalist (5-12)
- UG BS in Chemistry and MEd Chemistry Education Inclusive Generalist (5-12)
- UG BS in Physics and MEd Physics Education Inclusive Generalist (5-12)

Each of these proposed accelerated pathways creates an opportunity for the university to attract both new undergraduate and graduate students – and offers those students enrolled in such a pathway an array of exceptional benefits. From an enrollment management perspective these proposals have the potential grow our enrollments and therefore positively benefit the institution. The creation of these pathways will also open doors to new and exciting opportunities for our student population, thereby supporting student success.

As such, I fully endorse these proposals and each participating department in their efforts to create these accelerated pathways.

Sincerely,

Michael Harrison
Director
Center for Graduate Studies
SUNY Brockport
mharriso@brockport.edu
585-395-5456