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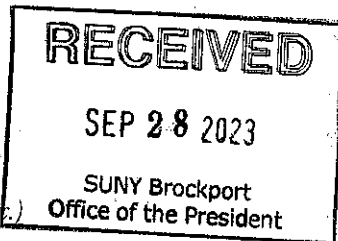
Resolution 2022-23 #63
 College Senate

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: **Physics Adol Incl Ed** (#72_22-23UC)

Implementation Effective Date**: _____

Signed: Cathy Houston-Watson Date: 9/18/23
 (Dr. Jason Morris, 2022-2023 College Senate President)

Signed: Eileen Daniel Date: 9/19/23
 (Dr. Eileen Daniel, Vice Provost, The College at Brockport)

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

MMA

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

TO: Dr. Jason Morris, 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: Heidi Macpherson Date: 10/2/23
 (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

RESOLUTION 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>	72_22-23UC
This Proposal Replaces Resolution	
Revision Date(s)	
Anticipated Effective Date:	

Proposal title

Revisions to the Physics Adolescence Inclusive Education (PHSI) major

Proposal summary

The major in Physics Adolescence Inclusive Education will be revised in order to:

- 1) bring the Physics content courses in line with those in the recently revised Physics major, and
- 2) align with the new General Education requirements.

Proposer information

Eric Monier, Physics, x5589, emonier@brockport.edu

Senate Office use only

	Forwarded To	Dates Forwarded
<input type="checkbox"/> Executive Committee		
<input type="checkbox"/> Standing Committee	Standing Committee	
<input type="checkbox"/> Equity, Diversity and Inclusion Committee		5/8/2023
<input type="checkbox"/> Engagement & Enrollment Planning & Policies	Executive Committee	
<input type="checkbox"/> Faculty & Professional Staff Policies	Senate	
<input type="checkbox"/> General Education & Curriculum Policies	Passed GED's go to Vice Provost	
<input type="checkbox"/> Graduate Curriculum & Policies	College President	
<input type="checkbox"/> Student Policies	OTHER	
<input checked="" type="checkbox"/> Undergraduate Curriculum & Policies	REJECTED -WITHDRAWN	

Notes (Senate Office use only):

College Senate Curriculum Proposal Template

Please check:

Undergraduate Graduate Combined Degree Program Accelerated Pathway

Sponsoring department:

Physics

Program:

Physics Adolescence Inclusive Education (PHSI)

New or Revised Program (Please check):

New program Revised or restructured program

Proposal title (Same as on the cover page):

Revisions to the Physics Adolescence Education (PHSI) major

Proposal summary (Same as on the cover page):

The major in Physics Adolescence Inclusive Education will be revised in order to:
1) bring the Physics content courses in line with those in the recently revised Physics major, and
2) align with the new General Education requirements.

Rationale:

The recent (2020) revision to the Physics major included several changes to the curriculum that also affect the Physics Adolescence Education (PHSE) and Adolescent Inclusive Education (PHSI) majors. Those changes included:

- 1) splitting the 2-credit PHS 325 Intermediate Laboratory into two 1-credits labs, PHS 308 Electronics Laboratory and PHS 329 Optics & Modern Physics Laboratory;
- 2) relaxing the sequence of upper division courses so that they can be offered every other year;
- 3) adding PHS 415 Thermal Physics as a core course; and
- 4) renaming and/or renumbering several courses

Since Physics Adolescence Inclusive Education majors take a subset of the Physics courses taken by the Physics majors, this proposal adjusts the requirements for the PHSI program to align with the courses now being offered by the Department.

The pedagogy content of the PHSI major remains unchanged, however EDI 430 Education & Society no longer carries the local Perspectives on Gender (W) General Education code. Students will need to pair this requirement with another General Education course in the PHSI major to remain below 126 credits.

In addition, the Social Studies cognates required for the Students with Disabilities (SWD) Generalist (7-12) certification are being revised to add several additional courses and incorporate the new General Education requirements for US History and Civic Engagement (V) and World History and Global Awareness (O).

The total number of credits - and the breakdown into content, pedagogy, general education and cognate credits - will remain the same.

Proposed program:

A table comparing the current and proposed versions of the PHSI program appears below, followed by a table of pre/co-requisites for the Physics content.

Physics Adolescence Education (PHSI) major							
Current				Proposed			
Course	Title	cr	GE	Course	Title	cr	GE
Physics Content Core							
PHS 235	Physics I	4	L	PHS 235	Physics I	4	L
PHS 240	Physics II	4		PHS 240	Physics II	4	
PHS 307	Physics III	3		PHS 307	Physics III	3	
PHS 325	Intermediate Physics Laboratory	2		PHS 308	Electronics Laboratory	1	
				PHS 329	Optics & Modern Physics Lab	1	
PHS 328	Modern Physics	3		PHS 328	Modern Physics	3	
PHS 332	Math Methods of Physics	3		PHS 332	Int. Mechanics & Math Methods	3	
PHS 345	Advanced Physics Lab I	1		PHS 345	Advanced Physics Lab	1	
PHS 350	Advanced Physics Lab II	1		PHS 350	Instrumentation Lab	1	
PHS 403	Physics Project Seminar I	1		PHS 403	Physics Project Seminar I	1	
PHS 368	Electricity & Magnetism	3		PHS 419	Electricity & Magnetism	3	
PHS 411	Quantum Mechanics	3		PHS 411	Quantum Mechanics	3	
PHS 353	Classical Mechanics	3		PHS 423	Advanced Mechanics OR	3	
				PHS 415	Thermal Physics		
Physics Content Total		31		Physics Content Total		31	
Math & Science Co-requisites							
MTH 201	Calculus I	4	M	MTH 201	Calculus I	4	M
MTH 202	Calculus II	4		MTH 202	Calculus II	4	
MTH 203	Calculus III	4		MTH 203	Calculus III	4	
MTH 255	Differential Equations	3		MTH 255	Differential Equations	3	
CHM 205	College Chemistry I	4	L	CHM 205	College Chemistry I	4	
ESC 251	Scientific Computing	3		ESC 251	Scientific Computing	3	
Math & Science Total		22		Math & Science Total		22	
Pedagogy Core							
EDI 413	Introduction to Special Education	3		EDI 413	Introduction to Special Education	3	
EDI 430	Education & Society	3	YIW	EDI 430	Education & Society	3	YI
EDI 459	Adolescent Development	3		EDI 459	Adolescent Development	3	
Phase I							

EDI 431	Teaching Literacy in Middle & High School Content Areas I	3		EDI 431	Teaching Literacy in Middle & High School Content Areas I	3	
EDI 447	Inclusive Middle Level Teaching in Science	3		EDI 447	Inclusive Middle Level Teaching in Science	3	
PRO 430	Adolescence Field Experience I	1		PRO 430	Adolescence Field Experience I	1	
Phase II							
EDI 432	Teaching Literacy in Middle & High School Content Areas II	3		EDI 432	Teaching Literacy in Middle & High School Content Areas II	3	
EDI 467	Teaching Science Inclusively	3		EDI 467	Teaching Science Inclusively	3	
PRO 431	Adolescence Field Experience 2	1		PRO 431	Adolescence Field Experience 2	1	
Phase III							
EDI 331	Adol. Classroom Management	1		EDI 331	Adol. Classroom Management	1	
EDI 414	Special Education Methods	3		EDI 414	Special Education Methods	3	
EDI 419	Assessment Special Ed.	3		EDI 419	Assessment Special Ed.	3	
PRO 432	Adolescence Field Experience 3	1		PRO 432	Adolescence Field Experience 3	1	
Phase IV Student Teaching							
EDI 464	Seminar: Adolescent Incl. Education	3		EDI 464	Seminar: Adolescent Incl. Education	3	
PRO 433	Practicum: Adol. Incl. Education	9		PRO 433	Practicum: Adol. Incl. Education	9	
Pedagogy Total		43		Pedagogy Total		43	
General Education and SWD cognate requirements not covered above							
GEP 100	Academic Planning Seminar	1		GEP 100	Academic Planning Seminar	1	
English Language Arts							
ENG 112	College Composition	3	Q	ENG 112	College Composition	3	Q
ENG 210	Creative Writing	3	P	ENG 210	Creative Writing	3	F
World Language							
2 courses	World Language (111 & 112 level)	6	R	2 courses	World Language (111 & 112 level)	6	R
Historical and Social Sciences							
1 course	HST 130 or 201	3	H, O	1 course	HST 130, 131, 201 or 202	3	O
1 course	HST 110	3	D, S	1 course	HST 110, 120, 211, or 212	3	V
Remaining General Education							
1 courses	Humanities	3	H	1 course	Humanities	3	H
1 course	Social Science	3	S	1 course	Social Science	3	S
1 course	Fine Arts	3	F, P	1 course	Diversity	3	D
				1 course	Gender Perspectives (pair w/D,H,S)	0	W
General Education and Cognate Total		28		General Education and Cognate Total		28	
Total credit hours		124		Total credit hours		124	

Pre- and co-requisites for the updated Physics content:

PHSI subject content		Pre-req	Co-req
Course	Cr.		
PHS 235 Physics I	4	MTH 122 or HS achievement	MTH 201
PHS 240 Physics II	4	PHS 235	MTH 202
PHS 307 Physics III	3	PHS 240	MTH 203
PHS 308 Electronics Laboratory	1	PHS 240, ENG 112	-
PHS 328 Modern Physics	3	PHS 307, MTH 203	MTH 255, PHS 332
PHS 332 Int. Mechanics and Math Methods	3	PHS 307, MTH 203	MTH 255
PHS 329 Modern Physics and Optics Laboratory	1	PHS 307, ENG 112	MTH 328

PHS 345 Advanced Laboratory	1	PHS 329	-
PHS 350 Instrumentation Laboratory	1	PHS 329	-
PHS 403 Physics Seminar I	1	-	-
PHS 411 Quantum Mechanics	3	PHS 332, MTH 255	-
PHS 415 Thermal Physics	3	PHS 332, MTH 255	-
PHS 419 Electricity & Magnetism	3	PHS 332, MTH 255	-
PHS 423 Advanced Mechanics	3	PHS 332, MTH 255	-
MTH 201 Calculus I	4	MTH 122 or HS achievement	-
MTH 202 Calculus II	4	MTH 201	-
MTH 203 Calculus III	4	MTH 202	-
MTH 255 Differential Equations	3	MTH 202	-
CHM 205 General Chemistry I	4	-	MTH 111

Additional requirements:

Non-credit Bearing Requirements (Workshops)	Non-credit Bearing Requirements (Workshops)
<ul style="list-style-type: none"> Identifying and Reporting Child Abuse and Maltreatment: Mandated Reporter Training (CAD) School Violence Prevention and Intervention Workshop (SAVE) Autism Workshop [included in EDI 413] Harassment and Bullying Prevention Certification Training (DASA) 	<ul style="list-style-type: none"> Identifying and Reporting Child Abuse and Maltreatment: Mandated Reporter Training (CAD) School Violence Prevention and Intervention Workshop (SAVE) Autism Workshop [included in EDI 413] Harassment and Bullying Prevention Certification Training (DASA)
Additional Degree Requirements	Additional Degree Requirements
Maintain ≥ 2.0 cumulative Brockport GPA	Maintain ≥ 2.0 cumulative Brockport GPA
Must earn a grade of C or better in all PHS, MTH, CHM, EDI, PRO and modern language courses	Must earn a grade of C or better in all PHS, MTH, CHM, EDI, PRO and modern language courses
Demonstrate the dispositions necessary in the teaching profession	Demonstrate the dispositions necessary in the teaching profession

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.

N/A

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

Unchanged

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

N/A

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.

The proposed change will have no effect on transfer students. Students who complete the Adolescence Education transfer path in the discipline of Physics will be able to complete the program in two years.

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.

N/A

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

None.

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:

Education & Human Development

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
Physics
SUNY BROCKPORT

April 12, 2023

The Department of Physics fully supports this proposal to revise the Physics Adolescence Inclusive Education major.

Sincerely,

Eric M. Monier

Eric Monier
Professor & Chair
Department of Physics



SUNY BROCKPORT

School of Arts and Sciences
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brockport.edu

10 April 2023

Dr. Jason Morris
President
College Senate

Dear Dr. Morris,

Through this letter, I am letting you know that the proposals that Dr. Eric Monier is submitting to the Senate on behalf of the Department of Physics to revise the Physics Adolescence Inclusive Education major and the companion Physics Adolescence Education major have my support.

As stated in the proposal, what necessitated the revision of the former is the new General Education Program (GEP) scheduled to take effect in the fall of 2023. Given that the latter shares its content core with the former, the department is revising the latter as well. In addition, the department slightly modified the content core of both majors.

I thank Dr. Monier and his colleagues for the time and effort they devoted to prepare these proposals.

Sincerely,

A handwritten signature in cursive script that reads 'Jose Maliekal'.

Jose Maliekal
Dean



**SUNY
BROCKPORT**

**Department of Education
and Human Development**
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**April
2023**

To whom it may concern:

I have reviewed the Senate proposal from the Department of Physics titled "Revisions to the Physics Adolescence Inclusive Education (PHSI) major."

The rationale is sound and the updates appropriate to meet both General Education revisions and NYSED certification requirements for Students with Disabilities, including six credits in social studies. I support the revision, and would be glad to answer any questions that may arise along the way!

A handwritten signature in black ink, appearing to read 'Christ P. Wilkens', with a horizontal line extending to the right.

Dr. Christian P. Wilkens
Chair and Associate Professor of Education

Guptill, Amy (aguptill)

To: Guptill, Amy (aguptill)
Subject: RE: Two more programs seeking small changes to Inclusive Adol Ed programs

From: Wade, Carol (cwade) cwade@brockport.edu
Sent: Friday, April 21, 2023 2:56 PM
To: Guptill, Amy (aguptill) aguptill@brockport.edu; Ashton, Jennifer (jashton) jashton@brockport.edu
Subject: Re: Two more programs seeking small changes to Inclusive Adol Ed programs

Hi Amy,
The Adolescence Committee also approves these changes.

Best regards,
Carol

Carol H. Wade, Ph.D.
Associate Professor
Secondary Mathematics Education
State University of New York (SUNY) Brockport
298 A. W. Brown Building
Office: 585-395-5569
cwade@brockport.edu



From: Ashton, Jennifer (jashton) <jashton@brockport.edu>
Sent: Friday, April 21, 2023 2:21 PM
To: Guptill, Amy (aguptill) <aguptill@brockport.edu>; Wade, Carol (cwade) <cwade@brockport.edu>
Subject: Re: Two more programs seeking small changes to Inclusive Adol Ed programs

Hello Amy ,

Thank you for sharing these proposals with us. The Inclusive/Special Education Committee approves of them.

Best,

Jennifer

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From: Guptill, Amy (aguptill) <aguptill@brockport.edu>

Sent: Friday, April 21, 2023 1:29 PM

To: Ashton, Jennifer (jashton) <jashton@brockport.edu>; Wade, Carol (cwade) <cwade@brockport.edu>

Subject: Two more programs seeking small changes to Inclusive Adol Ed programs

Dear Jen and Carol,

Thank you , both, for responding to Laurie Cook's request to review the proposal from BIO to alter the BIO Inclusive Adolescence Ed program to realign with new Gen Ed requirements and maintain compliance with SUNY credit limits (126).

There are two other proposals from STEM fields that are very similar. Would you have time to weigh on these as well? If the answer is no, then that is completely understandable. They could wait until the fall if needed.

Just like BIO, these two proposals (1) make no changes to EDI 409, EDI 413, EDI 414, EDI 419, or any other EDI courses and (2) implement, with express support from the Department of History, the same Social Studies cognates aligned with the new Gen Ed requirements:

One American history course (all with Gen Ed code V):

- HST 110 Early America Survey
- HST 120 Modern America Survey
- HST 211 Seminar in Early America
- HST 202 Seminar in Modern America

One world history course (all with gen Ed code O):

- HST 130 Ancient World Survey
- HST 131 World Civilizations
- HST 201 Ancient World Seminar
- HST 202 Modern World Seminar

The ESC proposal changes the math requirement from MTH 122 PreCalculus to MTH 201 Calculus I (on the advice of Vice Provost Eileen Daniel) and the PHS proposal updates some of the PHS content and has a letter of support from Chris Wilkens.

If your committees find these proposals unproblematic within the scope of expertise of your respective committees, then they can proceed in their review and, I hope, get to the Senate floor this cycle. Can you please let me know whether your committees (1) can look these over and (2) find them unproblematic? I don't need a formal letter. A reply to this email is sufficient.

Amy

Amy Guptill, PhD (she/her)
Professor of Sociology
Interim Chair of Mathematics
SUNY Brockport