

Student Name: \_\_\_\_\_ P#: \_\_\_\_\_  
 Date Admitted: \_\_\_\_\_ Advisor: \_\_\_\_\_

**BA/MST Secondary School Science Education - Option "A"**  
**Certification in One High School Science Content Area with Middle School  
 Extension**

**Grades 7-12 with 5-6 Extension**  
 Advisement Guide

**Program:**

- All courses in the science content area must be completed with a minimum of **2.3 or higher**.
- All Education courses must be completed with a numeric grade of **2.3 or higher**
- Students must maintain a **2.75 overall GPA**
- Students pursuing the BA/MST Secondary School Science Education Option "A" (for certification in one High School science with a Middle School extension) must complete an appropriate science major and a distribution in other science courses as listed on page 2.

**Select one of the following majors:**

- Biology, Chemistry, Geology, or Physics major.
- The science major must be completed with a **2.75 GPA**.
- Contact the Department Chair of the selected science major to declare that major, be assigned a science advisor and select appropriate courses.

<u>Date Planned</u>	<u>Date Completed</u>	<u>Grade</u>	
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**Undergraduate**

_____	_____	_____	3 cr. - EDLS 349 - Introduction to Middle and Secondary Education Gr. 5-12
_____	_____	_____	3 cr. - SECD 472 - @Science Curricula, Programs & Standards ( <b>Spring Only</b> )
_____	_____	_____	3 cr. - SECD 411 - @Middle School Science Field Experience (Coreq. SECD 472) ( <b>Spring Only</b> )
_____	_____	_____	3 cr. - SECD 356 - @Reading in the Middle & Secondary Schools
_____	_____	_____	3 cr. - EDLS 315 - Teaching Students with Special Needs, Gr. 5-12

**Graduate**

**Summer**

_____	_____	_____	3 cr. - GRED 557 - @Reading/Literacy in Middle and Secondary School
_____	_____	_____	3 cr. - IT 614 - @Technology in Education
_____	_____	_____	3 cr. - GRED @Elective (530 or 544 or 610 or 553)

**Fall**

_____	_____	_____	3 cr. - GRED 502 - @Issues in Science-Technology-Society ( <b>Fall Only</b> )
_____	_____	_____	3 cr. - GRED 603 - @Seminar: Teaching in the Secondary School
_____	_____	_____	3 cr. - GRED 675 - @Secondary Science Teaching Research
_____	_____	_____	3 cr. - GRED 571 - @Science Education Instruction in Secondary Schools
_____	_____	_____	3 cr. - GRED 673 - @Secondary Science Field Work

**Culminating Experience**

_____	_____	_____	3 cr. GRED 670 – Culminating Experience – under advisement of Education Advisor
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**Date**            **Date**  
**Planned**    **Completed** **Grade**

**Spring  
 Student Teaching**

_____	_____	_____	6 cr. - GRED 694 - @Student Teaching: Middle/Junior High (5–9)
_____	_____	_____	6 cr. - GRED 697 - @Student Teaching: Senior High School (10–12) (Major Discipline)
_____	_____	_____	2 cr. - GRED 676 - @Student Teaching Seminar: Policies & Practice in American Education

**Cognate Requirements:** All cognate courses must be completed prior to beginning the graduate portion of the program. All cognate courses must be completed with a **2.3 or higher**.

_____	_____	_____	3 cr. - PSYC 100 - Introduction to Psychology <b>or</b> PSYC 220 Child Development
_____	_____	_____	3 cr. - PSYC 321 - Psychology of Adolescence <b>or</b> GRED 677 - Development and Learning for teachers
_____	_____	_____	2 cr. - HLTH 230 - School Health (CA, SAVE) – includes workshops on Identification and Reporting of Child Abuse & Maltreatment and Schools Against Violence in Education
_____	_____	_____	0-9 cr. - <b>Modern Language requirement of the college (ML)</b>
_____	_____	_____	
_____	_____	_____	

**Additional Science Cognates**

**For Biology Majors:** Major in Biology - 36 cr. **and**

_____	_____	_____	3 cr. - Physics - as advised
_____	_____	_____	3 cr. - Geology - as advised
_____	_____	_____	3 cr. - Astronomy
_____	_____	_____	3 cr. - Meteorology

**For Chemistry Majors:** Major in Chemistry - 33 cr. **and**

_____	_____	_____	3 cr. - Biology - as advised
_____	_____	_____	3 cr. - Geology - as advised
_____	_____	_____	3 cr. - Astronomy
_____	_____	_____	3 cr. - Meteorology

**For Geology Majors:** Major in Geology - 33 cr. **and**

_____	_____	_____	3 cr. - Biology - as advised
_____	_____	_____	3 cr. - Physics - as advised
_____	_____	_____	3 cr. - Astronomy
_____	_____	_____	3 cr. - Meteorology

**For Physics Majors:** Major in Physics - 30 cr. (Astronomy and Meteorology to be included in the major) **and**

_____	_____	_____	3 cr. - Biology - as advised
_____	_____	_____	3 cr. - Geology - as advised

**Note –** Every student at SUNY Potsdam is required to complete the College’s General Education Program, which may include courses in addition to those in the Education Program.

<b>New York State Teacher Certification Exams:</b>	<b>Required for Initial Certification</b>
_____	Liberal Arts & Sciences Test (LAST)
_____	Content Specialty Test (CST)
_____	Assessment of Teaching Skills-Written (ATS-W)

Student Name: \_\_\_\_\_ P#: \_\_\_\_\_  
 Date Admitted: \_\_\_\_\_ Advisor: \_\_\_\_\_

## BA/MST Secondary School Science Education - Option "B" Certification in Two High School Science Content Areas

(Biology & Chemistry, or Biology & Physics, or Biology & Earth Science, or Chemistry & Physics, or  
 Chemistry & Earth Science, or Physics & Earth Science)

### Grades 7-12

Advisement Guide

#### Program:

- All courses in the science content area must be completed with a minimum of **2.3 or higher**.
- All Education courses must be completed with a numeric grade of **2.3 or higher**
- Students must maintain a **2.75 overall GPA**
- Students pursuing the BA/MST Secondary School Science Education - Option "B" (for dual certification in two sciences) must complete an appropriate science major and minor.

#### Select one of the following majors and minor:

- Biology, Chemistry, Geology, or Physics major; and minor in a second science.
- The science major must be completed with a **2.75 GPA**.
- Contact the Department Chair of the selected science major to declare that major, be assigned a science advisor and select appropriate courses.

<u>Date Planned</u>	<u>Date Completed</u>	<u>Grade</u>	
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#### Undergraduate

_____	_____	_____	3 cr. - EDLS 349 - Introduction to Middle and Secondary Education Gr. 5-12
_____	_____	_____	3 cr. - SECD 472 - @Science Curricula, Programs, & Standards ( <b>Spring Only</b> )
_____	_____	_____	3 cr. - SECD 411 - @Middle School Science Field Experience (Coreq. SECD 472) ( <b>Spring Only</b> )
_____	_____	_____	3 cr. - SECD 356 - @Reading in the Middle & Secondary Schools
_____	_____	_____	3 cr. - EDLS 315 - Teaching Students with Special Needs, Gr. 5-12

#### Graduate

##### Summer

_____	_____	_____	3 cr. - GRED 557 - @Reading/Literacy in Middle and Secondary School
_____	_____	_____	3 cr. - IT 614 - @Technology in Education
_____	_____	_____	3 cr. - GRED - @Elective (530 or 544 or 610 or 533)

##### Fall

_____	_____	_____	3 cr. - GRED 502 - @Issues in Science-Technology-Society ( <b>Fall Only</b> )
_____	_____	_____	3 cr. - GRED 603 - @Seminar: teaching in the Secondary School
_____	_____	_____	3 cr. - GRED 675 - @Secondary Science Teaching Research
_____	_____	_____	3 cr. - GRED 571 - @Science Education Instruction in Secondary Schools
_____	_____	_____	3 cr. - GRED 673 - @Secondary Science Field Work

#### Culminating Experience

_____	_____	_____	3 cr. - GRED 670 - Culminating Experience - under advisement of Education Advisor
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**Date**      **Date**  
Planned   Completed   Grade

**Spring  
 Student Teaching**

<u>        </u>	<u>        </u>	<u>        </u>	6 cr. - GRED 694 - @Student Teaching: Middle/Junior High (5-9)
<u>        </u>	<u>        </u>	<u>        </u>	6 cr. - GRED 697 - @Secondary Student Teaching (Major Discipline)
<u>        </u>	<u>        </u>	<u>        </u>	2 cr. - GRED 676 - @Student Teaching Seminar: Policies & Practice in American Education

**Cognate Requirements:** All cognate courses must be completed prior to beginning the graduate portion of the program. All cognate courses must be completed with a **2.3 or higher**.

<u>        </u>	<u>        </u>	<u>        </u>	3 cr. - PSYC 100 - Introduction to Psychology <b>or</b> PSYC 220 Child Development
<u>        </u>	<u>        </u>	<u>        </u>	3 cr. - PSYC 321 - Psychology of Adolescence <b>or</b> GRED 677 - Development and Learning for teachers
<u>        </u>	<u>        </u>	<u>        </u>	2 cr. - HLTH 230 - School Health (CA, SAVE) – includes workshops on Identification and Reporting of Child Abuse & Maltreatment and Schools Against Violence in Education
<u>        </u>	<u>        </u>	<u>        </u>	0-9 cr. - <b>Modern Language requirement of the college (ML)</b>
<u>        </u>	<u>        </u>	<u>        </u>	
<u>        </u>	<u>        </u>	<u>        </u>	

**For Biology Majors:**

<u>        </u>	<u>        </u>	<u>        </u>	Major in Biology - 36 cr. <b>and</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Chemistry - 22 cr. <b>or</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Physics - 19 cr. <b>or</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Earth Science: Geology 19 cr. + Astronomy 3cr. + Meteorology 3 cr. = 25 cr.

**For Chemistry Majors:**

<u>        </u>	<u>        </u>	<u>        </u>	Major in Chemistry - 33 cr. <b>and</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Biology - 23 cr. <b>or</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Physics - 19 cr. <b>or</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Earth Science: Geology 19 cr. + Astronomy 3cr + Meteorology 3 cr. = 25 cr.

**For Geology Majors:**

<u>        </u>	<u>        </u>	<u>        </u>	Major in Geology - 33 cr. <b>and</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Chemistry - 22 cr. <b>or</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Physics - 19 cr. <b>or</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Biology - 23 cr.

**For Physics Majors:**

<u>        </u>	<u>        </u>	<u>        </u>	Major in Physics - 30 cr. <b>and</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Chemistry - 22 cr. <b>or</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Biology - 23 cr. <b>or</b>
<u>        </u>	<u>        </u>	<u>        </u>	Minor in Earth Science: Geology 19 cr. + Astronomy 3cr + Meteorology 3 cr. = 25 cr.

**Note –** Every student at SUNY Potsdam is required to complete the College’s General Education Program, which may include courses in addition to those in the Education Program.

<b><u>New York State Teacher Certification Exams:</u></b>	<b>Required for Initial Certification</b>
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<u>        </u>	Content Specialty Test (CST)
<u>        </u>	Assessment of Teaching Skills-Written (ATS-W)

## Secondary and BA/MST Secondary Science Education - Gates

<b>CRITERIA</b>	<b>STANDARD</b>		
	<b>Sci. U.G.</b>	<b>BA/MST Option A</b>	<b>BA/MST Option B</b>
<b>Initial</b> minimum required GPA	2.00	2.75	2.75
Grades (minimum) required in <b>education</b> courses	2.00	2.30	2.30
Grades (minimum) required in <b>Arts &amp; Sciences major</b> courses	2.00	2.30	2.30
Minimum grades needed in all required and <b>cognate</b> courses	2.00	2.30	2.30
Education Major GPA (minimum required prior to Student Teaching)	2.75	2.75	2.75
Arts & Sciences Major GPA minimum required prior to Student Teaching	2.50	2.75	2.75
<b>Second level/gate</b> Required minimum overall GPA	2.50	2.75	2.75
Education Cr. Hrs. when full admit/second gate becomes effective	6 cr. hrs.	6 cr. hrs.	6 cr. hrs.

9/08

# Professional Dispositions Rating Scale

9/08

*Department of Secondary Education*

Key to Ratings:  
 0 – unacceptable  
 1 – minimally meets expectations  
 2 – meets expectations  
 3 – exceeds expectations

Category	Performance Indicators	Ratings			
		0	1	2	3
Demonstrates value of content discipline	<i>Expands discipline-specific, professional, and personal reading practices</i>				
	<i>Exhibits consistent enthusiasm for varied areas within the content discipline</i>				
Works well with others	<i>Works collaboratively in groups or teams</i>				
	<i>Models positive listening skills</i>				
Takes responsibility	<i>Follows directions; follows through on responsibilities and tasks</i>				
	<i>Seeks, accepts, and acts upon constructive feedback</i>				
	<i>Completes work in a timely fashion</i>				
Fosters positive relationships	<i>Models effective interpersonal behaviors and communication</i>				
	<i>Engages in positive interactions with faculty and peers</i>				
	<i>Seeks to solve problems</i>				
Behaves in a professional manner	<i>Is punctual, attending class sessions consistently and regularly</i>				
	<i>Respects confidentiality</i>				
	<i>Presents self in a personable and professional manner</i>				
	<i>Uses effective and appropriate spoken and written English</i>				
Maintains a high level of competence and integrity	<i>Exhibits interest in, and enthusiasm for, the learning process</i>				
	<i>Adheres to the SUNY Potsdam Academic Honor Code</i>				
	<i>Is prepared and contributes to class discussion</i>				
Willing to take risks and be flexible; shows comfort with uncertainty	<i>Adapts to changes in schedules</i>				
	<i>Shows self-direction in completing work</i>				
Recognizes and respects diversity	<i>Responds appropriately to diverse opinions</i>				
	<i>Creates a climate of inclusion</i>				