

Resolution # 29 1990-91



TO: President John E. Van de Wetering
FROM: The Faculty Senate Meeting on 4/15/91
(Date)

RE: X I. Formal Resolution (Act of Determination)
II. Recommendation (Urging the fitness of)
III. Other (Notice, Request, Report, etc.)
For your information

SUBJECT: Revisions to the Graduate Provisional Certification Programs in Secondary Mathematics (7-12), Secondary English (7-12), Secondary Social Studies (7-12), Secondary Biology (7-12), Secondary Chemistry (7-12), Secondary Earth Science (7-12), Secondary Physics (7-12) and Elementary Education (N-6)

Signed Thomas D. Keller Date Sent 4/17/91
(For the Senate)

TO: The Faculty Senate
FROM: President John E. Van de Wetering

RE: I. Decision and Action Taken on Formal Resolution
a. Accepted. Effective Date Fall 91
b. Deferred for discussion with the Faculty Senate on _____
c. Unacceptable for the reasons contained in the attached explanation

II, III.
a. Received and acknowledged
b. Comment:

DISTRIBUTION: See attached list.
for full resolution see Faculty Senate

Distribution Date 5/8/91 Signed: [Signature]
(President of the College)

**PROPOSED CHANGE IN GRADUATE
PROVISIONAL CERTIFICATION PROGRAMS**

Background:

In 1984-85 the College developed alternate M.S. programs for graduate students who did not have a provisional teaching certificate. These programs were designed initially for Empire State Fellowship winners in mathematics and sciences who needed to be matriculated in a program in order to receive their awards and subsequently to provide a certification route for a large number of baccalaureate degree holders who were attracted to teaching as a career. These alternate programs were built upon the undergraduate certification programs then in place and every attempt was made to keep the required hours within the typical M.S. degree range. The result was a series of 39 hr. programs as described herein.

During 1989-90 all undergraduate certification programs were revised and in every case the revisions included additional requirements in professional education and the arts and sciences. In March of 1990, we informed the State Education Department that we would revise the M.S. in Education programs so as to make them consistent with the newly revised undergraduate programs.

Now that the undergraduate programs have been approved by the College, we are requesting approval of revisions of the graduate programs consistent with those made in the undergraduate programs. These changes do not apply to the regular 33 hr. M.S. in Education programs for persons with undergraduate provisional certification.

Each secondary level program includes the addition of a second course in pedagogy and a graduate seminar that accompanies student teaching. In the past students were required to take the seminar without credit. The new secondary level program requires 45 hours for completion. The elementary program looks quite different from the current program but the changes are identical to those made in the undergraduate program. The additional six hours include the addition of 3 hours of generic pedagogy and 3 hours of specific applications in mathematics, science, language arts and social studies. This revision also requires a 45 hour program.

The revised secondary programs are attached and the new courses are identified on the course of study for each. Since the elementary program is significantly different, I have attached both the old and new programs. Also, following this page is a summary of the changes.

Donald H. Johnson, Chairperson
Education and Human Development

Alternate M. S. Programs in Education

Elementary	English	Biology	Chemistry	Earth Science	Physics	Mathematics	Social Studies
ED1 602 3	PSH 584 3	PSH 584 3	PSH 584 3	PSH 584 3	PSH 584 3	PSH 584 3	PSH 584 3
ED1 603 3	ED1 531 3	ED1 533 3	ED1 533 3	ED1 533 3	ED1 533 3	ED1 532 3	ED1 534 3
ED1 701 1	ED1 540 2	ED1 540 2	ED1 540 2	ED1 540 2	ED1 540 2	ED1 540 2	ED1 540 2
ED1 702 2	ED1 603 3	ED1 685 3	ED1 685 3	ED1 685 3	ED1 685 3	ED1 603 3	ED1 670 3
9	ED1 643 3	ED1 617 3	ED1 617 3	ED1 617 3	ED1 617 3	ED1 622 3	ED1 624 3
ED1 625 3	ED1 648 3	ED1 623 3	ED1 623 3	ED1 623 3	ED1 623 3	ED1 686 3	ED1 794 3
ED1 501 1.5	ED1 791 3	ED1 793 3	ED1 793 3	ED1 793 3	ED1 793 3	ED1 792 3	ED1 6XX 3
ED1 502 1.5	12	12	12	12	12	12	12
ED1 503 1.5	AS Elec 6-9 ¹	AS Elec 6-9	AS Elec 6-9	AS Elec 6-9	AS Elec 6-9	AS Elec 6-9	AS Elec 6-9
ED1 504 1.5	Ed Elec 3-6 ²	Ed Elec 3-6	Ed Elec 3-6	Ed Elec 3-6	Ed Elec 3-6	Ed Elec 3-6	Ed Elec 3-6
ED1 537 3	ED1 538 3	39	39	39	39	39	39
ED1 538 3	DBP/ED1 6XX 1 3	18	18	18	18	18	18
ED1 510 9	ED1 510 9	ED1 510 9	ED1 510 9	ED1 510 9	ED1 510 9	ED1 510 9	ED1 510 9
Ed Elec 3 39	Ed Elec 3 39	Ed Elec 3 39	Ed Elec 3 39	Ed Elec 3 39	Ed Elec 3 39	Ed Elec 3 39	Ed Elec 3 39

¹ Course in special needs (Exceptionality elective).
² Arts and Sciences electives, in certification areas, by advisement.
³ Education electives, selected with advisement.
⁴ Social studies education elective.

PROPOSED

ED1 530 ¹ 3	PSH 584 3	PSH 584 3	PSH 584 3	PSH 584 3	PSH 584 3	PSH 584 3	PSH 584 3
ED1 505 ² 3	ED1 530 ² 3	ED1 530 ² 3	ED1 530 ² 3	ED1 530 ² 3	ED1 530 ² 3	ED1 530 ² 3	ED1 530 ² 3
ED1 506 ³ 6	ED1 545 ³ 3	ED1 545 ³ 3	ED1 545 ³ 3	ED1 545 ³ 3	ED1 545 ³ 3	ED1 545 ³ 3	ED1 545 ³ 3
ED1 515 ⁴ 3	ED1 565 ⁴ 3	ED1 565 ⁴ 3	ED1 565 ⁴ 3	ED1 565 ⁴ 3	ED1 565 ⁴ 3	ED1 565 ⁴ 3	ED1 565 ⁴ 3
ED1 516 ⁵ 6	ED1 575 ⁵ 9	ED1 575 ⁵ 9	ED1 575 ⁵ 9	ED1 575 ⁵ 9	ED1 575 ⁵ 9	ED1 575 ⁵ 9	ED1 575 ⁵ 9
ED1 6XX ⁶ 3	ED1 576 ⁶ 3	ED1 576 ⁶ 3	ED1 576 ⁶ 3	ED1 576 ⁶ 3	ED1 576 ⁶ 3	ED1 576 ⁶ 3	ED1 576 ⁶ 3
ED1 555 ⁷ 9	24	24	24	24	24	24	24
33	ED1 603 3	ED1 685 3	ED1 685 3	ED1 685 3	ED1 685 3	ED1 603 3	ED1 670 3
ED1 602 3	ED1 645 3	ED1 617 3	ED1 617 3	ED1 617 3	ED1 617 3	ED1 622 3	ED1 624 3
ED1 603 3	ED1 648 3	ED1 623 3	ED1 623 3	ED1 623 3	ED1 623 3	ED1 686 3	ED1 794 3
ED1 700 3	ED1 791 3	ED1 793 3	ED1 793 3	ED1 793 3	ED1 793 3	ED1 792 3	ED1 6XX 3
9	12	12	12	12	12	12	12
Ed Elec 3 45	AS Elec 6 45	AS Elec 6 45	AS Elec 6 45	AS Elec 6 45	AS Elec 6 45	AS Elec 6 45	AS Elec 6 45
Ed Elec 3 45	Ed Elec 3 45	Ed Elec 3 45	Ed Elec 3 45	Ed Elec 3 45	Ed Elec 3 45	Ed Elec 3 45	Ed Elec 3 45

¹ New courses.
² Revised Courses

³ Renumbered courses.

SAMPLE EXISTING PROGRAM

ALTERNATE M.S. IN EDUCATION: SECONDARY MATHEMATICS

Total Hour Requirement: 39 semester hours. In addition, a culminating project or thesis is required. The specific courses included in the program must be approved by the advisor.

1. Basic Sequence 15 hours

PSH 584	Adolescence	(3)
EDI 532	Methods of Teaching Secondary Math	(3)
EDI 540	Practicum in Secondary Math Education	(9)

 2. Professional Education 12 hours

EDI 603	Educational Measurement and Evaluation	
EDI 622	Advanced Secondary School Curriculum: Mathematics	
EDI 686	Problems: Secondary School Mathematics Education	
EDI 792	Seminar in Secondary School Mathematics Education (During the seminar, students normally complete the culminating project or thesis).	

 3. Arts and Sciences Electives

In the area of certification, with advisement	6-9 hours
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 4. Education Electives

Selected with advisement.	<u>3-6 hours</u>
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- TOTAL 39 hours

PROPOSED
 ALTERNATE M.S. IN EDUCATION
 SECONDARY MATHEMATICS 7-12

This program is designed for students without provisional certification who have a baccalaureate degree and a major in mathematics.

I. PREREQUISITES

Candidates must have a baccalaureate degree with a major in mathematics. Some students may be required to complete prerequisite courses before they are allowed to matriculate in this program. Matriculation is required and must be completed prior to taking EDI 530. All programs require one year of college-level study or its equivalent of a language other than English.

II. REQUIRED COURSES

1. <u>Initial Sequence</u>	24 hours
PSH 584 Adolescence	(3)
EDI 530 Foundations of Education	(3)
NEW → EDI 546 Intro to Teaching Secondary Mathematics	(3)
EDI 566 Methods of Teaching Secondary Math.	(3)
EDI 575 Practicum in Secondary Education	(9)
NEW → EDI 576 Seminar in Secondary Education	(3)
2. <u>Advanced Secondary Mathematics Education</u>	12 hours
EDI 603 Educational Measurement and Evaluation	(3)
EDI 622 Advanced Secondary School Curriculum: Mathematics	(3)
EDI 686 Problems: Secondary School Mathematics Education	(3)
EDI 792 Seminar in School Mathematics Education (during the Seminar students normally complete the culminating project or thesis).	(3)
3. <u>Arts and Sciences Electives</u>	6 hours
In the area of certification, with advisement.	
4. <u>Education Electives</u>	<u>3 hours</u>
Selected with advisement.	
TOTAL	45 hours

PROPOSED
ALTERNATE M.S. IN EDUCATION
SECONDARY ENGLISH 7-12

This program is designed for students without provisional certification who have a baccalaureate degree and a major in English.

I. PREREQUISITES

Candidates must have a baccalaureate degree with a major in English. Some students may be required to complete prerequisite courses before they are allowed to matriculate in this program. Matriculation is required and must be completed prior to taking EDI 530. All programs require one year of college-level study or its equivalent of a language other than English.

II. REQUIRED COURSES

1. <u>Initial Sequence</u>	24 hours
PSH 584 Adolescence (3)	
EDI 530 Foundations of Education (3)	
<i>New</i> → EDI 545 Intro to Teaching Secondary English (3)	
EDI 565 Methods of Teaching Secondary English (3)	
EDI 575 Practicum in Secondary Education (9)	
<i>New</i> → EDI 576 Seminar in Secondary Education (3)	
2. <u>Advanced Secondary English Education</u>	12 hours
EDI 603 Educational Measurement and Evaluation (3)	
EDI 645 Reading and Responding to Literature, K-12 (3)	
EDI 648 Teaching Written Composition, K-12 (3)	
EDI 791 Seminar in English Education (3)	
(during the Seminar students normally complete the culminating project or thesis).	
3. <u>Arts and Sciences Electives</u>	6 hours
In the area of certification, with advisement.	
4. <u>Education Electives</u>	<u>3 hours</u>
Selected with advisement.	
TOTAL	45 hours

PROPOSED
ALTERNATE M.S. IN EDUCATION
SECONDARY SOCIAL STUDIES 7-12

This program is designed for students without provisional certification who have a baccalaureate degree and a major in a social science.

I. PREREQUISITES

Candidates must have a baccalaureate degree with a social science major and a concentration in history. Some students may be required to complete prerequisite courses before they are allowed to matriculate in this program. Matriculation is required and must be completed prior to taking EDI 530. All programs require one year of college-level study or its equivalent of a language other than English.

II. REQUIRED COURSES

1. <u>Initial Sequence</u>	24 hours
PSH 584 Adolescence	(3)
EDI 530 Foundations of Education	(3)
<i>New</i> → EDI 548 Intro to Teaching Secondary Social Studies	(3)
EDI 568 Methods of Teaching Secondary Social Studies	(3)
<i>New</i> → EDI 575 Practicum in Secondary Education	(9)
EDI 576 Seminar in Secondary Education	(3)
2. <u>Advanced Secondary Social Studies Education</u>	12 hours
EDI 670 Innovation in Secondary Social Studies	(3)
EDI 624 Advanced Secondary School Curriculum: Social Studies	(3)
EDI 794 Seminar: Secondary School Social Studies Education	(3)
EDI 6XX Social Studies Education Elective	(3)
3. <u>Arts and Sciences Electives</u>	6 hours
In the area of certification, with advisement.	
4. <u>Education Electives</u>	<u>3 hours</u>
Selected with advisement.	
TOTAL	45 hours

PROPOSED
ALTERNATE M.S. IN EDUCATION
SECONDARY BIOLOGY 7-12

This program is designed for students without provisional certification who have a baccalaureate degree and a major in biology.

I. PREREQUISITES

Candidates must have a baccalaureate degree with a major in a biology. Some students may be required to complete prerequisite courses before they are allowed to matriculate in this program. Matriculation is required and must be completed prior to taking EDI 530. All programs require one year of college-level study or its equivalent of a language other than English.

II. REQUIRED COURSES

1.	<u>Initial Sequence</u>	24 hours
	PSH 584 Adolescence	(3)
	EDI 530 Foundations of Education	(3)
	<i>New</i> → EDI 547 Methods of Teaching Secondary Science	(3)
	EDI 567 Laboratory Methods and Materials	(3)
	EDI 575 Practicum in Secondary Education	(9)
	<i>New</i> → EDI 576 Seminar in Secondary Education	(3)
2.	<u>Advanced Science Education</u>	12 hours
	EDI 685 Statistics and Research Design	(3)
	EDI 617 Advanced Methods in Teaching Secondary School Science	(3)
	EDI 623 Current Secondary Science Education Research	(3)
	EDI 793 Secondary Science Education: Project or Thesis	(3)
3.	<u>Arts and Sciences Electives</u>	6 hours
	In the area of certification, with advisement.	
4.	<u>Education Electives</u>	<u>3 hours</u>
	Selected with advisement.	
	TOTAL	45 hours

PROPOSED
ALTERNATE M.S. IN EDUCATION
SECONDARY CHEMISTRY 7-12

This program is designed for students without provisional certification who have a baccalaureate degree and a major in chemistry.

I. PREREQUISITES

Candidates must have a baccalaureate degree with a major in a chemistry. Some students may be required to complete prerequisite courses before they are allowed to matriculate in this program. Matriculation is required and must be completed prior to taking EDI 530. All programs require one year of college-level study or its equivalent of a language other than English.

II. REQUIRED COURSES

1. Initial Sequence 24 hours

	PSH 584 Adolescence	(3)
	EDI 530 Foundations of Education	(3)
	EDI 547 Methods of Teaching Secondary Science	(3)
<i>New</i> →	EDI 567 Laboratory Methods and Materials	(3)
<i>New</i> →	EDI 575 Practicum in Secondary Education	(9)
	EDI 576 Seminar in Secondary Education	(3)

2. Advanced Science Education 12 hours

	EDI 685 Statistics and Research Design	(3)
	EDI 617 Advanced Methods in Teaching Secondary School Science	(3)
	EDI 623 Current Secondary Science Education Research	(3)
	EDI 793 Secondary Science Education: Project or Thesis	(3)

3. Arts and Sciences Electives 6 hours

In the area of certification, with advisement.

4. Education Electives 3 hours

Selected with advisement.

TOTAL 45 hours

PROPOSED
ALTERNATE M.S. IN EDUCATION
SECONDARY EARTH SCIENCE 7-12

This program is designed for students without provisional certification who have a baccalaureate degree and a major in earth science.

I. PREREQUISITES

Candidates must have a baccalaureate degree with a major in a earth science. Some students may be required to complete prerequisite courses before they are allowed to matriculate in this program. Matriculation is required and must be completed prior to taking EDI 530. All programs require one year of college-level study or its equivalent of a language other than English.

II. REQUIRED COURSES

1. <u>Initial Sequence</u>	24 hours
PSH 584 Adolescence	(3)
EDI 530 Foundations of Education	(3)
EDI 547 Methods of Teaching Secondary Science	(3)
<i>New</i> → EDI 567 Laboratory Methods and Materials	(3)
EDI 575 Practicum in Secondary Education	(9)
<i>New</i> → EDI 576 Seminar in Secondary Education	(3)
2. <u>Advanced Science Education</u>	12 hours
EDI 685 Statistics and Research Design	(3)
EDI 617 Advanced Methods in Teaching Secondary School Science	(3)
EDI 623 Current Secondary Science Education Research	(3)
EDI 793 Secondary Science Education: Project or Thesis	(3)
3. <u>Arts and Sciences Electives</u>	6 hours
In the area of certification, with advisement.	
4. <u>Education Electives</u>	<u>3 hours</u>
Selected with advisement.	
TOTAL	45 hours

PROPOSED
ALTERNATE M.S. IN EDUCATION
SECONDARY PHYSICS 7-12

This program is designed for students without provisional certification who have a baccalaureate degree and a major in physics.

I. PREREQUISITES

Candidates must have a baccalaureate degree with a major in a physics. Some students may be required to complete prerequisite courses before they are allowed to matriculate in this program. Matriculation is required and must be completed prior to taking EDI 530. All programs require one year of college-level study or its equivalent of a language other than English.

II. REQUIRED COURSES

1. <u>Initial Sequence</u>		24 hours
	PSH 584 Adolescence	(3)
	EDI 530 Foundations of Education	(3)
	EDI 547 Methods of Teaching Secondary Science	(3)
	<i>New</i> EDI 567 Laboratory Methods and Materials	(3)
	EDI 575 Practicum in Secondary Education	(9)
	<i>New</i> EDI 576 Seminar in Secondary Education	(3)
2. <u>Advanced Science Education</u>		12 hours
	EDI 685 Statistics and Research Design	(3)
	EDI 617 Advanced Methods in Teaching Secondary School Science	(3)
	EDI 623 Current Secondary Science Education Research	(3)
	EDI 793 Secondary Science Education: Project or Thesis	(3)
3. <u>Arts and Sciences Electives</u>		6 hours
	In the area of certification, with advisement.	
4. <u>Education Electives</u>		<u>3 hours</u>
	Selected with advisement.	
	TOTAL	45 hours

ALTERNATE M.S. IN EDUCATION: ELEMENTARY
ELEMENTARY CURRICULUM SPECIALIZATION

The program is designed for students without provisional certification who have an undergraduate arts and sciences major or equivalent.

<u>Elementary Education Core</u>	9 hours
EDI 602 Elementary Curriculum (3)	
EDI 603 Educational Measurement and Evaluation (3)	
EDI 701 Introduction to Research (1)	
EDI 702 Project or Thesis	
<u>Elementary Curriculum Concentration</u>	18 hours
EDI 625 Foundations of Education (3)	
EDI 501 Methods Science (1.5)	
EDI 502 Methods Math (1.5)	
EDI 503 Methods Social Studies (1.5)	
EDI 504 Methods Language Arts (1.5)	
EDI 537 Developmental Reading (3)	
EDI 538 Diagnostic Reading Instruction (3)	
DBD 6XX Course in Special Needs (3)	
<u>Practicum</u>	
EDI 510 Practicum in Elementary Education	9 hours
<u>Elective</u>	3 hours
	TOTAL 39 hours

Notes:

1. An undergraduate or graduate course in developmental or child psychology is required as a prerequisite or corequisite.
2. Entrance requirements include an undergraduate G.P.A. of 3.0 or better and satisfactory scores on tests in basic skills and content areas.
3. There is a desirable sequencing of courses. Persons entering the program should consult an advisor immediately.
4. EDI 701 Introduction to Research is designed for students matriculated in the M.S. in Education: Elementary to acquaint them with a broad spectrum of quantitative and qualitative research methodologies. This is also an introduction to the culminating project or thesis and should normally be taken prior to the completion of 12 to 15 hours of graduate credit. Prerequisite: EDI 603, 685 or equivalent.
5. EDI 702 Project or Thesis is designed to facilitate completion of projects and theses. It should be taken during the final phase of the student's program. Prerequisite: EDI 701.

PROPOSED
ALTERNATE M.S. IN EDUCATION
ELEMENTARY EDUCATION N-6

This program is designed for students without provisional certification who have an appropriate undergraduate arts and sciences major or equivalent.

I. PREREQUISITES

Candidates seeking certification as an elementary school teacher (K-6) must complete an academic major or concentration in a discipline generally considered as one of the liberal arts or sciences. Business, other professional programs or majors, and performance majors such as dance do not satisfy this requirement. All students must have completed the equivalent of one year of college-level study in a language other than English and a course in developmental or child psychology. Each must also demonstrate adequate achievement in English, science, mathematics and the social sciences. Normally, this means at least six credit hours beyond the introductory course in each field. Program advisors will determine adequacy of the candidate's background and requirements may be waived based upon the individual student's life experience and background.

II. REQUIRED COURSES

1. <u>Initial Sequence</u>	33 hours
EDI 530 Foundations of Education	(3)
EDI 505 Literacy I	(3)
EDI 506 Dimensions of Teaching with Lab	(6)
EDI 515 Literacy II	(3)
EDI 516 Applications of Teaching with Lab	(6)
EDI 6XX Elective in Exceptionality	(3)
EDI 555 Practicum in Elementary Education (with seminar)	(9)
2. <u>Advanced Elementary Education Core Courses</u>	9 hours
EDI 602 Elementary Curriculum (to be taken <u>after</u> EDI 555)	(3)
EDI 603 Educational Measurement and Evaluation	(3)
EDI 700 Graduate Culminating Seminar	(3)
3. <u>Advanced Methods Course</u>	<u>3 hours</u>
To be selected with advisement and taken after EDI 555	
TOTAL	45 hours

NOTES:

1. Prior to being allowed to enroll in EDI 506, the student must pass the National Teacher Examination (NTE) Core Battery Tests of Communications Skills and General Knowledge.
2. Entrance requirements include an undergraduate Grade Point Average (GPA) of 3.00 or better on a 4.00 scale, experience working with children, and appropriate graduate application forms.
3. There is an appropriate sequencing of courses. Persons entering the program must consult an advisor immediately.
4. EDI 602 Seminar in Elementary School Curriculum must be taken after completion of EDI 555.