

Mohawk Valley Community College
L A & S: Childhood Education – General Science Concentration

Utica College
Childhood (Grades 1-6) Certification Program
Science Option - Biology, Chemistry, or Physics
128 Credits

Course #	Course Title	SUNY Gen Ed	Credits Granted	Course #	Equivalent Course Title	Common Core	Credits Accepted
CF100	College Seminar		1	FEL 1FE	Free Elective		1
ED150	Soc & Phil Found of Education		3	EDU 321	EDU 321 Foundations Of American Education		3
EN101	English 1: Composition		3	ENG 101	ENG 101 Written Communication I	Yes	3
PY101	Introduction to Psychology		3	PSY 101	PSY 101 Introduction to Psychology	Yes	3
	Foreign Language (see 'B' below)		3		Foreign Language (see 'B' below)	Yes	3
	Natural Science Elective (see 'A' below)		4		Natural Science Elective (see 'A' below)	Yes	4
	Physical Education		.5		Physical Education		.5
ED205	Child Development		3	PSY 321	PSY 321 Infancy And Childhood		3
EN102	English 2: Ideas & Values in Literature		3	ENG 135	ENG 135 Introduction to Literature	Yes	3
HI111	American History		3	HIS 126	HIS 126 America 1500-1877	Yes	3
OR							
HI112	American History		3	HIS 127	America 1877- to the Present	Yes	3
	Foreign Language (see 'B' below)		3		Foreign Language	Yes	3
	Natural Science Elective (see 'A' below)		4		Natural Science Elective (see 'A' below)	Yes	4
	Physical Education		.5		Physical Education		.5
HI101	History of Civilization1		3	HIS 145	The Pacific World	Yes	3
MA171	Foundations of Mathematics		3	MAT 1LA	Mathematics Elective		3
	Fine Arts Elective (see 'C' below)		3		Fine Arts Elective (see 'C' below)	Yes	3
	Natural Science Elective (see 'A' below)		4		Natural Science Elective (see 'A' below)	Yes	4
	Physical Education		.5		Physical Education		.5
ED211	Introduction to Exceptionalities		3	EDU 215	Diversity, Disabilities, And Success		3
ED240	Children's Literature		3	EDU 314	Children's Literature		3
MA172	Foundations of Mathematics 2		3	MAT 1LA	Mathematics Elective		3
	Natural Science Elective (see 'A' below)		4		Natural Science Elective (see 'A' below)	Yes	3
	Physical Education		.5		Physical Education		.5
			Total Credits Eligible for Transfer	64			
			Total Transfer Credits Applied to Program				64
			Total Credits Required after Transfer				64
			Total Credits Required for Degree				128

- A.) Natural Sciences: BI 141/142, CH141/142, GL101/102, PH141/142, or PH151/152
 B.) Foreign Language (a two course is required in the same language): AL, FL, FR, GR, IT or SP
 C.) Fine Arts (choose one): GC244, HU187, HU204, or HU205

- A.) BIO111+BIO111L, BIO211, BIO101, LAE1LA, LAE1LA, CHE211, GOL225, GOL226, PHY115/116, or PHY151/152
 B.) Foreign Language (a two course sequence is required in the same language): AL, FL, FR, GR, IT, or SP
 C.) Elective Equivalent Courses (choose one): FIA 2LA, FIA 115, FIA 245, or FIA 246

Advisor: _____

Name: _____
 Date admitted into Major: _____
 Transfer credits: _____

BACHELOR OF ARTS -PHYSICS
CHILDHOOD EDUCATION CONCENTRATION (Grades 1- 6)
 Total Credit Hours for Degree 128

Liberal A&S: Childhood Ed
General Education Core waived with completed AS

Education Content Requirements

English Requirement (6 credits)	EN101	3
ENG 101 Written Communication I	EN102	
ENG 135 Introduction to Literature		
Fine Arts Requirement (3 credits)		
FIA 115 Introduction to Art	HU187, 204, 205	
FIA 245 History of Art I	or GC244	
FIA 246 History of Art II		
Foreign Language Requirement (6 credits)*		
Beginning Foreign Language I (101 level) @ MVCC	FL -	
Beginning Foreign Language I (102 level)	MVCC	
	FL	
History Requirement (6 credits)		
TRN 1CV1/2 Transfer-Civilization 1/2	HI101/102	
HIS 126/7 American History (choose 1 class)	HI111/112	
Math Requirement (6 credits)		
LAE 001 Liberal Arts Elective (Mathematics)	MA171	
LAE 001 Liberal Arts Elective (Mathematics)	MA172	
Science Requirement (8 credits)		
Natural Science Elective @ MVCC	4-MVCC	
	4	

Education Program Requirements (46 credits)**
Total Education Content Hours: 35

EDU 111 Introduction to Teaching	1	
EDU 201 Applied Educational Psychology	3	
EDU 215 Diversity/Disabilities & Success	ED211	
EDU 218 Curriculum & Instruction	3	
EDU 301 Foundations of Literacy	ED206	
EDU 302 Literacy/Comprehension	3	
EDU 314 Children's Literature	EN240	
EDU 316 Soc Studies/Literacy Mthd: GR. 1-6	3	
EDU 321 Foundations of American Education	ED150	
EDU 344 Science & Tech Mthd: GR. 1-6	3	
EDU 345 Math Methods: GR. 1-6	3	
PSY 321 Infancy and Childhood	ED205	
EDU 471 Student Teaching Seminar	0	
EDU 475 Student Teaching I	6	
EDU 476 Student Teaching II	6	

Total Education Program Hours: 46

PHYSICS MAJOR

Physics Major Core Course Requirements

Major Course Requirements		
PHY163 How Things Work		3
PHY261P Physics I		(0, 4)
HY262 Physics II		(0, 4)
PHY363 Physics III		(0, 4)
PHY323 Statics and Dynamics (4)		4
Or		
EGR323 Statics and Dynamics		(0, 4)
PHY 351 DC and AC Electronics		
or		
EGR 351 DC and AC Electronics		

25-27 Credits

2-4 credits total in PHY 200/400

PHY 200 Select Topics: Physics	(1-2)
PHY 400 Select Topics: Physics	(1-2)

6 Credit Hours

Physics (300, 400 level) –	6
Physics Electives(2)	

Major-Related Course Requirements
(20 Credit Hours)

CHE 211 General Chemistry I	0,4
CHE 212 General Chemistry II	0,4
CSC 101 Computer Science I	0,3
MAT 201 MAT 201 - Calculus I	3
MAT 202 MAT 202 - Calculus II	3

Select one (not taken as part of the PHY elective requirement above):

MAT 301 Calculus III	3
MAT 302 Calculus IV	
MAT 317 Ordinary Differential Equations	
MAT 321 Probability & Statistics	
MAT 331 Linear Algebra	

Total Education Content Hours: 35

Total Education Program Hours: 46

Hours Required in Major: 53

Total Hours: 134

UCC 101 Free Elective	CF 100
PCL 372 Play in Development	ED203
FEL 002 Free Elective	ED201
PSY 101 General Psychology	PY101
PED 001 Physical Education	PE

*maximum of 3 credits eligible for transfer

* American Sign Language may be taken to fulfill the Foreign Language Requirement for Education, but is not considered liberal arts credit.

**Education classes are not considered liberal arts credit.