

SECONDARY EDUCATION

Program Overview

Since 1913, Rider University's College of Education and Human Services has made a difference in the lives of future teachers with its commitment to excellence. The College of Education and Human Services (CEHS) keeps its programs relevant to the changing needs of students, the professional communities it serves, and society.

The College of Education and Human Services prepares students to be effective educators. CEHS is accredited by the Council for the Accreditation of Education Preparation (CAEP) (<http://caepnet.org/>), the highest accreditation possible in teacher education and we offer graduates added value and recognition nationwide when seeking employment or admission to graduate study.

Preparation to teach a particular academic subject is accomplished through a program requiring completion of the major requirements of the appropriate liberal arts or science major, general studies, and professional education major requirements.

Curriculum Overview

Areas of study for secondary education at Rider are English education, foreign language education: Spanish, history education, mathematics education, and science education (biochemistry, biology, chemistry, earth sciences, environmental sciences, marine sciences).

In addition, secondary education majors can elect to pursue the following minors, certifications and endorsements: English as a second language; bilingual education; or interdisciplinary minor in special education.

Degree Offered

- B.A. in Secondary Education

Contact

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Program Website: Secondary Education (<http://www.rider.edu/academics/colleges-schools/college-liberal-arts-education-sciences/school-of-education/undergraduate-teacher-education/>)

Associated Department: Teacher Education (<http://www.rider.edu/academics/colleges-schools/college-liberal-arts-education-sciences/school-of-education/undergraduate-teacher-education/>)

Accreditation: Council for the Accreditation of Education Preparation (CAEP) (<http://caepnet.org/>)

Related Programs

- Elementary Education (<http://catalog.rider.edu/undergraduate/colleges-schools/education/majors-minors-certificates/elementary-education-ba/>)

Secondary Education Major Requirements

Preparation to teach a particular academic subject in secondary education is accomplished through a program requiring completion of

the major requirements of the appropriate liberal arts or science major, general studies and professional education major requirements. In addition to completing these requirements, all Rider University students are required to complete the Engaged Learning (<https://www.rider.edu/academics/engaged-learning/about/>) requirements.

Second major/options include:

- English Education (p. 1)
- Foreign Language Education: Spanish (p. 2)
- History Education (p. 2)
- Mathematics Education (p. 3)
- Science Education: (Biochemistry (p. 3), Biology (p. 4), Chemistry, (p. 5) Earth Sciences (p. 5), or Environmental Sciences (p. 6))

English Education Major Requirements

General Studies and Academic Major (99 credits)

Code	Title	Credits
CMP 120 or BHP 100	Seminar in Writing and Rhetoric Honors Seminar: Great Ideas I	3
CMP 125 or BHP 150	Seminar in Writing and Research Honors Seminar: Great Ideas II	3
MTH 150	Mathematics for Education Majors I	3
PSY 100	Introduction to Psychology	3
COM 104	Speech Communication	3
EDU 106	Contexts Of Schooling	3
EDU 206	Developmental Education Psychology	3
	Science elective	3
	Fine Arts elective	3
	Philosophy elective	3
	Journalism or Media elective	3
	History elective	3
	Social Science elective	3
	Technology elective(s)	3
	Foreign Language elective ¹	3
	General Studies electives	15
Total Credits		60

English Major Requirements (39 credits)

See the requirements for the English major listed in the College of Arts and Sciences (<http://catalog.rider.edu/undergraduate/colleges-schools/arts-sciences/majors-minors-certificates/english/>) section.

Professional Education Courses (27 credits)

Code	Title	Credits
Methodology, curriculum and instruction courses with associated field experiences ²		
SED 370	Teaching in the High School	3
ELD 395	Literacy Learning in the Middle School	3

SED 400	Teaching English Language Arts in the Secondary School	3
SED 431	Content Area Reading and Writing	3
SPE 300	Inclusive Practices for General Education Teachers	3
EDU 465	Student Teaching and Seminar ³	12
Total Credits		27

¹ For proper course placement please visit this website (<https://www.rider.edu/student-life/first-year-experience/orientation/placement-testing/>).

² ALL students must show evidence of having taken and passed all sections of the Praxis Core Academic Skills For Educators Test prior to being able to register for ALL education methods courses.

³ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. In addition, students must present evidence of a passing score on the Praxis Content Knowledge for Teaching Assessments test for their specific subject area six months prior to student teaching (by March 1 for those students applying for student teaching in the fall semester and July 1 for those students applying for student teaching in the spring).

Foreign Language Education (Spanish) Major Requirements

General Studies and Academic Major (96-99 credits minimum)¹

Code	Title	Credits
CMP 120 or BHP 100	Seminar in Writing and Rhetoric ² Honors Seminar: Great Ideas I	3
CMP 125 or BHP 150	Seminar in Writing and Research Honors Seminar: Great Ideas II	3
PSY 100	Introduction to Psychology	3
MTH 150	Mathematics for Education Majors I ²	3
COM 104	Speech Communication	3
EDU 106	Contexts Of Schooling	3
EDU 206	Developmental Education Psychology	3
Anthropology elective		3
Fine Arts elective		3
History elective		3
Philosophy elective		3
Technology elective		3
Science elective		3
General Studies electives		0-12
Basic Foreign Language courses ³		0-12
Total Credits		39-63

Spanish Major Requirements

(30 semester hours beyond the Spanish 200 level courses and 12 semester hours in collateral liberal arts courses.) See the requirements for the Spanish major listed in the College of Arts and Sciences section (<http://catalog.rider.edu/undergraduate/colleges-schools/arts-sciences/majors-minors-certificates/spanish/>). (<http://catalog.rider.edu/>

[undergraduate/colleges-schools/liberal-arts-sciences/majors-minors-certificates/spanish/](http://catalog.rider.edu/undergraduate/colleges-schools/liberal-arts-sciences/majors-minors-certificates/spanish/))

Professional Education Courses (27 credits)

Code	Title	Credits
Methodology, curriculum and instruction courses with associated field experiences: ⁴		
EDU 320	Introduction to Linguistics and Psycholinguistics	3
SED 370	Teaching in the High School	3
EDU 420	Teaching a Second Language	3
SED 431	Content Area Reading and Writing	3
SPE 300	Inclusive Practices for General Education Teachers	3
Capstone professional semester of full-time student teaching:		
EDU 465	Student Teaching and Seminar ⁵	12
Total Credits		27

¹ Study Abroad may substitute for some of these courses.

² For proper course placement please visit this website (<https://www.rider.edu/student-life/first-year-experience/orientation/placement-testing/>).

³ Students with advanced standing in Spanish take liberal arts electives.

⁴ ALL students must show evidence of having taken and passed all sections of the Praxis Core Academic Skills For Educators Test prior to being able to register for ALL education methods courses.

⁵ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. In addition, students must present evidence of a passing score on the Praxis Content Knowledge for Teaching Assessments test for their specific subject area six months prior to student teaching (by March 1 for those students applying for student teaching in the fall semester and July 1 for those students applying for student teaching in the spring).

History Education Major Requirements

General Studies and Academic Major (60-63 credits)

Code	Title	Credits
CMP 120 or BHP 100	Seminar in Writing and Rhetoric Honors Seminar: Great Ideas I	3
CMP 125 or BHP 150	Seminar in Writing and Research Honors Seminar: Great Ideas II	3
COM 104	Speech Communication	3
MTH 150	Mathematics for Education Majors I	3
POL 100	U.S. Politics in Crisis	3
PSY 100	Introduction to Psychology	3
SOC 101	Sociological Imagination	3
ECO 200	Principles of Macroeconomics	3
EDU 106	Contexts Of Schooling	3
EDU 206	Developmental Education Psychology	3
Anthropology elective		3
World History		6
Science Elective		3

Philosophy elective	3
Technology elective	3
Fine Arts elective	3
Foreign Language elective ¹	3
General Studies electives	3
Total Credits	57

History Major Requirements

(36-39 credits)

See the requirements for the History major listed in the College of Arts and Sciences section (<http://catalog.rider.edu/undergraduate/colleges-schools/arts-sciences/majors-minors-certificates/history/>).

Professional Education Requirements

(27 credits)

Code	Title	Credits
Methodology, curriculum and instruction courses with associated field experiences: ²		
ELD 390	Teaching Social Studies in the Middle School	3
SED 370	Teaching in the High School	3
SED 405	Teaching Social Studies in Secondary Schools	3
SED 431	Content Area Reading and Writing	3
SPE 300	Inclusive Practices for General Education Teachers	3
Capstone professional semester of full-time student teaching:		
EDU 465	Student Teaching and Seminar ³	12
Total Credits		27

¹ For proper course placement please visit this website (<https://www.rider.edu/student-life/first-year-experience/orientation/placement-testing/>).

² ALL students must show evidence of having taken and passed all sections of the Praxis Core Academic Skills For Educators Test prior to being able to register for ALL education methods courses.

³ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. In addition, students must present evidence of a passing score on the Praxis Content Knowledge for Teaching Assessments test for their specific subject area six months prior to student teaching (by March 1 for those students applying for student teaching in the fall semester and July 1 for those students applying for student teaching in the spring).

Mathematics Education Requirements

General Studies and Academic Major

(96-99 credits)

Code	Title	Credits
CMP 120	Seminar in Writing and Rhetoric	3
or BHP 100	Honors Seminar: Great Ideas I	
CMP 125	Seminar in Writing and Research	3
or BHP 150	Honors Seminar: Great Ideas II	
PSY 100	Introduction to Psychology	3
COM 104	Speech Communication	3
EDU 106	Contexts Of Schooling	3

EDU 206	Developmental Education Psychology	3
Social Science elective		3
History elective		3
Fine Arts elective		3
Literature elective		3
Philosophy elective		3
Technology elective		3
Foreign Language elective ¹		3
General Studies electives		10
Total Credits		49

Mathematics Major Requirements

(50 credits)

See the requirements for the Mathematics major listed in the College of Arts and Sciences section (<http://catalog.rider.edu/undergraduate/colleges-schools/arts-sciences/majors-minors-certificates/mathematics/>).

Professional Education Requirements

(27 credits)

Code	Title	Credits
Methodology, curriculum, and instruction courses with associated field experiences: ²		
ELD 380	Methods of Teaching Mathematics in the Middle School	3
SED 370	Teaching in the High School	3
SED 415	Teaching Mathematics in Secondary Schools	3
SED 431	Content Area Reading and Writing	3
SPE 300	Inclusive Practices for General Education Teachers	3
Capstone professional semester of full-time student teaching:		
EDU 465	Student Teaching and Seminar ³	12
Total Credits		27

¹ For proper course placement please visit this website (<https://www.rider.edu/student-life/first-year-experience/orientation/placement-testing/>).

² ALL students must show evidence of having taken and passed all sections of the Praxis Core Academic Skills For Educators Test prior to being able to register for ALL education methods courses.

³ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. In addition, students must present evidence of a passing score on the Praxis Content Knowledge for Teaching Assessments Test for their specific subject area six months prior to student teaching (by March 1 for those students applying for student teaching in the fall semester and July 1 for those students applying for student teaching in the spring).

Science Education (Biochemistry) Major Requirements

General Studies and Academic Major

(136 credits)

Code	Title	Credits
CMP 120 or BHP 100	Seminar in Writing and Rhetoric Honors Seminar: Great Ideas I	3
CMP 125 or BHP 150	Seminar in Writing and Research Honors Seminar: Great Ideas II	3
PSY 100	Introduction to Psychology	3
COM 104	Speech Communication	3
EDU 106	Contexts Of Schooling	3
EDU 206	Developmental Education Psychology	3
Social Science elective		3
Fine Arts elective		3
Foreign language elective ¹		3
History elective		3
Literature elective		3
Philosophy elective		3
Technology elective		3
Total Credits		39

Biochemistry Major Requirements (70 credits minimum)

See the requirements for the Biochemistry major listed in the College of Arts and Sciences section (<http://catalog.rider.edu/undergraduate/colleges-schools/arts-sciences/majors-minors-certificates/biochemistry/>).

Professional Education (27 credits)

Code	Title	Credits
Methodology, curriculum and instruction courses with associated field experiences: ²		
ELD 385	Teaching Science in the Middle School	3
SED 370	Teaching in the High School	3
SED 410	Teaching Science in Secondary Schools	3
SED 431	Content Area Reading and Writing	3
SPE 300	Inclusive Practices for General Education Teachers	3
Capstone professional semester of full-time student teaching:		
EDU 465	Student Teaching and Seminar ³	12
Total Credits		27

¹ For proper course placement please visit this website (<https://www.rider.edu/student-life/first-year-experience/orientation/placement-testing/>).

² ALL students must show evidence of having taken and passed all sections of the Praxis Core Academic Skills For Educators Test prior to being able to register for ALL education methods courses.

³ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. In addition, students must present evidence of a passing score on the Praxis Content Knowledge for Teaching Assessments test for their specific subject area six months prior to student teaching (by March 1 for those students applying for student teaching in the fall semester and July 1 for those students applying for student teaching in the spring).

Science Education (Biology) Major Requirements

General Studies and Academic Major (99-101 credits)

Code	Title	Credits
CMP 120 or BHP 100	Seminar in Writing and Rhetoric Honors Seminar: Great Ideas I	3
CMP 125 or BHP 150	Seminar in Writing and Research Honors Seminar: Great Ideas II	3
PSY 100	Introduction to Psychology	3
COM 104	Speech Communication	3
EDU 106	Contexts Of Schooling	3
EDU 206	Developmental Education Psychology	3
Social Science elective		3
Fine Arts elective		3
Foreign Language elective ¹		3
General Studies Electives		11
History elective		3
Literature elective		3
Philosophy elective		3
Technology elective		3
Total Credits		50

Biology Major Requirements (49-51 credits)

See the requirements for the Biology major listed in the College of Arts and Sciences section (<http://catalog.rider.edu/undergraduate/colleges-schools/arts-sciences/majors-minors-certificates/biology/>).

Professional Education (27 credits)

Code	Title	Credits
Methodology, curriculum and instruction courses with associated field experiences: ²		
ELD 385	Teaching Science in the Middle School	3
SED 370	Teaching in the High School	3
SED 410	Teaching Science in Secondary Schools	3
SED 431	Content Area Reading and Writing	3
SPE 300	Inclusive Practices for General Education Teachers	3
Capstone professional semester of full-time student teaching:		
EDU 465	Student Teaching and Seminar ³	12
Total Credits		27

¹ For proper course placement please visit this website (<https://www.rider.edu/student-life/first-year-experience/orientation/placement-testing/>).

² ALL students must show evidence of having taken and passed all sections of the Praxis Core Academic Skills For Educators Test prior to being able to register for ALL education methods courses.

³ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. In addition, students must present evidence of a passing score on the Praxis Content Knowledge for Teaching Assessments test for their specific subject area six months prior to student teaching (by March 1 for those students applying for student teaching in the fall semester

and July 1 for those students applying for student teaching in the spring).

Science Education (Chemistry) Major Requirements

General Studies and Academic Major

(102 credits)

Code	Title	Credits
CMP 120	Seminar in Writing and Rhetoric	3
or BHP 100	Honors Seminar: Great Ideas I	
CMP 125	Seminar in Writing and Research	3
or BHP 150	Honors Seminar: Great Ideas II	
PSY 100	Introduction to Psychology	3
COM 104	Speech Communication	3
EDU 106	Contexts Of Schooling	3
EDU 206	Developmental Education Psychology	3
Social Science elective		3
Fine Arts elective		3
Foreign Language elective ¹		3
History elective		3
Literature elective		3
Philosophy elective		3
Technology elective		3
General Studies electives		8
Total Credits		47

Chemistry Major Requirements

(52 credits)

See the requirements for the Chemistry (B.A.) major listed in College of Arts and Sciences section (<http://catalog.rider.edu/undergraduate/colleges-schools/arts-sciences/majors-minors-certificates/chemistry/>).

Professional Education

(27 credits)

Code	Title	Credits
Methodology curriculum and instruction courses with associated field experiences: ²		
ELD 385	Teaching Science in the Middle School	3
SED 370	Teaching in the High School	3
SED 410	Teaching Science in Secondary Schools	3
SED 431	Content Area Reading and Writing	3
SPE 300	Inclusive Practices for General Education Teachers	3
Capstone professional semester of full-time student teaching:		
EDU 465	Student Teaching and Seminar ³	12
Total Credits		27

¹ For proper course placement please visit this website (<https://www.rider.edu/student-life/first-year-experience/orientation/placement-testing/>).

² ALL students must show evidence of having taken and passed all sections of the Praxis Core Academic Skills For Educators Test prior to being able to register for ALL education methods courses.

³ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. In addition, students must present evidence of a passing score on the Praxis Content Knowledge for Teaching Assessments test for their specific subject area six months prior to student teaching (by March 1 for those students applying for student teaching in the fall semester and July 1 for those students applying for student teaching in the spring).

Science Education (Earth Sciences) Major Requirements

General Studies and Academic Major

(102 credits)

Code	Title	Credits
CMP 120	Seminar in Writing and Rhetoric	3
or BHP 100	Honors Seminar: Great Ideas I	
CMP 125	Seminar in Writing and Research	3
or BHP 150	Honors Seminar: Great Ideas II	
PSY 100	Introduction to Psychology	3
COM 104	Speech Communication	3
EDU 106	Contexts Of Schooling	3
EDU 206	Developmental Education Psychology	3
MTH 105	Algebra and Trigonometry ¹	4
or MTH 210	Calculus I	
Fine Arts elective		3
Foreign Language elective ¹		3
General Studies electives		5
History elective		3
Literature elective		3
Philosophy elective		3
Social Science elective		3
Technology elective		3
Total Credits		48

Earth Sciences Major Requirements

(51-54 credits)

See the requirements for the Earth Sciences major listed in the College of Arts and Sciences section (<http://catalog.rider.edu/undergraduate/colleges-schools/arts-sciences/majors-minors-certificates/earth-sciences/>).

Professional Education

(27credits)

Code	Title	Credits
Methodology, curriculum and instruction courses with associated field experiences: ²		
ELD 385	Teaching Science in the Middle School	3
SED 370	Teaching in the High School	3
SED 410	Teaching Science in Secondary Schools	3
SED 431	Content Area Reading and Writing	3
SPE 300	Inclusive Practices for General Education Teachers	3
Capstone professional semester of full-time student teaching:		

EDU 465	Student Teaching and Seminar ³	12
Total Credits		27

¹ For proper course placement please visit this website (<https://www.rider.edu/student-life/first-year-experience/orientation/placement-testing/>).

² ALL students must show evidence of having taken and passed all sections of the Praxis Core Academic Skills For Educators Test prior to being able to register for ALL Education Methods Courses.

³ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. In addition, students must present evidence of a passing score on the Praxis Content Knowledge for Teaching Assessments test for their specific subject area six months prior to student teaching (by March 1 for those students applying for student teaching in the fall semester and July 1 for those students applying for student teaching in the spring).

Science Education (Environmental Sciences) Major Requirements

General Studies and Academic Major
(107-108 credits)

Code	Title	Credits
CMP 120 or BHP 100	Seminar in Writing and Rhetoric Honors Seminar: Great Ideas I	3
CMP 125 or BHP 150	Seminar in Writing and Research Honors Seminar: Great Ideas II	3
PSY 100	Introduction to Psychology	3
COM 104	Speech Communication	3
EDU 106	Contexts Of Schooling	3
EDU 206	Developmental Education Psychology	3
Social Science elective		3
MTH 105 or MTH 210	Algebra and Trigonometry Calculus I	4
Fine Arts elective		3
Foreign Language elective ¹		3
History elective		3
Literature elective		3
Philosophy elective		3
Technology elective		3
Total Credits		43

Environmental Sciences Major Requirements
(64-65 credits)

See the requirements for the Environmental Sciences major listed in the College of Arts and Sciences section (<http://catalog.rider.edu/undergraduate/colleges-schools/arts-sciences/majors-minors-certificates/environmental-sciences/>).

Professional Education
(27credits)

Code	Title	Credits
Methodology, curriculum and instruction courses with associated field experiences: ²		
ELD 385	Teaching Science in the Middle School	3
SED 370	Teaching in the High School	3
SED 410	Teaching Science in Secondary Schools	3
SED 431	Content Area Reading and Writing	3
SPE 300	Inclusive Practices for General Education Teachers	3
Capstone professional semester of full-time student teaching:		
EDU 465	Student Teaching and Seminar ³	12
Total Credits		27

¹ For proper course placement please visit this website (<https://www.rider.edu/student-life/first-year-experience/orientation/placement-testing/>).

² ALL students must show evidence of having taken and passed all sections of the Praxis Core Academic Skills For Educators Test prior to being able to register for ALL education methods courses.

³ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. In addition, students must present evidence of a passing score on the Praxis Content Knowledge for Teaching Assessments test for their specific subject area six months prior to student teaching (by March 1 for those students applying for student teaching in the fall semester and July 1 for those students applying for student teaching in the spring).

Secondary Education Minor Requirements

Undergraduate secondary education majors can elect to pursue the following minors, certifications and endorsements:

- Bilingual Education (p. 6)
- English as a Second Language (ESL) (p. 7)
- Secondary Education and Interdisciplinary Minor in Special Education (p. 7)

Bilingual Education

Certification in bilingual education is available to secondary education majors in the areas of Math, Science, Social Studies and English who upon completion of the program have demonstrated competence in both English and another language. Candidates for this certification will complete:

Code	Title	Credits
Multicultural Studies elective		3
EDU 320	Introduction to Linguistics and Psycholinguistics	3
EDU 358	Literacy and the Bilingual/Bicultural Child	3
EDU 420	Teaching a Second Language	3
EDU 460	Educating and Evaluating the Bilingual Child	3
Bilingual field experiences are required.		

Language proficiency evaluations are required.

For information regarding this program please contact:

Maria Villalobos-Buehner, Ph.D.

Associate Professor
Fine Arts 354
609-895-5596
mvillalobos@rider.edu

English as a Second Language

Certification in English as a second language (ESL) is available to elementary and secondary education majors. It may be achieved by an additional 3-6 semester hours by majors in English or foreign language (French or Spanish). All candidates for this certification will complete:

Code	Title	Credits
	Multicultural Studies elective	3
EDU 320	Introduction to Linguistics and Psycholinguistics	3
EDU 358	Literacy and the Bilingual/Bicultural Child	3
EDU 420	Teaching a Second Language	3
EDU 460	Educating and Evaluating the Bilingual Child	3

English as a Second Language field experiences are required.

English proficiency evaluations are required.

For information regarding this program please contact:

Maria Villalobos-Buehner, Ph.D.

Associate Professor
Fine Arts 354
609-895-5596
mvillalobos@rider.edu

Secondary Education and Interdisciplinary Minor in Special Education

The secondary education interdisciplinary minor in special education curriculum is an additional option for students majoring in secondary education and a content area who wish to effectively work with students with disabilities, particularly in inclusive settings. This program includes the courses required by the New Jersey Department of Education for a Teacher of Students with Disabilities licensure endorsement. The following courses are required for this program:

Code	Title	Credits
SPE 201	Foundations in Special Education and Inclusive Practice	3
SPE 202	Teaching Students with Autism Spectrum Disorder and Low-Incidence Disabilities	3
SPE 303	Assessment and Instruction for Students with Disabilities	3
SPE 304	Assessment and Instruction in the Inclusive Classroom	3
PSY 212	Introduction to Applied Behavior Analysis	3
PSY 237	Cognitive Disabilities	3
TEC 404	Assistive and Augmentative Technology for Autism Spectrum Disorders and Other Disabilities	3

For information regarding this program please contact:

Diane Casale-Giannola, Ed.D.

Professor
Bierenbaum Fisher Hall 102E
609-896-5078
dgiannola@rider.edu

Academic Plans of Study

The following educational plan is provided as a sample only. Rider students who do not declare a major during their freshman year; who are in a Continuing Education Program; who change their major; or who transfer to Rider may follow a different plan to ensure a timely graduation. Each student, with guidance from their academic advisor, will develop a personalized educational plan.

- Secondary Education / Biochemistry (p. 7)
- Secondary Education / Biology (p. 8)
- Secondary Education / Chemistry (p. 9)
- Secondary Education / Earth Sciences (p. 10)
- Secondary Education / English Literature (p. 11)
- Secondary Education / English Writing (p. 12)
- Secondary Education / Environmental Sciences (p. 13)
- Secondary Education / History (p. 14)
- Secondary Education / Mathematics (p. 15)
- Secondary Education / Spanish (p. 16)

Academic Plan for Secondary Education / Biochemistry

The following educational plan is provided as a sample only. Rider students who do not declare a major during their freshman year; who are in a Continuing Education Program; who change their major; or who transfer to Rider may follow a different plan to ensure a timely graduation. Each student, with guidance from their academic advisor, will develop a personalized educational plan.

Course	Title	Credits
Year 1		
Fall Semester		
BIO 115 & 115L	Principles of Biology I and Principles of Biology I Lab	4
CHE 120	Principles of Chemistry	3
CHE 121	Principles of Chemistry Lab	1
CMP 120	Seminar in Writing and Rhetoric	3
EDU 101	First Year and Transfer Education Seminar	1
MTH 210	Calculus I ¹	4
Semester Credit Hours		16
Spring Semester		
BIO 116 & 116L	Principles of Biology II and Principles of Biology II Lab	4
CHE 122	Intro to Chemical Systems	3
CHE 123	Quantitative Methods Lab	1
CMP 125	Seminar in Writing and Research	3

MTH 211	Calculus II	4
Technology Elective		3
Semester Credit Hours		18
Year 2		
Fall Semester		
BIO 260 & 260L	Principles of Biology: Evolution, Diversity, and Biology of Cells and Principle of Biology: Cells Lab	4
CHE 211 & 211L	Organic Chemistry I and Organic Chemistry I Lab	4
COM 104	Speech Communication	3
Foreign Language Elective ¹		3
History Elective		3
Semester Credit Hours		17
Spring Semester		
BIO 265 & 265L	Genetics and Genetics Lab	4
CHE 214 & 214L	Organic Chemistry II and Organic Chemistry II Lab	4
EDU 106	Contexts Of Schooling ²	3
EDU 206	Developmental Education Psychology ²	3
PSY 100	Introduction to Psychology	3
Semester Credit Hours		17
Year 3		
Fall Semester		
BCH 325	Biochemistry	3
BCH 326	Biochem and Enzymology I Lab	1
CHE 250 & 250L	Quantitative Analysis and Statistics Methods and Quantitative Analysis and Statistical Methods Lab	4
SPE 300	Inclusive Practices for General Education Teachers ³	3
Select one of two courses from one Physics track ⁴		4
Social Science Elective		3
Semester Credit Hours		18
Spring Semester		
BCH 400	Advanced Biochemistry	3
BCH 430	Advanced Lab Techniques in Biochemistry	1
ELD 385	Teaching Science in the Middle School ⁵	3
SED 431	Content Area Reading and Writing	3
Select second course from Physics Track ⁴		4
Literature Elective		3
Semester Credit Hours		17
Year 4		
Fall Semester		
BCH 490	Independent Study: Research and Creative Expression	1-4
CHE 305	Physical Chemistry I	3
SED 370	Teaching in the High School	3
SED 410	Teaching Science in Secondary Schools ⁶	3
Advanced Biochemistry Elective Course		3
AdvancedBiochemistry Elective Course		3

Philosophy Course		3
Semester Credit Hours		19-22
Spring Semester		
EDU 465	Student Teaching and Seminar ⁷	12
Fine Arts Elective		3
Semester Credit Hours		15
Total Credit Hours for Graduation		137-140

¹ For proper course placement please visit this website (<https://www.rider.edu/about/offices-services/transition-programs/new-student-orientation/placement-testing/>). (<http://www.rider.edu/offices-services/orientation/course-placement/>)

² EDU 106 and EDU 206 must be taken concurrently in either the fall or spring of the second year.

³ Special Education minors should replace this course with a General Studies Elective.

⁴ Select one of the following tracks: PHY 100, PHY 100L and PHY 201, PHY 201L or PHY 200, PHY 200L and PHY 201, PHY 201L.

⁵ ELD 385 is offered in spring semester only.

⁶ SED 410 is offered in fall semester only.

⁷ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465 (<http://catalog.rider.edu/search/?P=EDU%20465>). All students must have passed the appropriate Praxis Subject matter Assessment for their certification area six months prior to beginning student teaching.

Academic Plan for Secondary Education / Biology

The following educational plan is provided as a sample only. Rider students who do not declare a major during their freshman year; who are in a Continuing Education Program; who change their major; or who transfer to Rider may follow a different plan to ensure a timely graduation. Each student, with guidance from their academic advisor, will develop a personalized educational plan.

Course	Title	Credits
Year 1		
Fall Semester		
BIO 115 & 115L	Principles of Biology I and Principles of Biology I Lab	4
CHE 120	Principles of Chemistry	3
CHE 121	Principles of Chemistry Lab	1
CMP 120	Seminar in Writing and Rhetoric	3
EDU 101	First Year and Transfer Education Seminar	1
MTH 105	Algebra and Trigonometry ¹	4
Semester Credit Hours		16
Spring Semester		
BIO 116 & 116L	Principles of Biology II and Principles of Biology II Lab	4
CHE 122	Intro to Chemical Systems	3
CHE 123	Quantitative Methods Lab	1
CMP 125	Seminar in Writing and Research	3

MTH 210 or BNS 250	Calculus I or Biostatistics	4
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Semester Credit Hours 15

Year 2

Fall Semester

BIO 260 & 260L	Principles of Biology: Evolution, Diversity, and Biology of Cells and Principle of Biology: Cells Lab	4
CHE 211 & 211L	Organic Chemistry I and Organic Chemistry I Lab	4
PSY 100	Introduction to Psychology	3
Foreign Language Elective ¹		3
Philosophy Elective		3

Semester Credit Hours 17

Spring Semester

BIO 265 & 265L	Genetics and Genetics Lab	4
COM 104	Speech Communication	3
EDU 106	Contexts Of Schooling ²	3
EDU 206	Developmental Education Psychology ²	3
Technology Elective		3

Semester Credit Hours 16

Year 3

Fall Semester

SPE 300	Inclusive Practices for General Education Teachers ³	3
History Elective		3
Choose either sequence		4
PHY 100 & 100L	Principles of Physics I and Principles of Physics I Lab	4
OR		
PHY 200 & 200L	General Physics I and General Physics I Lab	
One Upper-Level BIO, BCH or BNS Elective		4

Semester Credit Hours 18

Spring Semester

ELD 385	Teaching Science in the Middle School ⁴	3
BIO 350 & 350L	General Ecology and General Ecology Lab	4
SED 431	Content Area Reading and Writing	3
Social Science Elective		3
Select one of the following:		4
PHY 101 & 101L	Principles of Physics II and Principles of Physics II Lab	
or		
PHY 201	General Physics II	

Semester Credit Hours 17

Year 4

Fall Semester

BIO 400	Seminar in Cellular and Molecular Biology	3
Fine Arts Elective		3
SED 370	Teaching in the High School	3
SED 410	Teaching Science in Secondary Schools ⁵	3

Literature Elective	3
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Semester Credit Hours 15

Spring Semester

EDU 465	Student Teaching and Seminar ⁶	12
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Semester Credit Hours 12

Total Credit Hours for Graduation 126

¹ For proper course placement please visit this website (<https://www.rider.edu/about/offices-services/transition-programs/new-student-orientation/placement-testing/>). (<http://www.rider.edu/offices-services/orientation/course-placement/>)

² EDU 106 and EDU 206 must be taken concurrently in either the fall or spring of the second year.

³ Special Education minors should replace this course with a General Studies Elective.

⁴ ELD 385 is offered in spring semester only.

⁵ SED 410 is offered in fall semester only.

⁶ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. All students must have passed the appropriate Praxis Subject Matter Assessment for their certification area six months prior to beginning student teaching.

Academic Plan for Secondary Education / Chemistry

The following educational plan is provided as a sample only. Rider students who do not declare a major during their freshman year; who are in a Continuing Education Program; who change their major; or who transfer to Rider may follow a different plan to ensure a timely graduation. Each student, with guidance from their academic advisor, will develop a personalized educational plan.

Course	Title	Credits
Year 1		
Fall Semester		
CHE 120	Principles of Chemistry	3
CHE 121	Principles of Chemistry Lab	1
CMP 120	Seminar in Writing and Rhetoric	3
EDU 101	First Year and Transfer Education Seminar	1
MTH 210	Calculus I ¹	4
Foreign Language Elective ¹		3
Technology Elective		3

Semester Credit Hours 18

Spring Semester

CHE 122	Intro to Chemical Systems	3
CHE 123	Quantitative Methods Lab	1
CMP 125	Seminar in Writing and Research	3
MTH 211	Calculus II	4
PSY 100	Introduction to Psychology	3

Semester Credit Hours 14

Year 2**Fall Semester**

CHE 211 & 211L	Organic Chemistry I and Organic Chemistry I Lab	4
COM 104	Speech Communication	3
History Elective		3
Select one of two courses from either Physics track ²		4
Semester Credit Hours		14

Spring Semester

CHE 214 & 214L	Organic Chemistry II and Organic Chemistry II Lab	4
EDU 106	Contexts Of Schooling ³	3
EDU 206	Developmental Education Psychology ³	3
Fine Arts Elective		3
Select second course from Physics Track ²		4
Semester Credit Hours		17

Year 3**Fall Semester**

BCH 325	Biochemistry	3
CHE 250 & 250L	Quantitative Analysis and Statistics Methods and Quantitative Analysis and Statistical Methods Lab	4
CHE 305	Physical Chemistry I	3
SPE 300	Inclusive Practices for General Education Teachers ⁴	3
Literature Elective		3
Semester Credit Hours		16

Spring Semester

ELD 385	Teaching Science in the Middle School ⁵	3
SED 431	Content Area Reading and Writing	3
One 300-level CHE or BCH Elective		3
General Studies Elective		3
Philosophy Elective		3
Social Science Elective		3
Semester Credit Hours		18

Year 4**Fall Semester**

BCH 490	Independent Study: Research and Creative Expression	3
CHE 305	Physical Chemistry I	3
SED 370	Teaching in the High School	3
SED 410	Teaching Science in Secondary Schools ⁶	3
Advanced Laboratory Course		4
Semester Credit Hours		16

Spring Semester

EDU 465	Student Teaching and Seminar ⁷	12
Semester Credit Hours		12
Total Credit Hours for Graduation		125

² Select two courses from one Physics track - PHY 100, PHY 100L and PHY 101, PHY 101L or PHY 200, PHY 200L and PHY 201, PHY 201L.

³ EDU 106 and EDU 206 must be taken concurrently in either the fall or spring of the second year.

⁴ Special Education minors should replace this course with a General Studies Elective.

⁵ ELD 385 is offered in spring semester only.

⁶ SED 410 is offered in fall semester only.

⁷ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. All students must have passed the appropriate Praxis Subject Matter Assessment for their certification area six months prior to beginning student teaching.

Academic Plan for Secondary Education / Earth Sciences

The following educational plan is provided as a sample only. Rider students who do not declare a major during their freshman year; who are in a Continuing Education Program; who change their major; or who transfer to Rider may follow a different plan to ensure a timely graduation. Each student, with guidance from their academic advisor, will develop a personalized educational plan.

Course	Title	Credits
Year 1		
Fall Semester		
CMP 120	Seminar in Writing and Rhetoric	3
EDU 101	First Year and Transfer Education Seminar	1
MAR 120	Oceanography	3
MAR 121	Introductory Oceanography Lab	1
MTH 105	Algebra and Trigonometry ¹	4
PHY 180	Astronomy	3
PSY 100	Introduction to Psychology	3
Semester Credit Hours		18
Spring Semester		
CMP 125	Seminar in Writing and Research	3
GEO 100	Earth Systems Science	3
GEO 102	Earth Materials and Processes Lab	1
COM 104	Speech Communication	3
ENV 220	Weather and Climate Change	3
Foreign Language Elective ¹		3
Semester Credit Hours		16
Year 2		
Fall Semester		
CHE 120	Principles of Chemistry	3
CHE 121	Principles of Chemistry Lab	1
ENV 200 & 200L	Statistical and Computer Applications in the Natural Sciences and Statistical and Computer Applications in the Natural Sciences Lab	4
History Elective		3
Literature Elective		3

¹ For proper course placement please visit this website (<https://www.rider.edu/about/offices-services/transition-programs/new-student-orientation/placement-testing/>). (<http://www.rider.edu/offices-services/orientation/course-placement/>)

Technology Elective	3
Semester Credit Hours	17
Spring Semester	
EDU 106 Contexts Of Schooling ³	3
EDU 206 Developmental Education Psychology ³	3
ENV 200 Statistical and Computer Applications in the Natural Sciences	4
& 200L and Statistical and Computer Applications in the Natural Sciences Lab (or another requirement for Foundational courses or Concentration requirements)	
One Major Concentration Requirement or Elective ²	3-4
Philosophy Elective	3
Semester Credit Hours	16-17
Year 3	
Fall Semester	
ENV 340 Field Methods and Data Analysis (or other Major Concentration Requirement or Elective)	3
SPE 300 Inclusive Practices for General Education Teachers	3
Fine Arts Elective	3
Social Science Elective	3
One Major Concentration Requirement or Elective ²	4
Semester Credit Hours	16
Spring Semester	
ELD 385 Teaching Science in the Middle School	3
SED 431 Content Area Reading and Writing	3
General Studies Elective	3
Two Major Concentration Requirements or Electives ²	6-8
Semester Credit Hours	15-17
Year 4	
Fall Semester	
SED 370 Teaching in the High School	3
SED 410 Teaching Science in Secondary Schools	3
Two Major Concentration Requirements or Elective ²	6-8
Semester Credit Hours	12-14
Spring Semester	
EDU 465 Student Teaching and Seminar ⁴	12
Semester Credit Hours	12
Total Credit Hours for Graduation	122-127

¹ For proper course placement please visit this website (<https://www.rider.edu/about/offices-services/transition-programs/new-student-orientation/placement-testing/>). (<http://www.rider.edu/offices-services/orientation/course-placement/>)

² Courses selected should be made with approval from Earth Sciences academic advisor.

³ EDU 106 and EDU 206 must be taken concurrently in either the fall or spring of the second year.

⁴ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. All students must have passed the appropriate Praxis Subject matter Assessment for their certification area six months prior to beginning student teaching.

Academic Plan for Secondary Education / English Literature

The following educational plan is provided as a sample only. Rider students who do not declare a major during their freshman year; who are in a Continuing Education Program; who change their major; or who transfer to Rider may follow a different plan to ensure a timely graduation. Each student, with guidance from their academic advisor, will develop a personalized educational plan.

Course	Title	Credits
Year 1		
Fall Semester		
CMP 120	Seminar in Writing and Rhetoric	3
COM 104	Speech Communication	3
EDU 101	First Year and Transfer Education Seminar	1
MTH 150	Mathematics for Education Majors I	3
PSY 100	Introduction to Psychology	3
History Elective		3
Semester Credit Hours		16
Spring Semester		
CMP 125	Seminar in Writing and Research	3
Foreign Language Elective ¹		3
Journalism/Media Elective		3
Science Elective		3
Social Science Elective		3
Semester Credit Hours		15
Year 2		
Fall Semester		
EDU 106	Contexts Of Schooling ²	3
EDU 206	Developmental Education Psychology ²	3
ENG 240	Contemporary Literary Lenses	3
or ENG 245	or Creativity	
ENG 250	Literary History I	3
Technology Elective		3
Semester Credit Hours		15
Spring Semester		
ENG 251	Literary History II	3
SPE 300	Inclusive Practices for General Education Teachers	3
Fine Arts Elective		3
General Studies Elective		3
Philosophy Elective		3
World Literature Elective		3
Semester Credit Hours		18
Year 3		
Fall Semester		
ENG 300 Level Course (Lang & Ling/Historical Survey Category)		3
ENG 300 Level Course (Lang & Ling/Historical Survey Category)		3
ENG 300 Level (Genre/Theoretical/Sub-Genre Category)		3
Foundations of Language Elective		3

Theater Elective	3
Semester Credit Hours	15
Spring Semester	
SED 370 Teaching in the High School	3
SED 400 Teaching English Language Arts in the Secondary School	3
ENG 300 Level (Genre/Theoretical/Sub-Genre Category)	3
ENG 300 Level Course (Lang & Ling/Historical Survey Category)	3
ENG 300 Level Course (Lang & Ling/Historical Survey Category)	3
General Studies Elective	3
Semester Credit Hours	18
Year 4	
Fall Semester	
ELD 395 Literacy Learning in the Middle School	3
SED 431 Content Area Reading and Writing	3
ENG 300 or 400 Level Course (Any Category)	3
ENG 300 or 400 Level Course (Any Category)	3
ENG 400 Level Course (Any Category)	3
ENG 400 Level (Seminar II Category)	3
Semester Credit Hours	18
Spring Semester	
EDU 465 Student Teaching and Seminar ³	12
Semester Credit Hours	12
Total Credit Hours for Graduation	127

¹ For proper course placement please visit this website (<https://www.rider.edu/about/offices-services/transition-programs/new-student-orientation/placement-testing/>). (<http://www.rider.edu/offices-services/orientation/course-placement/>)

² EDU 106 and EDU 206 must be taken concurrently in either the fall or spring of the second year.

³ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. All students must have passed the appropriate Praxis Subject Matter Assessment for their certification area six months prior to beginning student teaching.

Academic Plan for Secondary Education / English Writing

The following educational plan is provided as a sample only. Rider students who do not declare a major during their freshman year; who are in a Continuing Education Program; who change their major; or who transfer to Rider may follow a different plan to ensure a timely graduation. Each student, with guidance from their academic advisor, will develop a personalized educational plan.

Course	Title	Credits
Year 1		
Fall Semester		
CMP 120	Seminar in Writing and Rhetoric	3
COM 104	Speech Communication	3
EDU 101	First Year and Transfer Education Seminar	1
MTH 150	Mathematics for Education Majors I	3
PSY 100	Introduction to Psychology	3
History Elective		3
Semester Credit Hours		16
Spring Semester		
CMP 125	Seminar in Writing and Research	3
ENG 206	Introduction to Creative Writing	3
Foreign Language Elective ¹		3
General Studies Elective		3
Science Elective		3
Semester Credit Hours		15
Year 2		
Fall Semester		
EDU 106	Contexts Of Schooling ²	3
EDU 206	Developmental Education Psychology ²	3
ENG 240	Contemporary Literary Lenses	3
or ENG 245	or Creativity	
ENG 250	Literary History I	3
Philosophy Elective		3
Semester Credit Hours		15
Spring Semester		
ENG 251	Literary History II	3
SPE 300	Inclusive Practices for General Education Teachers	3
ENG 300 Level Writing/Genre Course		3
Fine Arts Elective		3
World Literature Elective		3
Technology Elective		3
Semester Credit Hours		18
Year 3		
Fall Semester		
ENG 300 Level Literature Course		3
ENG 300 Level Writing/Genre Course		3
ENG 300 Level Writing/Genre Course		3
Foundations of Language Elective		3
Social Science Elective		3
Theatre Elective		3
Semester Credit Hours		18
Spring Semester		
SED 370	Teaching in the High School	3
SED 400	Teaching English Language Arts in the Secondary School	3
ENG 300 Literature Course		3
ENG 300 Level Writing/Genre Course		3
ENG 300 Level Writing Course		3
Semester Credit Hours		15

Year 4**Fall Semester**

ELD 395	Literacy Learning in the Middle School	3
SED 431	Content Area Reading and Writing	3
ENG 300 Level Writing Course		3
General Studies Elective		3
ENG 400 Level Writing Course		3

Semester Credit Hours	15
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Spring Semester

EDU 465	Student Teaching and Seminar ³	12
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Semester Credit Hours	12
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Total Credit Hours for Graduation	124
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¹ For proper course placement please visit this website (<https://www.rider.edu/about/offices-services/transition-programs/new-student-orientation/placement-testing/>). (<http://www.rider.edu/offices-services/orientation/course-placement/>)

² EDU 106 and EDU 206 must be taken concurrently in either the fall or spring of the second year.

⁴ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. All students must have passed the appropriate Praxis Subject Matter Assessment for their certification area six months prior to beginning student teaching.

Academic Plan for Secondary Education / Environmental Sciences

The following educational plan is provided as a sample only. Rider students who do not declare a major during their freshman year; who are in a Continuing Education Program; who change their major; or who transfer to Rider may follow a different plan to ensure a timely graduation. Each student, with guidance from their academic advisor, will develop a personalized educational plan.

Course	Title	Credits
Year 1		
Fall Semester		
CMP 120	Seminar in Writing and Rhetoric	3
EDU 101	First Year and Transfer Education Seminar	1
BIO 115 & 115L	Principles of Biology I and Principles of Biology I Lab	4
ENV 100 & 100L	Introduction to Environmental Sciences and Introduction to Environmental Sciences Lab	4
MTH 105	Algebra and Trigonometry ¹	4
Environmental Science Elective		3-4
Semester Credit Hours		19-20
Spring Semester		
BIO 116 & 116L	Principles of Biology II and Principles of Biology II Lab	4
CMP 125	Seminar in Writing and Research	3
COM 104	Speech Communication	3

GEO 100	Earth Systems Science	3
GEO 102	Earth Materials and Processes Lab	1
PSY 100	Introduction to Psychology	3
Semester Credit Hours		17

Year 2**Fall Semester**

CHE 120	Principles of Chemistry	3
CHE 121	Principles of Chemistry Lab	1
ENV 200 & 200L	Statistical and Computer Applications in the Natural Sciences and Statistical and Computer Applications in the Natural Sciences Lab	4
MAR 120	Oceanography	3
Foreign Language Elective ¹		3
History Elective		3

Semester Credit Hours	17
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Spring Semester

CHE 122	Intro to Chemical Systems	3
CHE 123	Quantitative Methods Lab	1
EDU 106	Contexts Of Schooling ²	3
EDU 206	Developmental Education Psychology ²	3
ENV 220	Weather and Climate Change	3
Environmental Science Elective		3-4
Technology Elective		3

Semester Credit Hours	19-20
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Year 3**Fall Semester**

BIO 350 & 350L	General Ecology and General Ecology Lab	4
ENV 205	Introduction to Geographic Information Systems	3
PHY 100	Principles of Physics I	3
PHY 100L	Principles of Physics I Lab	1
SPE 300	Inclusive Practices for General Education Teachers	3
Philosophy Elective		3

Semester Credit Hours	17
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Spring Semester

ELD 385	Teaching Science in the Middle School	3
SED 431	Content Area Reading and Writing	3
GEO 350 & 350L or GEO 407	Soil and Surficial Processes or Hydrology and Water Resources	4
Environmental Science Elective		3-4
Technology Elective		3

Semester Credit Hours	16-17
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Year 4**Fall Semester**

BCH 225 & 225L	Introduction to Organic and Biochemistry and Introduction to Organic & Biochemistry Lab	4
SED 370	Teaching in the High School	3
SED 410	Teaching Science in Secondary Schools	3

Fine Arts Elective	3
Literature Elective	3
Social Science Elective	3
Semester Credit Hours	19
Spring Semester	
EDU 465 Student Teaching and Seminar ³	12
Semester Credit Hours	12
Total Credit Hours for Graduation	136-139

¹ For proper course placement please visit this website (<https://www.rider.edu/about/offices-services/transition-programs/new-student-orientation/placement-testing/>). (<http://www.rider.edu/offices-services/orientation/course-placement/>)

² EDU 106 and EDU 206 must be taken concurrently in either the fall or spring of the second year.

³ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. All students must have passed the appropriate Praxis Subject matter Assessment for their certification area six months prior to beginning student teaching.

Academic Plan for Secondary Education / History

The following educational plan is provided as a sample only. Rider students who do not declare a major during their freshman year; who are in a Continuing Education Program; who change their major; or who transfer to Rider may follow a different plan to ensure a timely graduation. Each student, with guidance from their academic advisor, will develop a personalized educational plan.

Course	Title	Credits
Year 1		
Fall Semester		
CMP 120	Seminar in Writing and Rhetoric	3
HIS 150	Pre-Modern World: Evolution to Revolution	3
HIS 160	Seminar in History	3
Foreign Language Elective ¹		3
MTH 150	Mathematics for Education Majors I	3
EDU 101	First Year and Transfer Education Seminar	1
Semester Credit Hours		16
Spring Semester		
CMP 125	Seminar in Writing and Research	3
COM 104	Speech Communication	3
HIS 151 or HIS 152 or HIS 153	World in the Modern Era: Exploration to Globalization or Contemporary World: Historical Perspectives or Cold War: A Global History	3
HIS 180 or HIS 181	U.S. History I or U.S. History II	3
PSY 100	Introduction to Psychology	3
Semester Credit Hours		15

Year 2

Fall Semester

HIS 190 or HIS 191	Europe to 1715 or Europe Since 1715	3
SOC 101	Sociological Imagination	3
Upper Level History Elective (HIS 200-399) ²		3
Fine Arts Elective		3
Science Elective		3
Technology Elective		3
Semester Credit Hours		18

Spring Semester

EDU 106	Contexts Of Schooling ³	3
EDU 206	Developmental Education Psychology ³	3
POL 100	U.S. Politics in Crisis	3
General Studies Elective		3
Upper level History Elective (HIS 200-399) ²		3
Upper level History Elective (HIS 200-399) ²		3
Semester Credit Hours		18

Year 3

Fall Semester

ECO 200	Principles of Macroeconomics	3
HIS 260	Craft of History	3
SOC 110 or SOC 311	Cultural Anthropology or Social and Cultural Change	3
SPE 300	Inclusive Practices for General Education Teachers ⁴	3
Two Upper level History Electives (HIS 200-399) ²		6
Semester Credit Hours		18

Spring Semester

ELD 390	Teaching Social Studies in the Middle School	3
SED 431	Content Area Reading and Writing	3
Philosophy Elective		3
Two Upper Level History Electives (HIS 200-399) or		6
HIS 491	Internship in History	
Semester Credit Hours		15

Year 4

Fall Semester

SED 370	Teaching in the High School	3
SED 405	Teaching Social Studies in Secondary Schools	3
HIS 460 or HIS 490	Research Seminar or Independent Study: Research and Creative Expression	3
Upper Level History Elective (HIS 200-399) ²		3
Literature Elective		3
Semester Credit Hours		15

Spring Semester

EDU 465	Student Teaching and Seminar ⁵	12
Semester Credit Hours		12
Total Credit Hours for Graduation		127

¹ For proper course placement please visit this website (<https://www.rider.edu/about/offices-services/transition-programs/new-student-orientation/placement-testing/>)

student-orientation/placement-testing/). (<http://www.rider.edu/offices-services/orientation/course-placement/>)

² Program must include at least two courses at the 200 level and at least two at the 300 level. At least two courses must be Diversity courses.

³ EDU 106 and EDU 206 must be taken concurrently in either the fall or spring of the second year.

⁴ Special Education minors should replace this course with a General Studies Elective.

⁵ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. All students must have passed the appropriate Praxis Subject matter Assessment for their certification area six months prior to beginning student teaching.

Academic Plan for Secondary Education / Mathematics

The following educational plan is provided as a sample only. Rider students who do not declare a major during their freshman year; who are in a Continuing Education Program; who change their major; or who transfer to Rider may follow a different plan to ensure a timely graduation. Each student, with guidance from their academic advisor, will develop a personalized educational plan.

Course	Title	Credits
Year 1		
Fall Semester		
CMP 120	Seminar in Writing and Rhetoric	3
EDU 101	First Year and Transfer Education Seminar	1
COM 104	Speech Communication	3
Foreign Language Elective ¹		3
MTH 210	Calculus I ¹	4
History Elective		3
Semester Credit Hours		17
Spring Semester		
CMP 125	Seminar in Writing and Research	3
MTH 211	Calculus II	4
PSY 100	Introduction to Psychology	3
Social Science Elective		3
Fine Arts Elective		3
Semester Credit Hours		16
Year 2		
Fall Semester		
MTH 212	Calculus III	4
MTH 240	Linear Algebra	3
Literature Elective		3
PHY 200 & 200L	General Physics I and General Physics I Lab	4
Technology Elective		3
Semester Credit Hours		17
Spring Semester		
EDU 106	Contexts Of Schooling ²	3
EDU 206	Developmental Education Psychology ²	3
MTH 250	Differential Equations	3

MTH 315	Modern Geometry	3
PHY 201 & 201L	General Physics II and General Physics II Lab	4

Semester Credit Hours 16

Year 3

Fall Semester

MTH 308	Advanced Calculus	3
MTH 340	Probability & Statistical Analysis I	3
SPE 300	Inclusive Practices for General Education Teachers ³	3
General Studies Elective		3
General Studies Elective		3
Philosophy Elective		3

Semester Credit Hours 18

Spring Semester

ELD 380	Methods of Teaching Mathematics in the Middle School	3
MTH 410	Complex Analysis	3
SED 431	Content Area Reading and Writing	3
Upper Level Math Elective ⁵		3
General Studies Elective		3
General Studies Elective		1

Semester Credit Hours 16

Year 4

Fall Semester

MTH 401	Modern Algebra	3
Upper Level Math Elective ⁴		3
Upper Level Math Elective ⁴		3
SED 370	Teaching in the High School	3
SED 415	Teaching Mathematics in Secondary Schools	3

Semester Credit Hours 15

Spring Semester

EDU 465	Student Teaching and Seminar ⁵	12
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Semester Credit Hours 12

Total Credit Hours for Graduation 127

¹ For proper course placement please visit this website (<https://www.rider.edu/about/offices-services/transition-programs/new-student-orientation/placement-testing/>). (<http://www.rider.edu/offices-services/orientation/course-placement/>)

² EDU 106 and EDU 206 must be taken concurrently in either the fall or spring of the second year.

³ Special Education minors should replace this course with a General Studies Elective.

⁴ Upper level math electives include: MTH 402, MTH 420, MTH 430 and MTH 440. MTH 402 may, with the permission of the department, be taken more than once for credit. MTH 490, Independent Study and Research, may also be used to satisfy this requirement.

⁵ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. All students must have passed the appropriate Praxis Subject matter Assessment for their certification area six months prior to beginning student teaching.

Academic Plan for Secondary Education / Spanish

The following educational plan is provided as a sample only. Rider students who do not declare a major during their freshman year; who are in a Continuing Education Program; who change their major; or who transfer to Rider may follow a different plan to ensure a timely graduation. Each student, with guidance from their academic advisor, will develop a personalized educational plan.

Course	Title	Credits
Year 1		
Fall Semester		
CMP 120	Seminar in Writing and Rhetoric	3
COM 104	Speech Communication	3
EDU 101	First Year and Transfer Education Seminar	1
MTH 150	Mathematics for Education Majors I	3
PSY 100	Introduction to Psychology	3
SPA 200	Spanish III ¹	3
Semester Credit Hours		16
Spring Semester		
CMP 125	Seminar in Writing and Research	3
SPA 201	Spanish IV	3
SPA 310	Spanish Culture & Civilization	3
or SPA 311	or Latin American and Latinx Cultures	
or SPA 312	or Latinx Cultures	
History Elective		3
Science Elective (bio/phy)		3
Semester Credit Hours		15
Year 2		
Fall Semester		
SOC 110	Cultural Anthropology	3
SPA 300	Advanced Grammar & Composition	3
or SPA 302	or Writing and Translating	
SPA 320	Introduction to Spanish Literature	3
Fine Arts Elective		3
Select one of the following:		3
CHI 100	Chinese I	
FRE 100	French I	
GER 100	German I	
ITA 100	Italian I	
Semester Credit Hours		15
Spring Semester		
EDU 106	Contexts Of Schooling ²	3
EDU 206	Developmental Education Psychology ²	3
SPA 301	Spanish for Business	3
or SPA 303	or Advanced Communication and Popular Cultures	
SPA 325	Introduction to Latin-American/Latino Literature	3
Select one of the following:		3
CHI 101	Chinese II	

FRE 101	French II	
GER 101	German II	
ITA 101	Italian II	
General Studies Elective		3
Semester Credit Hours		18
Year 3		
Fall Semester		
LIT 250	Masterworks of Western Literature I	3
Select one of the following:		3
CHI 200	Chinese III	
FRE 200	French III	
GER 200	German III	
ITA 200	Italian III	
SPA 312	Latinx Cultures	3
or SPA 420	or From Colonies to Nations	
SPE 300	Inclusive Practices for General Education Teachers ³	3
General Studies Elective		3
Technology Elective		3
Semester Credit Hours		18
Spring Semester		
EDU 320	Introduction to Linguistics and Psycholinguistics ⁴	3
LIT 251	Masterworks of Western Literature II	3
SED 431	Content Area Reading and Writing	3
SPA 305	Cervantes	3
or SPA 403	or Medieval Literature	
	or Spanish Renaissance	
	or The Spanish Golden Age	
or SPA 415		
or SPA 416		
SPA 426	Latin American/Latino Film and Fiction	3
Semester Credit Hours		15
Year 4		
Fall Semester		
SED 370	Teaching in the High School	3
EDU 420	Teaching a Second Language ⁵	3
SPA 410	Modern Hispanic Poetry	3
or SPA 411	or Modern Spanish Novel	
	or Theater and Film of the Hispanic World	
or SPA 412	or The Hispanic Short Story: Transatlantic Connections	
or SPA 413		
SPA 490	Independent Study: Research and Creative Expression	3
General Studies Elective		3
Philosophy Elective		3
Semester Credit Hours		18
Spring Semester		
EDU 465	Student Teaching and Seminar ⁶	12
Semester Credit Hours		12
Total Credit Hours for Graduation		127

¹ For proper course placement please visit this website (<https://www.rider.edu/about/offices-services/transition-programs/new-student-orientation/placement-testing/>). (<http://www.rider.edu/offices-services/orientation/course-placement/>)

² EDU 106 and EDU 206 must be taken concurrently in either the fall or spring of the second year.

³ Special Education minors should replace this course with a General Studies Elective.

⁴ EDU 320 offered spring semester only.

⁵ EDU 420 offered fall semester only.

⁶ Students must have a "C+" or higher in all education courses and a minimum cumulative GPA of 3.0 before enrolling in EDU 465. All students must have passed the appropriate Praxis Subject matter Assessment for their certification area six months prior to beginning student teaching.

Courses and Descriptions

EDU 101 First Year and Transfer Education Seminar 1 Credits

First year/transfer seminar provides an engaging orientation to the undergraduate teacher education program at Rider University. During this course, students new to the Department of Teacher Education will explore their beliefs about teaching, learning and school. This focus will be broken into four areas of inquiry that include: (a) What knowledge is of "greatest worth" for educators? (b) What is the purpose of a policy and who gets to make the decisions? (c) What is a "safe" school? (d) What role do unions and professional communities play in the lives of educators and children?

EDU 106 Contexts Of Schooling 3 Credits

Students in this field-based course will begin to examine aims, practices, and contemporary issues of schooling in their historical, sociological, philosophical, and futuristic contexts and from the perspectives of various multicultural constituencies— students, parents, local community, wider economic community, government, and the profession. In doing so, they will begin to develop professional skills of observation, reflection, analysis, and argument. This course must be taken concurrently with EDU 206. A cumulative GPA of 2.75 is required.

EDU 206 Developmental Education Psychology 3 Credits

This field-based course focuses on: a) the cognitive, personality, social, creative, and moral development of children and adolescents; b) influential theories, concepts, and research findings of educational psychology; and c) the translation of psychological theory into classroom practices. This course must be taken concurrently with EDU 106. A cumulative GPA of 2.75 is required.

EDU 300 Methods for Teaching Social Studies 3 Credits

This course focuses on pedagogy, content knowledge, skills, and critical abilities affiliated with the field of academic study known collectively as the social studies. Students in this class will explore the components of this field of study, including: American history, world history, U.S. government and politics, comparative political systems, sociology, psychology, law, and anthropology. This course is intended for both preservice social studies educators and for students interested in supplementing their content knowledge in history, culture, politics, and economics.

EDU 310 Introduction to STEM Education 3 Credits

STEM (Science, Technology, Engineering, and Math) in an educational context refers to teaching and learning that integrates science, technology, engineering, and mathematics. This course aims to provide experience with teaching approaches that promote a more holistic and interdisciplinary understanding of STEM, encouraging preservice teachers to explore real-world problems and develop critical thinking and problem-solving skills. Additionally, it aims to introduce pre-service teachers to some of the best practices of STEM teaching and provide opportunities to practice these approaches.

EDU 320 Introduction to Linguistics and Psycholinguistics 3 Credits

This course provides an introduction to the properties of human languages and to their systematic study in the field of linguistics and psycholinguistics. Topics include the nature of human language as distinct from other communication systems; sound patterns (phonology), word-formation (morphology), sentence structure (syntax), and meaning (semantics) in the world's languages; relations to cognition, communication, and social organization; dialect variation and language standardization; language learning by children and adults; and the nature and history of writing systems. Intended for any undergraduate and graduate interested in language or its use. It is assumed that students have had no prior course work or exposure to linguistics and will begin with the basic assumptions that are shared by those who study language from a variety of perspectives. Students analyze their own speech patterns, investigate different speech acts in different languages and develop a research project using a linguistic construct in order to apply it to the second language classroom. Students present this project in a poster format to the university community at the end of the semester. A cumulative GPA of 2.75 is required. NOTE: This course is cross-listed with FLE 320. Students cannot get credit for both FLE 320 and EDU 320.

EDU 358 Literacy and the Bilingual/Bicultural Child 3 Credits

Presents multidisciplinary and interdisciplinary perspectives on bilingual/bicultural children and their reading process. Strategies and materials for second language reading instruction are suggested and discussed.

EDU 420 Teaching a Second Language 3 Credits

This course focuses on interactive methods of teaching a new language as well as cross-cultural understanding. Students learn to plan using national and state standards for language instruction, organize activities, design and direct language learning tasks, and assess learning. Includes theoretical positions on communicative language learning and teaching, the use and evaluation of currently used materials, the design of new materials, and field experiences in the language to be taught. Students develop their professional portfolio, participate in an E-seminar, prepare a unit of study, and present lesson segments. Open to prospective world language teachers, ESL and bilingual teachers, as well as practicing teachers seeking certification. A cumulative GPA of 2.75 is required.

*NOTE: This course is cross-listed as FLE 420. Students cannot get credit for both FLE 420 and EDU 420.

Prerequisite(s): EDU 106 with a minimum grade of C+ or EDU 106 with a minimum grade of TR and EDU 206 with a minimum grade of C+ or EDU 206 with a minimum grade of TR.

EDU 451 Special Topics in Education 1-6 Credits

Student teachers, graduate interns, Rider faculty, cooperating teachers, and building-level administrators will engage in collaborative study of a topic through reading, writing, discussion, observation, and reflection on their work in classrooms. Work in these seminars will help student teachers synthesize knowledge from their professional courses and all participants extend their understanding of a particular topic pertaining to teaching. Teacher research methods will be employed as participants analyze their own teaching through perspectives of the seminar topic. Topics will vary each semester. This course is dual-listed for undergraduate and graduate credit. Enrollment is limited to students concurrently enrolled in student teaching and to cooperating teachers and principals working with them.

EDU 460 Educating and Evaluating the Bilingual Child 3 Credits

An examination of the historical, legal, and pedagogical aspects of the education of language minority students. Considers the design of school programs for minority students including legal mandates, testing, staffing, and funding. Emphasis is placed on the evaluation of bilingual students as they enter, develop and exit from special programs of study. A cumulative GPA of 2.75 is required.

EDU 465 Student Teaching and Seminar 12 Credits

A full-time program for seniors providing practical teaching experience in an accredited elementary or secondary school. Under the direct supervision of the cooperating teacher, student teachers are responsible for the planning of lessons and for teaching in their areas of specialization and for developing a high level of teaching competency. Supervisors from Rider observe the student teachers at work, confer with the cooperating teachers and student teachers, and evaluate the growth of the student teachers throughout the internship period. Special topics are considered in seminars held in conjunction with student teaching. These topics include school health and substance abuse, school law, teacher certification and placement, classroom management, mainstreaming, professionalism, and other topics deemed appropriate by the faculty and student teachers.

Prerequisite(s): 1. Satisfactory completion of junior-level professional courses; 2. Cumulative GPA of at least 3.0 prior to commencing the semester in which student teaching is to be completed; 3. All professional education courses, with the exception of those taken concurrently with student teaching, must be completed with a grade of "C +" or better; 4. A candidate for student teaching must be approved by the education division and the coordinator of student teaching. There is an additional fee for Student Teaching.

EDU 477 International Student Teaching 3 Credits

This course provides an immersion opportunity for student teachers to learn about the different cultures and the education system of other countries while living and teaching abroad. Students will explore topics such as global awareness, international curriculum, global educational issues, and pedagogy to support diverse student needs. Through seminar discussion, research, observation, reflection and practical experience, students will develop and share their understanding of diversity in an international setting to increase global awareness, inclusive practice, and professional skills to develop a culturally responsive classroom. A fee is required for this course.

Prerequisites: 3.25 GPA, letter of recommendation, successful completion of required PRAXIS exams, interview, essay, and successful completion of local student teaching. POI required.

ELD 128 Developing Mathematical Ideas for Elementary School Teachers 1 Credits

Prospective teachers will examine the mathematics content and curriculum that is taught in grades K-6, focusing upon the multi-layered aspects of the topics that successful elementary teachers need to understand profoundly in order to provide appropriate instruction. There will be a series of topics selected from those that have historically been especially difficult for teachers to thoroughly understand at the depth needed to teach effectively. Some of the topics may vary each semester.

ELD 307 Foundations of Early Literacy, K-3 3 Credits

This course introduces students to the development of literacy in young children, beginning in kindergarten and continuing through the early elementary grades. Students will learn what research has revealed about how young children develop the insights, skills, and conceptual knowledge that enable them to successfully learn to read and write. Students will learn to support young learners and prompt the development of foundational skills in phonemic awareness, phonics, fluency, vocabulary, comprehension, and writing. In addition, the course examines the relationship between oral language and literacy and the role motivation and social contexts play in literacy learning. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

ELD 308 Fostering Literacy and Language Development Across Disciplines 3 Credits

Explores evidenced based practices for literacy instruction in grade 3-6. Students study foundational reading and writing skills alongside theories and practices of motivation and engagement to support literacy and language development and learning. Students learn assessment measures for identifying individual literacy learning needs and methods for organizing instruction that includes access to diverse texts and resources to support all learners. Threaded throughout the course is the importance of understanding and supporting the diverse linguistic, cultural and learning experiences of students and communities and the awareness of how children comprehend and construct text across multiple modalities. Disciplinary literacy strategies children access for success across content areas are studied. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206; ELD 307.

ELD 350 Early Adolescence 1 Credits

This course will focus on common dilemmas faced by young people as they move from childhood into adolescence. It will examine age-related differences between children and adolescents and consider ways to create stimulating environments that fit this developmental transition. Representations of adolescence in the media and in research will be compared, including common stereotypes.

ELD 355 Teaching in the Inclusive Middle School Classroom 1 Credits

This course will highlight the legal and ethical responsibilities of general education teachers in the middle school classroom. The special education process will be discussed and methods to address special needs in the classroom will be shared. Strategies to differentiate instruction and work collaboratively with school community members will help pre-service teachers develop and implement effective instruction that meets diverse needs in the middle school inclusive classroom.

Prerequisite(s): EDU 106 and EDU 206 and a cumulative GPA of 2.75 is required.

ELD 360 Structure and Culture of Middle School Classroom 1 Credits

This course focuses on the teaching of those concepts critical to the understanding of the structure and culture of middle school education. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

ELD 374 Teaching Mathematics in Elementary Classrooms I 3 Credits

This course has been designed to help prepare preservice teachers to teach mathematics in elementary school classrooms, based on the New Jersey Student Learning Standards and the National Council for the Teaching of Mathematics principles of best practices of teaching and learning mathematics. It is a learner-centered methods course that focuses on theories and models for effectively understanding and teaching mathematical concepts and skills required at the elementary school level. It further explores the idea of Cognitively Guided Instruction (CGI), including best practices in teaching mathematics. The course will focus on developing a conceptual understanding of the characteristics and properties of geometric objects, the role of representations and visualization in exploring geometric concepts, fostering spatial reasoning, and emphasizing the concepts of measurement and data literacy. Conceptual understanding and instructional strategies will be developed through hands-on experiences, exploration of mathematical models, and honing problem-solving skills.

Prerequisite(s): MTH 150.

ELD 375 Methods of Teaching Mathematics in Elementary Classrooms 3 Credits

This course focuses on the teaching of mathematics that is developmentally appropriate for students from nursery to grade eight. In keeping with ACET, NAEYC, and NCTM Standards, emphasis is placed on planning for and implementing an integrated curriculum approach, discovery learning, hands-on experience, theme cycles, use of technology, and traditional and non-traditional assessment strategies. Field experiences will consist of classroom observations and teaching individuals and/or small groups of students. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206, MTH 102 or MTH 105 or MTH 150 or MTH 210.

ELD 376 Methods of Teaching Science in Elementary Classrooms 3 Credits

This course focuses on methods and materials of instruction in science that are developmentally appropriate for students in preschool through grade six and aligns with Next Generation Science Standards and NJSLs in Science. Emphasis is placed on an integrated approach to curriculum, with lesson and unit planning activities that incorporate hands-on experiences, inquiry and discovery learning, and traditional and non-traditional assessment strategies. Field experience will consist of observation and analysis of classroom instruction and teaching lessons to individual and/or small groups of children. A cumulative GPA of 2.75 is required.

Prerequisite(s): ELD 307 and ELD 375.

ELD 380 Methods of Teaching Mathematics in the Middle School 3 Credits

This course focuses on the teaching of mathematics that is developmentally appropriate for students in grades six through eight. In keeping with the National Council of Teachers of Mathematics (NCTM) Standards, emphasis is placed on planning for and implementing an inquiry-based approach, hands-on experience, use of technology, and traditional and non-traditional assessment. Field experiences will consist of observations and teaching to individuals, small groups and whole classes of students. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

ELD 385 Teaching Science in the Middle School 3 Credits

This course focuses on the teaching of sciences that is developmentally appropriate for students in grades six through eight. In keeping with the National Science Education Standards, emphasis is placed on planning for and implementing an inquiry-based approach, hands-on experiences, use of technology and traditional and non-traditional assessment strategies. Field experiences will consist of observations and teaching to individuals, small groups and whole classes of students. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

ELD 390 Teaching Social Studies in the Middle School 3 Credits

This course focuses on the teaching of social studies that is developmentally appropriate for students in grades six through eight. Its focus will explore understanding of United States history, geography and civics from the perspective of the middle school. The course emphasizes the ten themes of social studies as developed by the National Council for the Social Studies. In addition to the facts, concepts and generalizations encompassed by the ten themes, the course works with academic, social, thinking and citizenship skills. The required, intensive field experience in a middle school promotes direct application of the concepts, skills and dispositions addressed in the course. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

ELD 395 Literacy Learning in the Middle School 3 Credits

This course focuses on the teaching of literacy that is developmentally appropriate for students in grades six through eight. It explores processes in reading, writing, speaking, listening and viewing, relationships among the language arts and other subject areas, and the development of critical literacy and cognitive strategies. The intense field experience in a middle school promotes direct application of the concepts, skills and dispositions addressed in the course. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

ELD 490 Independent Study: Research and Creative Expression 1-6 Credits

Provides the student with an opportunity to study an area of personal interest. The outline for the study must be accepted by a sponsoring professor and approved by the student's department and academic dean. The number of semester hour's credit to be assigned is determined by the department.

SED 370 Teaching in the High School 3 Credits

This field-based course focuses on general pedagogy in grades nine through 12. Emphasis will be on generic teaching approaches, planning lessons and developing units of study, learning styles, issues and techniques of evaluation, and multiculturalism. Working in local high schools, students continue observing and begin teaching lessons in their subject area specialization. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

SED 400 Teaching English Language Arts in the Secondary School 3 Credits

Students preparing to teach English in middle schools and senior high schools explore strategies for the imaginative teaching of literature, poetry, drama, grammar, composing processes, vocabulary, and oral language use. Students research, develop, and critique thematic units, analyze curriculum, and study the selection, development, and use of a wide variety of teaching materials. Traditional and alternative methods of assessment are explored. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

SED 405 Teaching Social Studies in Secondary Schools 3 Credits

The theoretical foundations of teaching social studies in junior and senior high schools. Basic goals and aims of social studies instruction are studied, and specific methodological techniques are described and practiced. Demonstration lessons are prepared and presented. Considers typical problems with which teachers are confronted. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

SED 410 Teaching Science in Secondary Schools 3 Credits

Classroom interaction analysis systems are utilized in the study of the teaching-learning process. Students develop their own repertoire of teaching strategies. Emphasis on the investigation and interpretation of recent curriculum developments, and the use of the laboratory in science instruction. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

SED 415 Teaching Mathematics in Secondary Schools 3 Credits

The critical analysis of the aims of teaching mathematics in the secondary school; review of recent research in the content and teaching of mathematics by individuals and groups; demonstration lessons (reflective teaching) to illustrate techniques of teaching; the planning of lessons; selection and organization of materials and subject matter; and evaluation of lesson presentation. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

SED 431 Content Area Reading and Writing 3 Credits

Explores theoretical and methodological issues concerned with teaching reading and writing within content area classes. Students analyze junior high and high school textbooks and other reading materials, study methods of adjusting instruction to varying reading and writing needs of students, prepare directed reading activities in their specific content areas, and use informal diagnostic reading tools. Included is the preparation of content area writing assignments and the evaluation of student writing as well as the teaching of study skills? Emphasis throughout is on the integration of reading and writing into secondary school subject classes. A cumulative GPA of 2.75 is required.

Prerequisite(s): EDU 106 and EDU 206.

SED 490 Independent Research and Study 1-6 Credits

The outline for study must be accepted by the professor and approved by the department. The semester hours credit to be assigned is determined by the department.

SPE 201 Foundations in Special Education and Inclusive Practice 3 Credits

This course emphasizes the foundations of special education and introduces students to inclusive practice. Philosophical, historical, and legal foundations of special education and characteristics of students with disabilities will be examined. Students will learn the components of an Individualized Education Program (IEP), how to adapt learning environments and curricular materials, as well as how to select and implement modifications for students with disabilities. Inclusive educational practices including communication, coteaching, and collaborative partnerships will be addressed through case studies and fieldwork. Students will be required to complete a minimum of 15 field hours in addition to regularly scheduled class hours.

Prerequisite(s): A cumulative GPA of 2.75 is required.

SPE 202 Teaching Students with Autism Spectrum Disorder and Low-Incidence Disabilities 3 Credits

This course is designed to examine the characteristics of individuals with Autism Spectrum Disorder (ASD) and strategies to support their academic, communication, and social/behavioral growth, including the use of assistive technology and positive behavioral supports. Methods and strategies for ASD and other low incidence disabilities will be explored. Through active participation in class and field sites, students will become aware of the various social issues related to family, education, transition, community resources and work experiences of individuals with these disabilities. Students will be required to complete a minimum of 30 weekday field hours in addition to regularly scheduled class hours.

Prerequisite(s): A cumulative GPA of 2.75 and SPE 201.

SPE 210 Global Encounters 3 Credits

This course is an international learning experience focused on exploring educational opportunities in the United States and abroad. Students will study the history, policy and practice of special education in the United States and compare it with another country and culture first hand, through lectures, school visits and reflection. Current strategies and challenges of educators and families supporting individuals with disabilities will be examined. Through this cross-cultural experience, students will broaden perspectives and develop cultural awareness, knowledge, and understanding of diversity. This course is open to all students and disciplines. There are no prerequisites.

SPE 300 Inclusive Practices for General Education Teachers 3 Credits

This course is designed to introduce preservice general education teachers students to special education and the inclusive classroom. Students will explore current issues and practices in special education. Assignments and activities will enable students to develop the knowledge and skills to design and manage the instructional environment for diverse learners in inclusive and classroom setting. Attitudes and behaviors that influence children with special needs will be addressed. Students will be required to complete a minimum of 15 field hours in addition to regularly scheduled class hours. Prerequisite(s): EDU 106 and EDU 206. A cumulative gpa of 2.75 is required.

SPE 303 Assessment and Instruction for Students with Disabilities 3 Credits

This course will emphasize the relationship between assessment and instructional design and implementation. Coursework includes the evaluation, selection, development, and adaptation of standardized, normreferenced, and functional assessments, such as a Functional Behavioral Assessment (FBA) and Ecological Assessment. Strategies to support literacy instruction for students with disabilities will be examined. Transition planning, program development, and agencies available to support students with disabilities and their families will be explored. This course requires a field experience in order to help students apply theory to practice.

Prerequisite(s): A cumulative GPA of 2.75 and SPE 201.

SPE 304 Assessment and Instruction in the Inclusive Classroom 3 Credits

This course will emphasize assessment, planning, and instructional design to maximize the learning of all students, including those with exceptional learning needs, in the inclusive classroom. Students will have the opportunity to explore a variety of instructional strategies to meet the needs of diverse learners. Organization of learning environments and the collaborative process, including co-teaching models, will be utilized to design a long-term unit plan. This course requires a field experience in order to help students apply theory to practice.

Prerequisite(s): A cumulative GPA of 2.75 and SPE 201 with a minimum grade of "C+".

SPE 305 Assessment and Instruction for Students with Autism Spectrum Disorders 3 Credits

Through this course, teacher candidates will learn both theories related to teaching students with Autism Spectrum Disorder (ASD) as well as best practices in the classroom related to academic instruction, as well as emotional, behavioral, and communicative interventions. This course also includes a field component, in which teacher candidates are expected to complete 10 hours of observation in a classroom with students with ASD. The course begins by examining the characteristics of the disability, causes, early warning signs, diagnostic procedures, and early intervention practices. Specific practices related to instruction and intervention as well as how to best structure a classroom for students will be examined. Teacher candidates will receive instruction in a variety of strategies and practices, even those that do not yet qualify as EBP, as well as their theoretical underpinnings. Strategies for communicating effectively and efficiently with parents, as well as the most current and/or special issues in the field will also be discussed. Issues related to post-secondary transition will also be examined.

Prerequisites: A cumulative GPA of 2.75 and SPE 201.

TEC 200 Google® Educator Level One Training 3 Credits

This course will provide the skills and knowledge for pre-service teachers in undergraduate education to successfully take the Google® Educator Level One Exam.

TEC 201 Internet Ethics 1 Credits

This course focuses on using the Internet to explore and reflect on current ethical issues involving technology. These include individual privacy, legal issues such as fair use and copyright laws, and social issues such as bullying and social networking. Students will explore these topics using a variety of search engines and will reflect on the information found in terms of its impact on society as well as its appropriate uses in personal life, education and business. Pass/fail.

TEC 202 Smartboard 1 Credits

This course is designed to provide an opportunity for students to become familiar with the features and applications of Smartboard, an interactive whiteboard that can be used in classrooms and professional presentations. Students will gain experience using the touch screen and in integrating the features of the program into learning and professional materials. Pass/fail.

TEC 203 Desktop Publishing and Web Page Design 1 Credits

This course provides students with the ability to use desktop publishing software to create materials suitable for use in classrooms, professional settings, and personal use, and with the ability to design web pages. The course is appropriate for anyone who will be involved in designing classroom and student publications and for those who will use web pages in their teaching or personal lives. Discussion will be held on how to use desktop publishing and web page design in elementary and secondary school settings. A project involving application of various desktop publishing and web page design techniques will be completed and demonstrated to the class. Pass/fail.

TEC 204 Electronic Spreadsheets and Classroom Management Software 1 Credits

Basic electronic spreadsheet concepts and applications are taught using a major spreadsheet program. Topics include writing basic formulas, copying formulas, playing "What If," customizing a worksheet, and printing a spreadsheet. Discussions will be held on how to integrate spreadsheets into elementary and secondary classes and activities. Pass/fail.

TEC 206 Teaching and Presenting with Technology 1 Credits

This course covers designing, planning, and using technology enhanced instruction and presentations. Group assignments will enable students to explore uses of technology to enhance instruction and presentations. Collaboration will be encouraged when discussing the efficient and effective use of technology. Three collaborative group reports will be submitted dealing with discussion questions and chapter topics. Appropriate web sites and programs will be visited. Students will design a final original application that could be used to create motivation and visual learning in a specific classroom or other professional setting related to their major areas of study. Emphasis will be given to technology integration strategies. A final oral presentation of individual projects will be given.

TEC 207 Social Media for Education 3 Credits

Social Media for Education will introduce students to the structure and culture of social media and how social networking applies to the educational environment. This three-credit course will foster a deep understanding of how social media in education can benefit students, teachers, administrators, staff, and stakeholders.

TEC 307 Concepts Instuct Media & Tech 3 Credits

Designed to provide the student with familiarity and appreciation of the role of educational technology in the workplace as it applies to students, teachers, administrators, and trainers. The student will explore the Internet, various educational multimedia, distance learning, virtual reality environments, learning theories, and integration models. Appropriate developmental/reflective strategies will be incorporated with instruction. Although multimedia microcomputers will be utilized throughout the course, prior microcomputer knowledge and experience is not a critical element. Multimedia expertise will be developed as the course progresses.

TEC 308 Digital Tools for Teaching 3 Credits

Designed to enable the student to develop instructional presentations utilizing the advantages of multimedia technology. Each student will be required to create a multimedia portfolio that contains information presentations, cumulative records, presenter notes, work samples, photo library, video animation, and audio narration. Cooperative learning strategies will be utilized throughout the course. Developmental/reflective strategies will include self-reflection, peer feedback, and interaction with the instructor in class and via E-mail. Expertise will be developed as the course progresses.

TEC 309 Instruct Media/Technology Management 3 Credits

Designed to develop technology management skills that can be used for individual classrooms, training centers, subject area specializations, grade levels, school laboratories, curriculum integration, administrative functions, system networks, community services, communication systems and connecting linkages between educational/work environments and home. Various management strategies will be explored and each student will have an opportunity to design, via a multimedia microcomputer, an instructional technology system of their choice along with a management plan. Cooperative learning strategies will be utilized throughout the course. Developmental/reflective strategies will include self-reflection, peer feedback, and interaction with the instructor in class and via E-mail.

Prerequisite(s): At least six semester hours of technology courses or modules.

TEC 404 Assistive and Augmentative Technology for Autism Spectrum Disorders and Other Disabilities 3 Credits

This course will emphasize the use of assistive technology, augmentative communication modalities, visual supports, and related instructional methods and strategies that maximize the learning of individuals with autism spectrum disorders and other exceptional learning needs. Students will learn how to effectively customize materials and adapt learning environments using technology, with a specific focus on individuals with ASD. Students will become familiar with the use of high-tech, low-tech, and no-tech solutions that support the individualized needs of learners.

Prerequisite: SPE 201 with a minimum grade of C+ or SPE 300 with a minimum grade of C+.

TEC 407 New Literacies for New Learning 3 Credits

As we consider the rapid expansion of information and text it is timely to take a critical view of what literacy means and how it is influencing children's literacy development and the work of educators. Many argue that the rapidly evolving use of technology is potentially shifting the ways in which we construct and comprehend information, or is it? In this hybrid/online course, we aim to explore these sometimes competing conceptions of text as we consider what these new literacies mean for children's literacy development as well our own work as educators.

TEC 490 Independent Research and Study 1-6 Credits

Provides the student with an opportunity to study an area of personal interest. The outline for the study must be accepted by a sponsoring professor and approved by the student's department and academic dean. The number of semester hours credit to be assigned is determined by the department.