

ADOLESCENT EDUCATION MAJOR IN TEACHING CHEMISTRY

Campus: NYC, Westchester

Major Completion Summary

Requirement	Credits
University Core Requirements	61
Major Requirements	64-67
Total Credits	125-128

University Core Requirements

See complete University Core (<https://catalog.pace.edu/undergraduate/university-core-curriculum/>) requirements.

Code	Title	Credits
Foundation Requirements		
ENG 110	Composition	3
ENG 120	Critical Writing	4
ENG 201	Writing in the Disciplines	3
COM 200	Public Speaking	3
LOTE ¹		6
MAT 131	Calculus I	4
CHE 111	General Chemistry I	4
CIS 101	Introduction to Computing	3
UNV 101	First-Year Seminar: Introduction to University Community	1
Areas of Knowledge (AOK)		
AOK 1: Civic Engagement		
TCH 201	Education I: Understanding Schools	
AOK 2: Western Heritage		
AOK 3: World Traditions and Culture		
AOK 4: Humanistic and Creative Expression		
AOK 5: Analysis of Human, Social Natural, Phenomena		
One Additional AOK		
CHE 112	General Chemistry II	4
In-Depth Sequence		
CHE 221	Analytical Methods and Techniques	
CHE 223	Organic Chemistry I	
CHE 224	Organic Chemistry II	
Total Credits		58

Major Requirements

Code	Title	Credits
Chemistry Content Area Requirements		
MAT 132	Calculus II	4
BIO 101	General Biology I	4
PHY 111	General Physics I	4
PHY 112	General Physics II	4
CHE 301	Physical Chemistry I: Quantum Mechanics and Spectroscopy	4
CHE 326	Biochemistry	4
CHE 331	Instrumental Analysis	4
Adolescent Education Major Requirements		
TCH 201	Understanding Schools (AOK 1)	3

TCH 211A	Child Abuse and Violence Prevention	0
TCH 211D	DASA- Harassment, Bullying, Cyberbullying and Discrimination in Schools, Prevention & Intervention	0
TCH 215	Understanding Teaching & Learning: General Curriculum Models & Methods for all Learners	3
TCH 301	Understanding Learning Environments	3
TCH 412	Literacy Instruction in the Secondary School	3
TCH 452	Understanding Language, Culture, and Education	3
TCH 475	Introduction to Special Education	3
TCH 495	Student Teaching in Adolescent Classroom	7
TCH 203	Understanding Development: Childhood and Adolescence in Context	3
TCH 309	Understanding Assessment and Evaluation	3
TCH 316	Fieldwork I: Field Experiences in Adolescent Settings	0-1
TCH 317	Fieldwork II: Field Experiences in Adolescent Settings	0-1
TCH 418	Fieldwork III: Field Experiences in Adolescent Settings	0-1
TCH 419	Student Teaching Seminar in Adolescent Settings	2
TCH 429	Teaching Science to Adolescents	3
Total Credits		64-67

Students completing this program are also eligible for General Science Certification.

Course	Title	Credits
First Year		
Fall		
UNV 101	First-Year Seminar: Introduction to University Community	1
ENG 110	Composition	3
MAT 131	Calculus I	4
CIS 101	Introduction to Computing	3
COM 200	Public Speaking	3
CHE 111	General Chemistry I	4
Credits		18
Spring		
TCH 201	Understanding Schools	3
ENG 120	Critical Writing	4
MAT 132	Calculus II	4
CHE 112	General Chemistry II	4
Western Heritage (AOK2)		3
Credits		18
Second Year		
Fall		
TCH 211A	Child Abuse and Violence Prevention	0
TCH 301	Understanding Learning Environments	3
Analysis of Human, Social, and Natural Phenomena (AOK5)		3
LOTE		3
CHE		3-4
CHE		3
Credits		15-16
Spring		
TCH 203	Understanding Development: Childhood and Adolescence in Context	3
TCH 215	Understanding Teaching & Learning: General Curriculum Models & Methods for all Learners	3
TCH 211D	DASA- Harassment, Bullying, Cyberbullying and Discrimination in Schools, Prevention & Intervention	0
ENG 201	Writing in the Disciplines	3
LOTE		3

CHE		3-4
	Credits	15-16
Third Year		
Fall		
TCH 309	Understanding Assessment and Evaluation	3
TCH 316	Fieldwork I: Field Experiences in Adolescent Settings	0-1
CHE		4
CHE		4
CHE		4
	Credits	15-16
Spring		
TCH 429	Teaching Science to Adolescents	3
TCH 317	Fieldwork II: Field Experiences in Adolescent Settings	0-1
TCH 412	Literacy Instruction in the Secondary School	3
CHE		3
CHE		3
Elective		3
	Credits	15-16
Fourth Year		
Fall		
TCH 452	Understanding Language, Culture, and Education	3
TCH 475	Introduction to Special Education	3
TCH 418	Fieldwork III: Field Experiences in Adolescent Settings	0-1
CHE		4
Elective		3
	Credits	13-14
Spring		
TCH 419	Student Teaching Seminar in Adolescent Settings	2
TCH 495	Student Teaching in Adolescent Classroom	7
Graduate/Elective		3
	Credits	12
	Total Credits	121-126