

EDUCATION, ASSOCIATE IN ARTS (EDUC)

Effective: Fall 2016

The Education curriculum was developed to meet the needs of current and prospective students interested in transferring to a four-year institution for the purpose of receiving a PA Public School Teacher's Certification. This degree is designed to transfer to middle grades, secondary education, or other four-year certification degree programs. Among colleges and universities there are variances within the first two years at some schools contingent upon the area of PA Public School Certification pursued. Additionally, each of these areas of certification involves different course selections. Properly navigating the EDUC Program requires the guidance and expertise of a Transfer Advisor. To ensure a smooth transfer process to a four-year institution, you are strongly encouraged to work closely with a Transfer Advisor at the Career and Counseling Center.

All students will be required to have Pennsylvania Child Abuse Clearance, Pennsylvania Criminal Clearance, FBI clearance and documentation of current immunizations and TB screening. The background checks should be acquired prior to starting coursework.

Program Outcomes

- Analyze diverse topics within the field of education, including governance, funding, history and philosophical roots, the role of technology, and needs of students from diverse backgrounds.
- Evaluate teaching as a career choice, and discuss job requirements, responsibilities, advantages and disadvantages.
- Recognize and select various methods and resources for effective teaching and learning (including, assessments, classroom management, as well as instructional planning).
- Recognize the diversity of students and student needs (educational, social, cultural, behavioral, academic) as well as the responsibility of a classroom teacher to plan instruction based on identified needs.
- Develop foundational knowledge of a discipline appropriate to teaching in the middle (4-8) or secondary (7-12) grades.

Full-Time Academic Plan

The College Transfer Office (<https://www.dccc.edu/admissions-financial-aid/transfer/transfer-office>) is set up to help Delaware County Community College students transfer to four-year colleges and universities. If you are planning to transfer, you are strongly encouraged to meet with a transfer advisor within your first two semesters (or before you reach 30 transferable college credits from all institutions attended).

First Semester	Hours
EDU 110 Introduction to Teaching	3
ENG 100 English Composition I ^{WC}	3
PSY 140 General Psychology ^{CR}	3
Mathematics (see Pathways) ^{QR}	3-4
Laboratory Science (see Pathways) ^{SI}	4
Hours	16-17
Second Semester	Hours
ENG 112 English Composition II: Writing About Literature ^{IL}	3
PSY 235 Educational Psychology ^{DJ*}	3
HIS 110 American History I ^{GU}	3
or HIS 120 or American History II	

Mathematics (see Pathways)	3-4
Laboratory Science (see Pathways)	4
Hours	16-17
Third Semester	Hours
EDU 208 English Language Learners	3
EDU 220 Introduction to Inclusive Education K-12	3
Social Science Elective	3
POL 120 American National Government (recommended)	
Concentration Elective (see Pathways)	3-4
Concentration Elective (see Pathways)	3-5
Hours	15-18
Fourth Semester	Hours
EDU 206 Teaching with Technology ^{TC}	3
COMM 100 Interpersonal Communication ^{OC}	3
or COMM 111 or Public Speaking	
ENG 250 (Middle Grades) or Humanities Elective (Secondary Grades) ⁴	3
Concentration Elective (see Pathways)	3-4
Concentration Elective (see Pathways)	3-5
Hours	15-18
Total Hours	62-70

Notes

Middle Grades (4-8) Education Pathway

Code	Title	Hours
<i>Social Science Elective</i>		3
POL 120	American National Government	
<i>Mathematics</i>		6
MAT 125	Mathematics for Teachers of Children I ^{QR}	
MAT 126	Mathematics for Teachers of Children II	
<i>Laboratory Science</i>		8
Scientific Inquiry (SI) Designated Laboratory course ²		
Scientific Inquiry (SI) Designated Laboratory course or Transferable Laboratory Science course		
Total Hours		17

Students select a 12-credit discipline concentration based on the subject they wish to teach.

Language Arts Discipline - Middle (4-8)

Code	Title	Hours
Select two courses from different genres:		6
ENG 220	British Literature I	
ENG 221	British Literature II	
ENG 230	American Literature I	
ENG 231	American Literature II	
ENG 240	World Literature I	
ENG 241	World Literature II	
ENG 205	Creative Writing: Introduction	
ENG 208	Creative Writing II - Short Story	
Any Transferable PROGRAM ELECTIVE		3
OPEN ELECTIVE		3
Total Hours		12

Social Studies/History Discipline - Middle (4-8)

Code	Title	Hours
Select three courses:		
HIS 110	American History I	9
HIS 120	American History II	
HIS 150	World Civilizations I	
HIS 160	World Civilizations II	
200-Level HIS Courses		
OPEN ELECTIVE		3
Total Hours		12

Mathematics Discipline - Middle (4-8)

Code	Title	Hours
Select 12 credits from MAT (MAT 151 or above)		
		12

Science Discipline - Middle (4-8)

Code	Title	Hours
Select 12 Credits from BIO, CHE, ESS, PHY		
		12

Secondary Grades (7-12) Education Pathway

Students select a concentration based on the subject they wish to teach.

English Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i>		
Quantitative Reasoning (QR) designated course ¹		6-8
Quantitative Reasoning (QR) designated course or Transferable MAT course ¹		
<i>Laboratory Science</i>		
Scientific Inquiry (SI) Designated Laboratory course ²		8
Scientific Inquiry (SI) Designated Laboratory course or Transferable Laboratory Science course ³		
<i>English Concentration</i>		
ENG 220	British Literature I	3
or ENG 221	British Literature II	
ENG 230	American Literature I	3
or ENG 231	American Literature II	
ENG 240	World Literature I	3
or ENG 241	World Literature II	
Any Transferable PROGRAM ELECTIVES		6
Total Hours		29-31

History Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i>		
Quantitative Reasoning (QR) designated course ¹		6-8
Quantitative Reasoning (QR) designated course or Transferable MAT course ¹		
<i>Laboratory Science</i>		
Scientific Inquiry (SI) Designated Laboratory course ²		8
Scientific Inquiry (SI) Designated Laboratory course or Transferable Laboratory Science course ³		

<i>Humanities Elective</i> ⁴		3
<i>History Concentration</i>		
World History (Select One):		3
HIS 150	World Civilizations I	3
HIS 160	World Civilizations II	
HIS 235	20th Century World History	
Political Science		3
POL 120	American National Government (recommended)	3
200-Level HIS Course		
Any Transferable PROGRAM ELECTIVES		6
Total Hours		32-34

Mathematics Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i>		
MAT 160	Calculus I ^{QR}	8
MAT 161	Calculus II	
<i>Laboratory Science</i>		
Scientific Inquiry (SI) Designated Laboratory course ²		8
Scientific Inquiry (SI) Designated Laboratory course or Transferable Laboratory Science course ³		
<i>Humanities Elective</i> ⁴		3
<i>Mathematics Concentration</i>		
MAT 200	Linear Algebra	3
MAT 260	Calculus III	4
MAT 261	Differential Equations	3
Total Hours		29

Biology Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i>		
MAT 160	Calculus I ^{QR}	7
MAT 210	Statistics ^{QR}	
<i>Laboratory Science</i>		
CHE 110	General Chemistry I ^{SI}	8
CHE 111	General Chemistry II	
<i>Humanities Elective</i> ⁴		3
<i>Biology Concentration</i>		
BIO 110	General Biology I	4
BIO 111	General Biology II	4
BIO 240	General Microbiology	4
or BIO 250	Genetics	
Total Hours		30

Chemistry Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i>		
MAT 160	Calculus I ^{QR}	8
MAT 161	Calculus II	
<i>Laboratory Science</i>		
PHY 131	University Physics I (Take in Semester 3) ^{SI}	8
PHY 132	University Physics II (Take in Semester 4)	
<i>Humanities Elective</i> ⁴		3

Chemistry Concentration		
CHE 110	General Chemistry I (Take in Semester 1)	4
CHE 111	General Chemistry II (Take in Semester 2)	4
CHE 200	Organic Chemistry I	5
CHE 201	Organic Chemistry II	5
Total Hours		37

Physics Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i>		
		8
MAT 160	Calculus I ^{QR}	
MAT 161	Calculus II	
<i>Laboratory Science</i>		
		8
	Scientific Inquiry (SI) Designated Laboratory course ²	
	Scientific Inquiry (SI) Designated Laboratory course or Transferable Laboratory Science course ³	
<i>Humanities Elective</i> ⁴		
		3
<i>Physics Concentration</i>		
		30
PHY 131	University Physics I	4
PHY 132	University Physics II	4
PHY 230	Modern Physics	3
Total Hours		30

Notes:

College Academic Learning Goals

Critical Reasoning (<https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#criticalreasoningtext>)

Diversity and Social Justice (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#DJ_Course_List)

Global Understanding (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#GU_Course_List)

Information Literacy (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#IL_Course_List)

Technology (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#IT_Course_List)

Oral Communication (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#OC_Course_List)

Quantitative Reasoning (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#QR_Course_List)

Scientific Inquiry (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#SR_Course_List)

Written Communication (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#WC_Course_List)

¹Secondary Grades (7-12) may select PSY 242 Adolescent Psychology instead of PSY 235 Educational Psychology.

²MAT 120 Modern College Mathematics or **higher**, but not MAT 125 Mathematics for Teachers of Children I, MAT 126 Mathematics for Teachers of Children II, or MAT 128 Algebra.

³Select SI - Scientific Inquiry course, from linked list above. Students in Science concentrations must take the science discipline courses in sequence.

⁴Select additional SI - Scientific Inquiry course, from linked list above or Transferable Laboratory Science course. Students in Science concentrations must take the science discipline courses in sequence.

⁴Humanities (<https://catalog.dccc.edu/courses/electives/#humanitiestransfertext>)

Part-Time Academic Plan

Course	Title	Hours
First Semester		
ENG 100	English Composition I	3
PSY 140	General Psychology	3
Any transferable Scientific Inquiry (SI) designated science course		3-4
Hours		9-10
Second Semester		
Any transferable Quantitative Reasoning (QR) designated MAT course ¹		3-4
Open Elective		3
ENG 112	English Composition II: Writing About Literature	3
Hours		9-10
Third Semester		
History Elective		3
Math Elective ¹		3-4
Humanities Elective		3
Hours		9-10
Fourth Semester		
Open Elective		3
EDU 206	Teaching with Technology	3
EDU 220	Introduction to Inclusive Education K-12	3
Hours		9
Fifth Semester		
PSY 235 or PSY 242	Educational Psychology or Adolescent Psychology	3
Social Science Elective		3
Education Elective or Open Elective		3
Hours		9
Sixth Semester		
COMM 111	Public Speaking	3
Select one of the following Literature Electives:		3
ENG 220	British Literature I	
ENG 221	British Literature II	
ENG 230	American Literature I	
ENG 231	American Literature II	
ENG 250	Children's Literature	
Laboratory Science Elective		4
Hours		10
Seventh Semester		
Open Elective		3
Education Elective or Open Elective		3
Hours		6
Total Hours		61-64

Middle Grades (4-8) Education Pathway

Code	Title	Hours
<i>Social Science Elective</i>		
		3
POL 120	American National Government	
<i>Mathematics</i>		
		6
MAT 125	Mathematics for Teachers of Children I ^{QR}	
MAT 126	Mathematics for Teachers of Children II	
<i>Laboratory Science</i>		
		8
	Scientific Inquiry (SI) Designated Laboratory course ²	

Scientific Inquiry (SI) Designated Laboratory course or Transferable Laboratory Science course

Total Hours 17

Students select a 12-credit discipline concentration based on the subject they wish to teach.

Language Arts Discipline - Middle (4-8)

Code	Title	Hours
Select two courses from different genres: 6		
ENG 220	British Literature I	
ENG 221	British Literature II	
ENG 230	American Literature I	
ENG 231	American Literature II	
ENG 240	World Literature I	
ENG 241	World Literature II	
ENG 205	Creative Writing: Introduction	
ENG 208	Creative Writing II - Short Story	
Any Transferable PROGRAM ELECTIVE		3
OPEN ELECTIVE		3
Total Hours		12

Social Studies/History Discipline - Middle (4-8)

Code	Title	Hours
Select three courses: 9		
HIS 110	American History I	
HIS 120	American History II	
HIS 150	World Civilizations I	
HIS 160	World Civilizations II	
200-Level HIS Courses		
OPEN ELECTIVE		3
Total Hours		12

Mathematics Discipline - Middle (4-8)

Code	Title	Hours
Select 12 credits from MAT (MAT 151 or above)		12

Science Discipline - Middle (4-8)

Code	Title	Hours
Select 12 Credits from BIO, CHE, ESS, PHY		12

Secondary Grades (7-12) Education Pathway

Students select a concentration based on the subject they wish to teach.

English Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i> 6-8		
Quantitative Reasoning (QR) designated course ¹		
Quantitative Reasoning (QR) designated course or Transferable MAT course ¹		
<i>Laboratory Science</i> 8		
Scientific Inquiry (SI) Designated Laboratory course ²		

Scientific Inquiry (SI) Designated Laboratory course or Transferable Laboratory Science course³

English Concentration

ENG 220	British Literature I	3
or ENG 221	British Literature II	
ENG 230	American Literature I	3
or ENG 231	American Literature II	
ENG 240	World Literature I	3
or ENG 241	World Literature II	
Any Transferable PROGRAM ELECTIVES		6
Total Hours		29-31

History Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i> 6-8		
Quantitative Reasoning (QR) designated course ¹		
Quantitative Reasoning (QR) designated course or Transferable MAT course ¹		
<i>Laboratory Science</i> 8		
Scientific Inquiry (SI) Designated Laboratory course ²		
Scientific Inquiry (SI) Designated Laboratory course or Transferable Laboratory Science course ³		
<i>Humanities Elective</i> ⁴		3
<i>History Concentration</i>		
World History (Select One):		3
HIS 150	World Civilizations I	
HIS 160	World Civilizations II	
HIS 235	20th Century World History	
Political Science		3
POL 120	American National Government (recommended)	
200-Level HIS Course		3
Any Transferable PROGRAM ELECTIVES		6
Total Hours		32-34

Mathematics Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i> 8		
MAT 160	Calculus I ^{QR}	
MAT 161	Calculus II	
<i>Laboratory Science</i> 8		
Scientific Inquiry (SI) Designated Laboratory course ²		
Scientific Inquiry (SI) Designated Laboratory course or Transferable Laboratory Science course ³		
<i>Humanities Elective</i> ⁴		3
<i>Mathematics Concentration</i>		
MAT 200	Linear Algebra	3
MAT 260	Calculus III	4
MAT 261	Differential Equations	3
Total Hours		29

Biology Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i>		7
MAT 160	Calculus I ^{QR}	
MAT 210	Statistics ^{QR}	
<i>Laboratory Science</i>		8
CHE 110	General Chemistry I ^{SI}	
CHE 111	General Chemistry II	
<i>Humanities Elective</i> ⁴		3
<i>Biology Concentration</i>		
BIO 110	General Biology I	4
BIO 111	General Biology II	4
BIO 240 or BIO 250	General Microbiology Genetics	4
Total Hours		30

Chemistry Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i>		8
MAT 160	Calculus I ^{QR}	
MAT 161	Calculus II	
<i>Laboratory Science</i>		8
PHY 131	University Physics I (Take in Semester 3) ^{SI}	
PHY 132	University Physics II (Take in Semester 4)	
<i>Humanities Elective</i> ⁴		3
<i>Chemistry Concentration</i>		
CHE 110	General Chemistry I (Take in Semester 1)	4
CHE 111	General Chemistry II (Take in Semester 2)	4
CHE 200	Organic Chemistry I	5
CHE 201	Organic Chemistry II	5
Total Hours		37

Physics Discipline - Secondary (7-12)

Code	Title	Hours
<i>Mathematics</i>		8
MAT 160	Calculus I ^{QR}	
MAT 161	Calculus II	
<i>Laboratory Science</i>		8
Scientific Inquiry (SI) Designated Laboratory course ²		
Scientific Inquiry (SI) Designated Laboratory course or Transferable Laboratory Science course ³		
<i>Humanities Elective</i> ⁴		3
<i>Physics Concentration</i>		
PHY 131	University Physics I	4
PHY 132	University Physics II	4
PHY 230	Modern Physics	3
Total Hours		30

Notes:**College Academic Learning Goals**

Critical Reasoning (<https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#criticalreasoningtext>)

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Oral Communication (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#OC_Course_List)

Quantitative Reasoning (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#QR_Course_List)

Scientific Inquiry (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#SR_Course_List)

Written Communication (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#WC_Course_List)

Secondary Grades (7-12) may select PSY 242 Adolescent Psychology instead of PSY 235 Educational Psychology.

MAT 120 Modern College Mathematics or *higher*, but not MAT 125 Mathematics for Teachers of Children I, MAT 126 Mathematics for Teachers of Children II, or MAT 128 Algebra.

Select SI - Scientific Inquiry course, from linked list above. Students in Science concentrations must take the science discipline courses in sequence.

Select additional SI - Scientific Inquiry course, from linked list above or Transferable Laboratory Science course. Students in Science concentrations must take the science discipline courses in sequence.

Humanities (<https://catalog.dccc.edu/courses/electives/#humanitiestransfertext>)

Campus Locations**HYBRID DEGREE (online and classroom)**

85% online

The following courses may not be available online:

Code	Title	Hours
Classroom Only		
	Scientific Inquiry (SI) designated course.	4
COMM 111	Public Speaking	3

Career