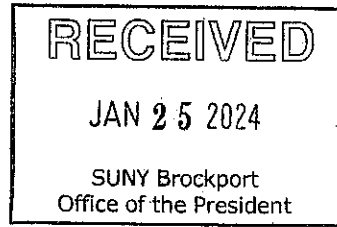


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 Brockport, New York 14420
 585-395-2586 * 585-395-2006 (fax)
 senate@brockport.edu
 brockport.edu/collegesenate

Resolution **2023-24 #11**
College Senate

Supersedes Res #: _____



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 Chemistry to MS Ed Chemistry Education Inclusive Generalist (5-12) (#22_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: 9/25/24
 (Dr. Eileen Daniel, Senior Vice Provost, The College at Brockport)

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

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>	22_23-24UCGC
This Proposal Replaces Resolution	
Revision Date(s)	
Anticipated Effective Date:	

Proposal title

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

Proposal summary

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

Proposer information

Dawn Lee, Chemistry & Biochemistry, dlee@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:

Departments of Chemistry & Biochemistry and Education & Human Development

Program:

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

Proposal summary (Same as on the cover page):

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

Rationale:

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

- The College'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 Chemistry at SUNY Brockport

Currently the Chemistry & Biochemistry department runs two undergraduate majors that prepare students for initial teaching certification: a B.S. in Chemistry Adolescence Education (single-cert) and a B.S. in Chemistry Adolescence Inclusive Education (dual-cert). Both 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 Chemistry pathway to initial certification still intend to pursue a career in teaching but find pursuing a B.S. in Chemistry instead followed by completion of the 48-credit M.S. in Chemistry Education program quicker and more cost-effective. Furthermore, 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 Chemistry plus
- M.S.Ed in Chemistry 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.

There are no proposed course changes to either degree program. Instead, we will take advantage of an existing Brockport policy <https://www2.brockport.edu/live/profiles/5200-taking-graduate-courses-at-the-undergraduate-level>.

Eligible undergraduate students, matriculated at SUNY Brockport but not enrolled in either an accelerated pathway program or a combined degree program, may take up to nine credits of graduate coursework at SUNY Brockport (but no more than six credits of graduate coursework in a single semester).

Eligible undergraduate students may take 500 or 600-level courses if they:

- 1. *Have successfully completed 90 undergraduate credits*
- 1. *Have successfully completed at least 12 credits at Brockport in their current matriculated status*
- 1. *Have a cumulative Brockport undergraduate GPA of at least 3.00*
- 1. *Obtain the permission of 1) the course instructor and 2) the University Registrar*

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

Accelerated Paths are an Alternative to SUNY's Former Combined Degree Program Option

SED will no longer register combined programs, the alternative has been a locally governed accelerated pathway linking either an undergraduate/graduate program or two undergraduate programs. We recently determined that SED did not clarify financial aid implications that can occur under certain circumstances. To avoid these concerns, we need to design or amend accelerated pathways with the following criteria:

Permitted	Not Permitted
Up to 12 graduate credits	Combined program exceeding 126 credits towards the UG degree
Using graduate courses to meet UG electives as long as electives are	Combined programs which eliminate courses and/or change SED registered UG or G requirements*

included in the SED-registered program.

Using swing courses to double count towards UG/G degree requirements

*These will have to be registered with SUNY/SED

Examples: A student is in an SED-registered program totaling 123 credits and has completed 120 credits to date. In the student's last semester they only need one course to finish their UG degree and to remain FT, they take 3 graduate credits. They would not be aid-eligible for these three courses.

An accelerated pathway BUS/MBA alters the UG program by allowing MBA 642 Operations and Project Management instead of BUS 475 Strategic Management, altering the UG degree requirements

Proposed Accelerated Option for Teaching Certification in Chemistry

Undergraduate Chemistry majors with a minimum 3.00 overall GPA would qualify for application to the MSED 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 Chemistry Adolescence Inclusive Education. This proposal suggests that the four appropriate courses (that all apply to the M.S.Ed. Chemistry 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 adolescence 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 useful tools to expand the number of certified teachers available to local school districts.

Example Savings:

- Accelerated path, B.S. in [science] then 48-credit M.S.Ed. in Adolescence Inclusive Science Education
- Teacher candidates complete **12 EDI credits** as undergraduates
- Two options for graduate program completion:
 - M.S.Ed. can be completed in **18 months** (full time) *or*
 - Candidates can complete 12 additional credits and then start teaching under Certificates of Internship

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- 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 Chemistry 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. Chemistry → M.S.Ed. Chemistry Education Inclusive Generalist (5-12)		
B.S. in Chemistry Degree (120 credits)		
Semester 1 (15 cr)	Semester 2 (14 Cr)	Accelerated Path Proposal
<ul style="list-style-type: none"> • CHM205 General Chemistry I (L) • MTH122 College Algebra (M) • ENG112 College Composition (Q) • Gen Ed (R) Any Language 111-level • GEP100 Academic Planning Seminar 	<ul style="list-style-type: none"> • CHM206 General Chemistry II • MTH201 Calculus I • Gen Ed (F) Fine Arts course • Gen Ed (D) DEIS course 	ENG210 Creative Writing <i>recommended</i> for F-credit
Semester 3 (15 Cr)	Semester 4 (14 Cr)	Accelerated Path Proposal
<ul style="list-style-type: none"> • CHM302 Inorganic Chemistry I • MTH201 Calculus II • PHS235 College Physics I • Any Elective 	<ul style="list-style-type: none"> • CHM303 Analytical Chemistry I • PHS240 College Physics II • Gen Ed (Y) Oral Communication • Gen Ed (W) Gender Perspectives course 	NO Changes
Semester 5 (17 Cr)	Semester 6 (14 Cr)	Accelerated Path Proposal

<ul style="list-style-type: none"> • CHM305 Organic Chemistry I • CHM405 Physical Chemistry I • CHM408 Physical Chemistry Lab I • Gen Ed (S) Social Science course • Gen Ed (O) World History & Global Awareness course • Any Elective 	<ul style="list-style-type: none"> • CHM306 Organic Chemistry II • CHM406 Physical Chemistry II • CHM409 Physical Chem Lab II • Gen Ed (V) US History & Civic Engagement course • Any Elective 	<p>HST130, 140, 201 or 202 <i>recommended for O-credit</i></p> <p>HST110, 120, 211, 212 <i>recommended for V-credit</i></p> <p>ECN100 <i>recommended for S-credit</i></p>
Semester 7 (15 Cr)	Semester 8 (16 Cr)	Accelerated Path Proposal
<ul style="list-style-type: none"> • CHM400 Seminar I • CHM301 Chemical Safety • 300- or 400-level CHM lecture elective • 300- or 400-level CHM lab elective • Any Elective • Any Elective • Any Elective 	<ul style="list-style-type: none"> • CHM401 Seminar II • Gen Ed (H) Humanities course • Gen Ed (I) Contemporary Issues course • Any Elective • Any Elective • Any Elective 	<p>Replaces 12 credits of "Any Elective" with ALL of the following:</p> <ul style="list-style-type: none"> • EDI530 Education & Society • EDI531 Teaching Literacy Mid/HS I • EDI513 Intro to Special Ed • EDI532 Teaching Literacy Mid HS II
Accelerated Path M.S. Ed. in Adolescence Inclusive Chemistry (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"> • EDI547 Incl Middle Level Teaching Science • EDI601 Diversity in Education • EDI603 Educational Assessment and Evaluation 	<ul style="list-style-type: none"> • EDI567 Teaching Science Inclusively • EDI617 Adv Methods in Science • EDI623 Reading Research in Adol Science 	<p>Shortens timeline to graduate degree by one semester since 12 credits (EDI513, 530, 531 and 532) have already been completed as part of undergraduate program.</p>
<p>Summer 10.5 (6 cr. + 50 hours Field Exp)**</p> <ul style="list-style-type: none"> • EDI514 Methods in Special Ed • EDI519 Assessment in Spec Ed 	<p>Semester 11 (12 cr + FT student teaching)</p> <ul style="list-style-type: none"> • EDI793 Seminar in Science Ed • EDI575 Practicum & Seminar in Adol Inclusive Ed 	
<p>**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).</p>		

Impact on transfer students:

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

X 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 Chemistry

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.

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 Markus Hoffmann, Chair of Chemistry & Biochemistry (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)



**SUNY
BROCKPORT**

11/1/2023

To whom it may concern,

I have inspected the Senate proposal for an accelerated pathway to complete a B.S. in Chemistry and a M.S.ED. Chemistry Education Inclusive Generalist (5-7). With this letter, I am expressing the support of the Department of Chemistry and Biochemistry for this proposal.

Respectfully,

Markus M. Hoffmann, Professor, Chair, Department of Chemistry and Biochemistry



**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 Chemistry titled "Accelerated pathway, B.S. in Chemistry to M.S.Ed. Chemistry 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
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August 28, 2023

College Senate
SUNY Brockport
Brockport, NY 14420

Dear College Senate:

I have reviewed and support the proposal to create an accelerated pathway for Chemistry Adolescence Education, proposed by Dr. Dawn Lee, Chemistry & Biochemistry, and Dr. Chris Wilkens, Education and Human Development.

This proposal allows interested undergraduate students to work in a timely way toward becoming high school chemistry teachers by completing an undergraduate degree in Chemistry and up to 12 graduate credits in the M.S.Ed. in Chemistry 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, and will reduce students' time and costs in advancing their career goals. The accelerated pathway will not require additional resources or increase 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 Chemistry to MSED Chemistry Education Inclusive Generalist (5-12). This accelerated pathway will not require additional resources. It will appeal to prospective students that are interested in becoming chemistry 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



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