

# CHEMISTRY AND BIOCHEMISTRY, BS/ADOLESCENT, MST

**Campus:** NYC

With the B-STEP (Bridge to Secondary Teacher Education Program) Combined Degree Programs, current Chemistry and Biochemistry BS majors can pursue a career in teaching Chemistry to middle and high school students. Choose a single certification option with the Adolescent Education MST (grades 7-12) or the dual certification option combined with Special Education. Graduate coursework will begin during your senior year and continue throughout the summer, with twelve credits serving as BOTH SOE graduate and Dyson undergraduate open elective credits.

Students must apply by the spring semester of their junior year. The bachelor's and master's degrees are both conveyed at the end of the 5th year. Please speak to your Academic Advisor for more information.

Updated: November 6, 2023

For the undergraduate curriculum, please see the undergraduate section of this catalog.

## Adolescent Education (Single Certificate)

Course	Title	Credits
<b>Year 4</b>		
<b>Fall</b>		
CHE 328	Advanced Biochemistry	3
CHE 492	Chemistry Seminar II	1
CHE 480	Research in Chemistry	3
CHE 340	Polymer Chemistry	3
EDG 511A	Child Abuse and Violence Prevention	0
EDG 610	Curriculum and Methods in Inclusive Settings	3
EDG 606	Learning Environments	3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
CHE 333	Advanced Organic Chemistry	3
CHE 330	Advanced Inorganic Chemistry	0-4
EDG 511D	DASA- Harassment, Bullying, Cyberbullying and Discrimination in Schools, Prevention and Intervention	0
EDG 609 or EDG 605	Language, Literacy, and Global Perspectives or General Assessment	3
Open Elective (LC)		3
Open Elective (LC)		3
EDG 614	Science Instruction and Assessment in Inclusive Adolescent Classrooms	3
<b>Credits</b>		<b>15-19</b>
<b>Summer</b>		
EDG 605	General Assessment	3
<b>Credits</b>		<b>3</b>
<b>Year 5</b>		
<b>Fall</b>		
EDG 638	Society, Schools, and Adolescent Development	3
EDG 617	Inclusive Literacy Assessment and Instruction	4
EDG 620	Educational Research for Teaching	3
Dyson or SOE Open Elective (Advised for Financial Aid)		3
<b>Credits</b>		<b>13</b>
<b>Spring</b>		
EDG 621	Seminar in Inclusive	2-3
EDG 622	Clinical Practice in Teaching Adolescents and Teaching Adolescent Students with Disabilities	3

Dyson or SOE Open Elective (Advised for Financial Aid)	3
<b>Credits</b>	<b>8-9</b>
<b>Total Credits</b>	<b>55-60</b>

- Possible SOE Electives include MS extension, bilingual extensions, TESOL/Literature
- Possible Dyson Electives could be related to BIO (just 22 more for dual certified with BIO); already eligible for general science extension
- Possible space for ENV SCI or CIS courses

### Adolescent Special Education (Dual Certificate)

Course	Title	Credits
<b>Year 4</b>		
<b>Fall</b>		
CHE 328	Advanced Biochemistry	3
CHE 340	Polymer Chemistry	3
CHE 492	Chemistry Seminar II	1
CHE 480	Research in Chemistry	3
EDG 610	Curriculum and Methods in Inclusive Settings	3
EDG 606	Learning Environments	3
EDG 511A	Child Abuse and Violence Prevention	0
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
CHE 333	Advanced Organic Chemistry	3
CHE 330	Advanced Inorganic Chemistry	0-4
CHE 329	Advanced Biochemistry Laboratory	0-2
FOR 505	Molecular Biology	3
EDG 614	Science Instruction and Assessment in Inclusive Adolescent Classrooms	3
EDG 511D	DASA- Harassment, Bullying, Cyberbullying and Discrimination in Schools, Prevention and Intervention	0
EDG 605 or EDG 609	General Assessment or Language, Literacy, and Global Perspectives	3
<b>Credits</b>		<b>12-18</b>
<b>Summer</b>		
EDG 609 or EDG 605	Language, Literacy, and Global Perspectives or General Assessment	3
<b>Credits</b>		<b>3</b>
<b>Year 5</b>		
<b>Fall</b>		
EDG 638	Society, Schools, and Adolescent Development	3
EDG 617	Inclusive Literacy Assessment and Instruction	4
EDG 620	Educational Research for Teaching	3
Dyson or SOE Open Elective (Advised for Financial Aid)		3
<b>Credits</b>		<b>13</b>
<b>Spring</b>		
EDG 621	Seminar in Inclusive	2-3
EDG 622	Clinical Practice in Teaching Adolescents and Teaching Adolescent Students with Disabilities	3
Dyson or SOE Open Elective (Advised for Financial Aid)		3
<b>Credits</b>		<b>8-9</b>
<b>Total Credits</b>		<b>52-59</b>

- Possible SOE Electives include MS extension, bilingual extensions, TESOL/Literature
- Possible Dyson Electives could be related to BIO (just 22 more for dual certified with BIO); already eligible for general science extension
- Possible space for ENV SCI or CIS courses