

10-29-1990

## Secondary Chemistry Certification

The College at Brockport, College Senate

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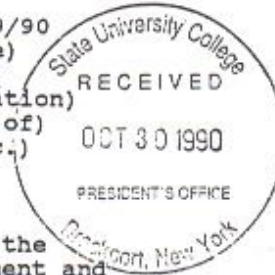
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Resolution # 7 1990-91

TO: President John E. Van de Wetering  
FROM: The Faculty Senate Meeting on 10/29/90  
(Date)

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

SUBJECT: Revisions to the Secondary Chemistry 7-12  
Certification BA, BS Programs proposed by the  
Department of Education and Human Development and  
the Department of Chemistry.



Signed Thomas J. Kall Date Sent 10/30/90  
(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: Cover page only  
See list for distribution

Distribution Date 11/5/90 Signed [Signature]  
(President of the College)

# PROPOSED REVISIONS SECONDARY CHEMISTRY 7-12

BA, BS

HEGIS CODE: 1905.01

PROGRAM CODE:

03447 BA

12094 BS

DEPT. OF EDUCATION AND HUMAN DEVELOPMENT 9/1/90

PROGRAM REVISIONS - SECONDARY SCIENCE 7-12

A. Changes in Arts & Sciences requirements:

1. All students will complete a major and a minor in the sciences. (No change except that the minor was not previously specifically required for Earth Science).

All students will be required to complete one additional year in two other science disciplines (16 hours). Brockport students will be certified to teach general science in addition to the primary area of certification.

2. All students will be required to complete NAS 486 Laboratory Science Safety.\*

Rationale: Teachers of any sciences must be cognizant of state and national safety regulations and must also be competent in ensuring a safe environment for their students in the science classrooms and labs.

\*Exception: Chemistry majors who are required to take the appropriate chemistry safety course.

3. One year's study of a language other than English.

B. Changes in Professional Education requirements:

1. Inclusion of a foundations course designed to provide early experience in schools and historical social and philosophical foundations (EDI 320 Self, Schools and Society). This course replaces SOC 412 Schools, Learning and Society and/or EDI 412 Self, Schools and Society. 3 credit hours.
2. Development of a new laboratory methods course in each of the science disciplines.

C. Changes in Course Content (Professional Area)

Other changes will be made in course content to ensure that students are prepared to teach students from minority cultures, gifted-talented students, students with handicapping conditions and students from homes where a language other than English is spoken.

D. Comparison of Old and New Professional Sequence

<u>OLD</u>		<u>NEW</u>	
PSH 484 Adolescence	3 hrs.	EDI 320 Self, School & Society	3 hrs
HLS 370 Drug Educ. for Teachers	1 hr.	HLS 370 Drug Educ. for Teachers	1 hr.
EDI 43X Methods of Teaching XXX	3 hrs.	PSH 484 Adolescence	3 hrs
EDI 440 Practicum	12 hrs.	EDI 447 Methods of Teaching Secondary Science	3 hrs
EDI 441 Problems	3 hrs.	*CHM 480 Practical Chemistry Lab. Pedagogy	3 hrs
SOC 412/EDI 412 School & Society	3 hrs.	EDI 475 Practicum	12 hrs
		EDI 476 Seminar	3 hrs

\*Example from Chemistry

Currently Registered Program

PROGRAM CODE	HEGIS	DEGREE
03447	1905.01	BA
12094	1905.01	BS

EDUCATION PROGRAM REQUIREMENTS

Institution SUNY, College at Brockport

Program Title Chemistry "7-12" Degree BA/BS

Required Courses in Academic Discipline

Number	Name	Credits
CHM 205-206	College Chemistry I, II	8
CHM 301	Chemical Safety	1
CHM 303	Quantitative Analysis	4
CHM 305-306	Organic Chemistry I, II	8
CHM 400-401	Chemistry Seminar I, II	1
CHM 405-406	Physical Chemistry I, II	6
CHM 408-409	Physical Chem. Lab I, II	2
MTH 201,202,203	Calculus I,II,III	9
PHS 201-202	College Physics I,II	8

Required co-requisites  
Required co-requisites

Additional elective credits in the discipline, if required 3

Total number of credits in academic discipline 33 min.

Required Courses in Pedagogy\*

Number	Name	Credits
EDI 320	Self, Schools & Society	3
PSH 484	Adolescence	3
HLS 370	Drug Education for Teachers	1
EDI 433	Methods of Teaching Secondary Science	3
EDI 440	Student Teaching Practicum	12
EDI 441	Problems of Secondary Education	3

Additional elective credits in pedagogy, if required \_\_\_\_\_

Total number of credits in pedagogy 25

PROPOSED REVISION  
 SECONDARY CHEMISTRY 7-12  
 TEACHER CERTIFICATION

This program is designed to prepare students to teach chemistry in New York State schools in grades 7-12. In addition to certification in chemistry, the student will also meet the New York State requirements for certification in the area of a minor and in general science.

Program Requirements Credit Hours

I. General Education Requirements Variable  
 Students must meet the general education requirements in place at the time of acceptance

II. Pre Professional Preparation:

Major in Chemistry

The student must earn a minimum of 33 credits in chemistry, complete one year of college-level physics with laboratory, and three semesters of calculus.

Required Courses (33 credits)

The following courses are required of all majors:

CHM 205-206 College Chemistry I,II	8
CHM 301 Chemical Safety	1*
CHM 303 Quantitative Analysis	4
CHM 305-306 Organic Chemistry I,II	8
CHM 400-401 Chemistry Seminar I,II	1
CHM 405-406 Physical Chemistry I,II	6
CHM 408-109 Physical Chemistry laboratory I,II	2
CHM 480 Practical Chemistry Laboratory Pedagogy	3
Credits in Chemistry	Total 33
MTH 201-202-203 Calculus I,II,III	9
PHS 201-202 College Physics I,II	8
Other Math and Science Requirements	Total 17

The above requirements refer to the chemistry major. In addition, the following requirements must be met for teacher certification:

Minor in a second science	18
Four semesters of additional science w/lab	16
(Two semesters study in each of two additional science disciplines other than the major and minor)	
NAS 486 Laboratory Science Safety	3
	37

\*This course, required for the chemistry major, is waived for candidate's for teaching certification. (They must include NAS 486 Laboratory Science Safety.)

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SECONDARY CHEMISTRY TEACHER CERTIFICATION

- III. Pre-Professional Preparation: Foreign Language 0-6 hours  
The equivalent of one year of college level study in a language other than English is required for teacher certification in New York State.
- IV. Professional Preparation: Education Courses 13 hours
- |         |                                   |         |
|---------|-----------------------------------|---------|
| EDI 320 | Self, Schools and Society         | 3 hours |
| HLS 370 | Drug Education for Teachers       | 1 hours |
| PSH 484 | Adolescence                       | 3 hours |
| EDI 447 | Methods of Teaching Sec. Science  | 3 hours |
| CHM 480 | Practical Chemistry Lab. Pedagogy | 3 hours |
- V. Professional Preparation: Student Teaching and Senior Seminar: 15 hours
- |         |                                |          |
|---------|--------------------------------|----------|
| EDI 475 | Practicum                      | 12 hours |
| EDI 476 | Seminar in Secondary Education | 3 hours  |

Total Hour Requirements

General Education	28 or more, depending on courses chosen
Chemistry Major	32
Math and Physics	17
Minor in Second Science and Other Science Req.	29
Foreign Language	0-6
Education courses and practicum	28
	<hr/> 134 minimum

More if language not satisfied  
More if not ready for Calculus upon entry





ADMISSIONS CRITERIA

and Other Program Information

Secondary Chemistry Certification 7-12

1. Grade Point Average (G.P.A.) - The minimum overall GPA requirement is 2.5. However, depending on the number and quality of applicants at any point in time, the actual requirement may be higher. Some qualified candidates may not be accepted in periods of high demand.
2. Credit Hour Requirements. Applications will be considered after the student has completed 24 hours of college level coursework.
3. Students must maintain an overall 2.5 G.P.A. and a 2.5 G.P.A. in the major field in order to continue in the program.
4. Effective 9/1/90 the NTE Core Battery Tests of Communication Skills and General Knowledge have replaced the Basic Skills Tests as a component of the admissions/continued eligibility requirements of all certification programs.
5. Students may be accepted to a program without NTE scores, but will not be admitted to a methods course after April 1, 1991 without successfully passing the Communication Skills and General Knowledge parts of the Core Battery.
6. Students who have completed the Brockport Basic Skills Tests are exempt from the NTE requirement for admission/continued eligibility. However, all students must successfully complete the NTE in order to receive state certification.
7. Closing dates for receipt of applications for provisional certification programs are as follows:

March 1 for enrollment beginning in the fall or later.

October 1 for enrollment beginning in the spring or later.

Applications may be reviewed after the following closing dates if seats are available:

January 2 for enrollment beginning in the spring or later.

June 1 for enrollment beginning in the fall or later.

For consideration, all materials must be in by the closing date. Notification will be made approximately 3 weeks after the review date.