

ADOLESCENCE EDUCATION (BS)

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Introduction

Professional sequences in Adolescence Education give teacher candidates a thorough foundation in the many facets of modern American secondary education and a gradually increasing exposure to the realities of the classroom. A broad range of field experiences, from observation and tutoring to a full semester of student teaching, is an essential part of the curriculum. Each program also includes an integrated sequence of subject-area courses offered by one or more of the academic departments at the college. The Adolescence Education program offers seven certification programs at the Adolescence Level – grades 7 through 12.

Licensure Disclosure

Canisius University cannot determine whether completion of this program would be sufficient to meet licensure requirements outside of New York State for the intended occupation. We advise you to contact your state licensing board or appropriate licensing entity (<https://canisius.atlassian.net/wiki/spaces/AcadAffairs/pages/34964198/Professional+Licensure+Notification/>) to determine whether the program meets requirements for Professional Licensure in the state where you are located or the state in which you intend to pursue licensure. Please contact the associate dean of your school if you have further questions.

Qualifications

Academic criteria for endorsement and completion of the program are as follows: Students must maintain a cumulative GPA of 2.7 or higher and a grade of C or higher in content and pedagogical courses. They must achieve satisfactory performance in field placements. All candidates must complete a minimum of 120 credit hours to graduate.

Advisement

All students should have an advisor in the major and should contact the department directly to have an advisor assigned if they do not already have one. Meetings with academic advisors are required prior to students receiving their PIN for course registration each semester. All majors should work closely with their advisor in discussing career expectations, choosing their major electives, developing their entire academic program and planning their co-curricular or supplemental academic experiences.

In addition, candidates will be assigned an advisor in their respective concentration area.

Double Majors

Students who wish to expand their educational opportunities may decide to declare a double major. This decision may be based on career goals, planned graduate studies, and/or other student interests. Before a student declares a double major, it is important to meet with the appropriate academic departments for advisement. In order to declare a double major, the student must complete the Major/Minor Declaration form. This form will be submitted electronically and reviewed and approved by each department chairperson as well as the appropriate associate dean.

Per university policy, each additional major requires a minimum of 15 credits that do not apply to the student's first or subsequent major. Some double

major combinations can be completed within the minimum 120 credit hour degree requirement, but in other cases additional course work may be required. Please note that students will receive only one degree unless completing the dual degree (<https://catalog.canisius.edu/undergraduate/academics/curricular-information/>) requirement including at least 150 undergraduate credit hours, regardless of the number of majors they complete. Both (all) majors appear on a student's transcript.

Minors in Other Disciplines

Minors provide students the opportunity to pursue additional interests but generally do not require as many courses as a major. Minors generally range from five to eight required courses. To receive a minor, the student must complete at least 9 credit hours of coursework distinct from their other credentials (i.e., majors, other minors). The complete list of minors is available on the Canisius website (<https://www.canisius.edu/academics/programs/undergraduate/?type%5B%5D=17>) and in the catalog (<https://catalog.canisius.edu/undergraduate/minors/>) and provides links to each minor. Some majors and minors can be completed within the minimum 120 credit hour degree requirement, but in some cases additional coursework may be required. Students must complete the appropriate minor request form.

Curriculum

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All undergraduate students must complete either the Canisius Core Curriculum (<http://catalog.canisius.edu/undergraduate/academics/curricular-information/core-curriculum/>) or the All-College Honors Curriculum (<http://catalog.canisius.edu/undergraduate/academics/curricular-information/all-college-honors-program/>). Many schools refer to their college-wide undergraduate requirements as "general education" requirements. We believe that the core curriculum and the honors curriculum are more than a series of required classes; they provide the basis for a Jesuit education both with content and with required knowledge and skills attributes that are central to our mission.

Free Electives

Students may graduate with a bachelor's degree with more but not less than 120 credit hours. Free electives are courses in addition to the Canisius Core Curriculum or All-College Honors Curriculum and major requirements sufficient to reach the minimum number of credits required for graduation. The number of credits required to complete a bachelor's degree may vary depending on the student's major(s) and minor(s).

Major Requirements

The Adolescence Education Major includes the following required courses and an academic concentration. Each of these courses require a grade of C or higher.

Code	Title	Credits
EDS 101	Human Growth and Social Development: Adolescence	3
EDS 223	Foundations of Adolescent Literacy (20 hours of field experience required)	3
EDS 360	Evaluation and Teaching Strategies (30 hours of field experience required)	3
EDS 390	Cognition, Learning and Assessment of Adolescence	3
Choose the appropriate course:		3
EDS 402	Methods of Teaching English: Adolescence (30 hours of field experience required)	3

EDS 403	Methods of Teaching Mathematics: Adolescence (30 hours of field experience required)	
EDS 404	Methods of Teaching Modern Languages: Adolescence (30 hours of field experience required)	
EDS 405	Methods of Teaching Science: Adolescence (30 hours of field experience required)	
EDS 406	Methods of Teaching Social Studies: Adolescence (30 hours of field experience required)	
Choose the appropriate course:		3
EDS 432	Applied Methods of Teaching English: Adolescence (50 hours of field experience required)	
EDS 433	Applied Methods of Teaching Mathematics: Adolescence (50 hours of field experience required)	
EDS 434	Applied Methods of Teaching Modern Languages: Adolescence (50 hours of field experience required)	
EDS 435	Applied Methods of Teaching Science: Adolescence (50 hours of field experience required)	
EDS 436	Applied Methods of Teaching Social Studies (50 hours of field experience required)	
EDS 493	Supervised Student Teaching	12
EDU 100	Exploring the Teaching Profession	3
EDU 250	Foundations of Education	3
EDU 122	Technology in Education	3
EDU 494	Capstone Seminar for Teacher Candidates	3
EDU 495	Child Abuse Workshop	0
EDU 496	Prevention of School Violence Workshop	0
EDU 497	Dignity for All Students Act (DASA) Workshop	0
EDU 498	Student Teaching Seminar	3
SPE 341	Inclusive Strategies	3
Total Credits		48

Major Experiences

New York State requires the successful completion of at least 100 hours of field experience before student teaching. This requirement is divided up among three courses in the major program. EDS 223 has a 20 hour field experience, EDS 360 has a 30 hour field experience, EDS 402-EDS 406 (choose the appropriate course) has a 30 hour field experience and EDS 432-EDS 436 (choose the appropriate course) requires 50 hours. The field experience builds from participatory observation to tutoring or working with small groups to teaching a lesson and then teaching lessons from a learning segment designed by the candidate in the EDS 432-EDS 436 course.

Academic Concentration

Candidates choose from the following areas of certification: Biology, Chemistry, Mathematics, English, Social Studies, or Spanish. Required courses in these content areas are listed below:

Adolescence Biology Concentration

Code	Title	Credits
BIO 111 & 111L	Introductory Biology I and Introductory Biology Laboratory I	4
BIO 112 & 112L	Introductory Biology II and Introductory Biology Laboratory II	4
BIO 211 & 211L	Biochemistry and Cell Biology I and Biochemistry and Cell Biology Lab I	4

BIO 212 & 212L	Biochemistry and Cell Biology II and Biochemistry and Cell Biology Lab II	4
BIO 404	Genetics ¹	3
BIO 450	Molecular Biology ¹	3-4
Choose one of the following ecology courses ¹		3-4
BIO 320	Field Ecology	
BIO 375	Community Ecology	
BIO 377	Freshwater Biology	
Choose one of the following microbiology or physiology courses		4
BIO 305 & 305L	Medical Microbiology and its Ecological Basis and Medical Microbiology and its Ecological Basis Lab	
BIO 307 & 307L	Microbiology and Microbiology Laboratory	
BIO 340 & 340L	Physiology and Physiology Laboratory	

In addition to the required biology classes, students also must complete the following courses:

MAT 111	Calculus I	4
MAT 131	Statistics for Social Sciences	3
or MAT 141	Inferential Statistics and Computers for Science	
CHM 111 & 111L	General Chemistry I and General Chemistry I Laboratory	4
PHY 201 & 201L	College Physics I and College Physics I Laboratory	4
Total Credits		44-46

¹ Students must complete a total of 30 biology credits. To reach that total, students must complete one laboratory associated with one of the following classes: BIO 320, BIO 375, BIO 377, BIO 404, or BIO 450.

For students interested in adding a chemistry certification in addition to biology, the following courses must also be completed.

Code	Title	Credits
CHM 111 & 111L	General Chemistry I and General Chemistry I Laboratory	4
CHM 227 & 227L	Organic Chemistry I and Organic Chemistry I Laboratory	4
CHM 301	Fundamental Physical Chemistry	3
BCH 301 & 301L	Introduction to Biochemistry and Introduction to Biochemistry Laboratory	4
CHM 301	Fundamental Physical Chemistry	3
CHM 381		1
Total Credits		19

Adolescence Chemistry Concentration

Code	Title	Credits
CHM 104	Energy, Environment, and Society	3
CHM 111 & 111L	General Chemistry I and General Chemistry I Laboratory	4
CHM 112 & 112L	General Chemistry II and General Chemistry II Laboratory	4
CHM 227 & 227L	Organic Chemistry I and Organic Chemistry I Laboratory	4

CHM 228 & 228L	Organic Chemistry II and Organic Chemistry II Laboratory	4
CHM 244	Inorganic Chemistry	3
CHM 301 & 301L	Fundamental Physical Chemistry and Fundamental Physical Chemistry Laboratory	4
BCH 301 & 301L	Introduction to Biochemistry and Introduction to Biochemistry Laboratory	4
In addition to the chemistry courses for the concentration, students also must complete the following related courses:		
BIO 111 & 111L	Introductory Biology I and Introductory Biology Laboratory I	4
GEO 325	Introduction to Physical Geography	3
MAT 111	Calculus I ¹	4
One statistics class. Choose one of the following:		3-4
MAT 131	Statistics for Social Sciences	
MAT 141	Inferential Statistics and Computers for Science	
PHY 201 & 201L	College Physics I and College Physics I Laboratory	4
PHY 202 & 202L	College Physics II and College Physics II Laboratory	4

Total Credits 52-53

¹ Students placed in MAT 109 must also complete MAT 110. This sequence will replace MAT 111.

Adolescence Mathematics Concentration

Code	Title	Credits
MAT 111	Calculus I	4
MAT 112	Calculus II	4
MAT 211	Calculus III	4
MAT 219	Linear Algebra	4
MAT 222	Differential Equations	3
MAT 230	Logic, Set Theory, and Proofs	4
MAT 301	History of Mathematics	3
MAT 311	Abstract Algebra	4
MAT 331	Geometry	3
MAT 351	Probability & Statistics I	3
One Math (MAT) elective at the 200-level or higher ¹		3
One Computer Science (CSC) course		3
Total Credits		42

¹ Students may also use MAT 150 or MAT 191 to fulfill this requirement.

Please note that students pursuing the Mathematics Concentration are strongly encouraged to complete a dual major with Adolescence Education and Mathematics and Statistics. To complete the dual major, students must add MAT 321; the series of MAT 380, MAT 381, and MAT 480; and one of the following: MAT 312 or MAT 352.

Adolescence English Concentration

Code	Title	Credits
ENG 299	Introduction to English Studies	3
ENG 322	Shakespeare I	3
One course in Women's Literature (ENG 223, ENG 373, or ENG 382)		3

One course in Multicultural Literature (ENG 213, ENG 368, or ENG 382)	3
One course in Global Literature (ENG 224 or ENG 381)	3
One course in Writing (ENG 294, ENG 383, ENG 385, ENG 388, ENG 389, ENG 391, ENG 392, ENG 393, ENG 411, or ENG 490)	3
One Pre-1800 British Literature course (ENG 233, ENG 305, ENG 306, ENG 347, or ENG 373)	3
One Pre-1900 American Literature course (ENG 315 or ENG 319)	3
One Post-1900 American Literature course (ENG 316 or ENG 369)	3
EDS 370	3
EDU 410	3
or ENG 390 Tutoring Writing	

Total Credits 33

Adolescence Social Studies Concentration

Code	Title	Credits
HIS 107	History of Modern Europe to 1815 (European History)	3
or HIS 108	History of Modern Europe since 1815	
History at 200 Level		3
History at 200 Level		3
HIS 209	History of Asia to 1800	3
or HIS 394	Modern Middle East	
HIS 260	Canada and the World	3
or HIS 264	Latin American History to 1830	
History at the 300 level		3
ECO 101	Principles of Macroeconomics (Economics)	3
or ECO 102	Principles of Microeconomics	
PSC 103	The American Constitution (Political Science)	3
or PSC 104	American Political Process	
PSC 140	International Relations (Political Science)	3
or PSC 150	Comparative Government and Politics	
One Culture Class (see department for current list of courses that fulfill this requirement)		3
GEO 325	Introduction to Physical Geography	3
or HIS 300	Historical Geography	
Total Credits		33

Please note that students pursuing the Social Studies Concentration are strongly encouraged to complete a dual major with Adolescence Education and History.

Adolescence Spanish Concentration

Code	Title	Credits
SPA 215	Communicating in Spanish ¹	3
SPA 217	Intro Comp Panorama SocioCultural Latinoamericano ¹	3
SPA 323	Topics in Conversation I Peninsular Culture and Civilization	3
SPA 324	Topics in Conversation II Latin American Culture and Civilization	3
SPA 332	Advanced Spanish Composition	3
Five Spanish electives		15
Total Credits		30

¹ Students who begin study at the 300-level will have the 200-level courses waived, but still need 10 courses for the concentration.

Middle School Extension

Candidates wishing to obtain an extension to teach grades 5-6 in their area of concentration must take EMC 352 and EMC 391 in addition to the courses listed above.

Roadmap

Recommended Semester Schedule for Major Courses

Freshman

Fall	Spring
EDU 100 (Fall only)	EDU 250
EDS 101 (Fall only)	EDU 495 (Co-requisite with 250)
	EDU 496 (Co-requisite with 250)
	EDU 122

Sophomore

Fall	Spring
SPE 341	EDS 360 (Spring only) (30 hour field experience)
EDS 223 (Fall only) (20 hour field experience)	EDS 390 (Spring only)

Junior

Fall	Spring
EMC 391 (Optional - needed for Middle Childhood Extension) (Fall Only)	EDS 402, 403, 404, 405, or 406 (Methods Class) (Spring Only) (30 hours field experience) ¹
	EMC 352 (Optional- needed for Middle Childhood Extension) (Spring only)

Senior

Fall	Spring
EDS 432, 433, 434, 435, or 436 (Fall Only) (50 hour field experience)	EDS 493
EDU 494 (Fall only)	EDU 493 (Co-requisite with EDU 497)
	EDU 497
	EDU 498

¹ Choose course based on appropriate concentration.

² Note: EDU 122, EDU 250 and SPE 341 are offered every semester. This is just a sample of when you can take things.