

# Education

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The Education Department at St. Francis College has a successful history of offering a teacher preparation pathway leading to initial certification in Childhood Education (grades 1-6), Adolescent Education (grades 7-12), and Physical Education (grades P-12).

## Department Mission

The mission of the Education Department is to prepare teachers to serve and lead in a multicultural community. Through reflective, constructivist teaching, students' capacities to become caring, competent, and qualified educators are developed. The department strives to provide a curriculum that is academically and pedagogically challenging, in an environment that nurtures understanding, mutual respect, empathy, and an emphasis on affirming and encouraging the best in others. The program of study reflects a deep commitment to the Franciscan ideals of service to the community, acceptance of individual differences, and an ethic of care. The aim is to graduate student-centered practitioners who create opportunities for all children and youth to realize their full potential.

## Student Learning Outcomes

In preparing its teacher candidates for certification, the Teacher Education Program draws on the InTASC Model Core Teaching Standards to shape its Student Learning Outcomes (SLOs). These standards outline the common principles and foundations of instructional practice that cross all subject areas and grade levels, and are believed to be fundamental criteria in advancing the educational outcomes for all learners. These SLOs include candidate knowledge, skills, and dispositions related to the unique needs of learners, content knowledge, instructional practice, and professionalism.

|   |   |
|---|---|
| The Learner and Learning (INTASC 1-3)                         | SLO 1: Teacher candidates demonstrate the ability to recognize the range of individual differences in how students learn and customize instruction to accommodate such diversity.   |
|   | SLO 2: Teacher candidates demonstrate the ability to develop culturally responsive curricula and instruction that draw on linguistic and cultural diversity, as well as family background and community values as assets that can be used to promote learning.                        |
|   | SLO 3: Candidates demonstrate the ability to maintain an inclusive learning environment that promotes positive social interactions, acceptance, collaboration, mutual respect, multicultural awareness, an appreciation of diversity, and a concern for others.                       |
| Content Knowledge (INTASC 4, 5)                               | SLO 4: Teacher candidate demonstrate a proficient understanding of the central concepts, principles, tools of inquiry, and structures of the disciplinary areas that they teach and create meaningful learning experiences to ensure learner mastery of the content.                  |
|   | SLO 5: Teacher candidate demonstrate the ability to make content knowledge relevant to learners by connecting it to local, state, national, and global issues.  |
|   | SLO 6: Teacher candidates demonstrate the ability to align lessons with NYS curricular standards for college readiness and successful performance on state-mandated tests.  |
| Instructional Practice (INTASC 6-8)                           | SLO 7: Teacher candidates demonstrate the ability to use a variety of instructional strategies to engage, motivate, promote critical thinking, self-directed learning, creativity, and collaborative problem solving in order to extend learners' understanding of the content areas. |
|   | SLO 8: Teacher candidates demonstrate the ability to integrate new technologies across content areas to deliver instruction in meaningful ways and add value to the overall learning experience.  |
|   | SLO 9: Teacher candidates demonstrate an understanding of the uses, strengths, and limitations of various forms of assessment practices to document learner progress and adjust instruction as needed.  |
| Reflection, Professionalism & Ethical Practice (INTASC 9, 10) | SLO 10: Teacher candidates support the academic, social, and emotional development of all students through dispositions such as acceptance, empathy, caring, fairness, student advocacy, and the belief that all students can learn.  |
|   | SLO 11: Teacher candidates demonstrate the ability to be self-reflective and use this knowledge to seek critical feedback, enhance their repertoire of teaching skills, and pursue professional development opportunities in the best interest of learners.                           |
|   | SLO 12: Teacher candidates demonstrate the ability to foster positive interactions and collaborate with professional colleagues and school personnel in support of student learning, development, and well-being.   |



## Admission & Program Continuation Requirements

The quality of teacher candidates is monitored at transitional points during their tenure in the Teacher Preparation Program. These transitional points are also referred to as “gates” at which certain criteria must be met for admission, program continuation, approval for the clinical experience, and to merit a recommendation for licensure.

### Gate I: Prequalifications

- GPA of 3.00 or higher
- 24 credits
- Grade of B or higher in ED1201 Foundations of Education
- Grade of B or higher in ED 2020 Educational Psychology

### Gate II: Program Admission

- Application
- Recommendations (2)
- Declaration of Major
- Disposition Review

### Gate III: Program Continuation

- GPA of 3.00 or higher
- Grade of B or higher in education coursework
- Grade of B or higher in concentration
- No grade lower than C- in any SFC course
- Pass Disposition Review

### Gate IV: Admission to Student Teaching

- 100 hours of field experience
- Student teaching application
- Readiness for placement interview
- Disposition self-assessment
- Fingerprint clearance
- Mandated Workshops:
  - School Violence Prevention & Intervention (SAVE),
  - Identification & Reporting of Child Abuse,
  - Training in Harassment, Bullying, Cyberbullying, and Discrimination in Schools (DASA)

### Gate V: Student Teaching

- 300 hours of supervised clinical experience

Applications for admission to the Education Program may be submitted at any time. Completed applications will be reviewed prior to the start of the fall and spring semesters. All applications are submitted online, a link to which can be provided by visiting the

Education Office (Room 5311). Incomplete applications will not be considered.

Students are notified in writing about the outcome of their application. In instances where admission is not offered, suggestions for strengthening the application for a future term may be requested.

Inability to meet the program continuation requirements may result in a probationary period lasting one semester. During this period, a student must meet the conditions of a corrective action plan for program continuation.

## PROGRAM OF STUDY REQUIREMENTS

In addition to completing the General Core and prescribed pedagogical coursework, Childhood Education majors must complete a concentration in Biology, English, Mathematics, or Social Studies.

Adolescent Education majors must complete a concentration in Biology, Chemistry, English, Mathematics, or Social Studies.

In addition to the General Core and prescribed pedagogical coursework, Physical Education majors must complete coursework in Physical Education.

### Student Teaching

All teacher candidates complete 300 hours of unpaid, supervised student teaching in an approved partner school specified by the Education Department. Partner schools are those with whom SFC, as the Educator Preparation Provider (EPP), has a collaborative, mutually beneficial relationship and that exemplify the following criteria:

- A desire for meaningful engagement with teacher educators to promote continuous improvement and excellence in educator preparation
- A commitment to equity, inclusion, justice, and respect for all peoples and cultures in its defining values
- A commitment to expanding both students' perspectives and understanding of the world they live in as well as ethical and empathic decision-making
- Diversity initiatives
- The availability of technology to enhance teaching and learning
- Advocates of health, fitness, and integrated learning
- A supportive professional culture

As part of the student teaching semester, teacher candidates must also enroll in a weekly three-hour seminar, the focus of which is on topics related to the SLOs listed earlier.

# Program Requirements

## Major in Adolescent Education—Concentration in Biology

| Courses   | Credits | Prerequisite(s)                             | Co-Requisite(s) |
|---|---------|---|-----------------|
| General Education Program ( <a href="#">see page 15</a> ).....              | 53      |   |                 |
| First Year College.....   |         |   |                 |
| ➔ <b>QR - Take MAT 1107 Algebra &amp; Trig for Sci Majors (4 crs)</b> ..... |         | MAT 1105 or placement exam                  |                 |
| Bodies of Knowledge.....  |         |   |                 |
| ➔ <b>NPW - Take CHE 1201 General Chemistry I (5 crs)</b> .....              |         |   | MAT-1105        |
| ➔ <b>NPW - Take CHE 1202 General Chemistry II (5 crs)</b> .....             |         | CHE 1201                                    | MAT-1107        |
| ED 1201 Foundations of Education.....                                       | 3       |   |                 |
| ED 2020 Educational Psychology.....   | 3       |   |                 |
| ED 2040 Psychology of the Exceptional Child.....                            | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 2100 Assessment and Evaluation.....                                      | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 3000 Teaching with Technology.....                                       | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 4350 Literacy Instruction for English Language Learners.....             | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 4990 Supervised Student Teaching.....                                    | 6       | Gates I, II, III, IV; cumulative GPA of 3.0 |                 |
| AED 2200 Methods of Instruction in Secondary Education.....                 | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| AED 3320 Literacy in the Content Area (Grades 7-12).....                    | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| AED 3600 Methods of Instruction in Secondary Biology.....                   | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| Select <b>TWO</b> foreign language courses in sequence.....                 | 6       |   |                 |
| BIO 1107 Anatomy and Physiology I.....                                      | 4       |   |                 |
| BIO 1108 Anatomy and Physiology II.....                                     | 4       | BIO 1107                                    |                 |
| BIO 1201 General Biology I.....   | 5       |   |                 |
| BIO 1202 General Biology II.....  | 5       | BIO 1201                                    |                 |
| BIO 2204 Ecology.....   | 4       | BIO 1202                                    |                 |
| BIO 2250 Introduction to Cell Biology.....                                  | 4       | BIO 1202.....                               | CHE 2101        |
| BIO 3303 Genetics.....  | 4       | BIO 1202                                    |                 |
| Choose <b>TWO</b> of the following:.....                                    | 8       |   |                 |
| BIO 2202 Comparative Anatomy.....   |         | BIO 1202                                    |                 |
| BIO 2203 Invertebrate Zoology.....  |         | BIO1202                                     |                 |
| BIO 3300 Microbiology.....  |         | BIO 1141 or BIO 1202                        |                 |
| BIO 3302 Botany.....  |         | BIO 1202                                    |                 |
| BIO 4000 Marine Biology.....  |         | BIO 2250 and CHE 2102                       |                 |
| MAT 2301 Statistics.....  | 3       | MAT 1104 or higher                          |                 |
| Total credits required.....   | 133     |   |                 |

<sup>1</sup>The successful completion of ED 4990 satisfies the College's Comprehensive Examination/Thesis requirement.



## Major in Adolescent Education—Concentration in Chemistry

| Courses  | Credits    | Prerequisite(s)                         | Co-Requisite(s) |
|--|------------|---|-----------------|
| General Education Program ( <a href="#">see page 15</a> ).....   | 52         |   |                 |
| First Year College.....  |            |   |                 |
| Bodies of Knowledge .....  |            |   |                 |
| ➔ NPW - Take BIO 1201 General Biology I (5 crs).....             |            |   |                 |
| ➔ NPW - Take BIO 1202 General Biology II (5 crs).....            |            | BIO 1201                                |                 |
| ED 1201 Foundations of Education.....                            | 3          |   |                 |
| ED 2020 Educational Psychology .....                             | 3          |   |                 |
| ED 2040 Psychology of the Exceptional Child.....                 | 3          | Gates I, II, III; cumulative GPA of 3.0 |                 |
| ED 2100 Assessment and Evaluation.....                           | 3          | Gates I, II, III; cumulative GPA of 3.0 |                 |
| ED 3000 Teaching with Technology .....                           | 3          | Gates I, II, III; cumulative GPA of 3.0 |                 |
| ED 4350 Literacy Instruction for English Language Learners ..... | 3          | Gates I, II, III; cumulative GPA of 3.0 |                 |
| ED 4990 Supervised Student Teaching <sup>1</sup> .....           | 6          | Gates I, II, III; cumulative GPA of 3.0 |                 |
| AED 2200 Methods of Instruction in Secondary Education .....     | 3          | Gates I, II, III; cumulative GPA of 3.0 |                 |
| AED 3320 Literacy in the Content Area (Grades 7-12) .....        | 3          | Gates I, II, III; cumulative GPA of 3.0 |                 |
| AED 3650 Methods of Teaching Secondary Chemistry .....           | 3          | Gates I, II, III; cumulative GPA of 3.0 |                 |
| Select <b>TWO</b> foreign language courses in sequence.....      | 6          |   |                 |
| CHE 1201 General Chemistry I.....                                | 5          | MAT 1105 or exam                        |                 |
| CHE 1202 General Chemistry II.....                               | 5          | { MAT-1107                              |                 |
|  |            | { CHE 1201                              |                 |
| CHE 2050 Analytical Chemistry .....                              | 4          | CHE 1202                                |                 |
| CHE 2101 Organic Chemistry I.....                                | 5          | CHE 1202                                |                 |
| CHE 2102 Organic Chemistry II.....                               | 5          | CHE 2101                                |                 |
| CHE 3001 Biochemistry.....                                       | 4          | CHE 2102                                |                 |
| CHE 4001 Physical Chemistry .....                                | 4          | CHE 2102, MAT 2301 and PHY 2002         |                 |
| PHY 2001 General Physics I.....                                  | 4          | MAT 2202                                |                 |
| PHY 2002 General Physics II.....                                 | 4          | PHY 2001                                |                 |
| <b>Total credits required</b> .....                              | <b>131</b> |   |                 |

<sup>1</sup>The successful completion of ED 4990 satisfies the College's Comprehensive Examination/Thesis requirement.

## Major in Adolescent Education—Concentration in English

| Courses   | Credits    | Prerequisite(s)                             | Co-Requisite(s) |
|---|------------|---|-----------------|
| General Education Program ( <a href="#">see page 15</a> ).....            | 48         |   |                 |
| First Year College .....  |            |   |                 |
| ➔ <b>FH - Take HS 1001 Health Issues</b> .....                            |            |   |                 |
| Bodies of Knowledge.....  |            |   |                 |
| ED 1201 Foundations of Education.....                                     | 3          |   |                 |
| ED 2020 Educational Psychology .....                                      | 3          |   |                 |
| ED 2040 Psychology of the Exceptional Child .....                         | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 2100 Assessment and Evaluation.....                                    | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 3000 Teaching with Technology .....                                    | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 4350 Literacy Instruction for English Language Learners .....          | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 4990 Supervised Student Teaching <sup>1</sup> .....                    | 6          | Gates I, II, III, IV; cumulative GPA of 3.0 |                 |
| AED 2200 Methods of Instruction in Secondary Education.....               | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| AED 3320 Literacy in the Content Area (Grades 7-12) .....                 | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| AED 3340 Methods of Instruction in Secondary English.....                 | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| Select <b>TWO</b> foreign language courses in sequence.....               | 6          |   |                 |
| Select <b>ONE</b> Mathematics course (except MAT 1101) <sup>2</sup> ..... | 3          |   |                 |
| Select <b>FOUR</b> ENG courses 2000-2999.....                             | 12         | WRI 1100                                    |                 |
| Select <b>FIVE</b> ENG courses 3000 or higher.....                        | 15         | Any ENG course 2000 or higher               |                 |
| Any ENG seminar course 4000-4999.....                                     | 3          | Five ENG courses 2100 or higher             |                 |
| Liberal arts electives <sup>2</sup> .....                                 | 9          |   |                 |
| <b>Total credits required</b> .....                                       | <b>129</b> |   |                 |

<sup>1</sup>The successful completion of ED 4990 satisfies the College's Comprehensive Examination/Thesis requirement.

<sup>2</sup>Students pursuing a Bachelor of Arts degree must complete 2/3 of their degree credits (i.e. minimum 90 credits) from courses in the Liberal Arts category. For specific academic subjects, [see page 15](#).



## Major in Adolescent Education—Concentration in Mathematics

| Courses  | Credits | Prerequisite(s)                             | Co-Requisite(s) |
|--|---------|---|-----------------|
| General Education Program ( <a href="#">see page 15</a> ).....   | 49      |   |                 |
| First Year College .....   |         |   |                 |
| ➔ <b>QR - Take MAT 1105 College Algebra</b> .....                |         | MAT 1101 or placement exam                  |                 |
| Bodies of Knowledge.....   |         |   |                 |
| ➔ <b>NPW - Take CHE 1101 Chemistry and Life (4 crs)</b> .....    |         | MAT 1101 or placement exam                  |                 |
| ➔ <b>NPW - Take PHY 1001 Physics and the Modern World</b> .....  |         |   |                 |
| ED 1201 Foundations of Education.....                            | 3       |   |                 |
| ED 2020 Educational Psychology.....                              | 3       |   |                 |
| ED 2040 Psychology of the Exceptional Child .....                | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 2100 Assessment and Evaluation.....                           | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 3000 Teaching with Technology .....                           | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 4350 Literacy Instruction for English Language Learners ..... | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 4990 Supervised Student Teaching.....                         | 6       | Gates I, II, III, IV; cumulative GPA of 3.0 |                 |
| AED 2200 Methods of Instruction in Secondary Education.....      | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| AED 3320 Literacy in the Content Area (Grades 7-12) .....        | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| AED 3400 Methods of Instruction in Secondary Mathematics.....    | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| Select <b>TWO</b> foreign language courses in sequence.....      | 6       |   |                 |
| MAT 1107 Algebra and Trigonometry for Science Majors .....       | 4       | MAT 1105 or placement exam                  |                 |
| MAT 2202 Calculus I.....   | 4       | MAT 1107 or placement exam                  |                 |
| MAT 2203 Calculus II.....  | 4       | MAT 2202                                    |                 |
| MAT 2301 Statistics .....  | 3       | MAT 1104 or higher or placement exam        |                 |
| MAT 2309 College Geometry .....                                  | 3       | MAT 2202                                    |                 |
| MAT 3304 Calculus III.....                                       | 4       | MAT 2203                                    |                 |
| MAT 3312 Linear Algebra .....                                    | 4       | MAT 2203                                    |                 |
| MAT 3401 Differential Equations I.....                           | 3       | MAT-2203                                    |                 |
| MAT 3406 Theory of Numbers.....                                  | 3       | MAT 2202                                    |                 |
| MAT 4403 Advanced Calculus I.....                                | 4       | MAT-3304                                    |                 |
| MAT 4995 Independent Study in Mathematics .....                  | 3       |   |                 |
| Total credits required.....                                      | 127     |   |                 |

*The successful completion of ED 4990 satisfies the College's Comprehensive Examination/ Thesis requirement.*

## Major in Adolescent Education—Concentration in Social Studies

| Courses   | Credits    | Prerequisite(s)                                   | Co-Requisite(s) |
|---|------------|---|-----------------|
| General Education Program ( <a href="#">see page 15</a> ).....      | 48         |   |                 |
| First Year College .....  |            |   |                 |
| ➔ <b>FH - Take HS 1001 Health Issues</b> .....                      |            |   |                 |
| Bodies of Knowledge.....  |            |   |                 |
| ➔ <b>SEH - Take ECO 1201 Principles of Macroeconomics</b> .....     |            | MAT 1101 or placement exam (pre- or co-requisite) |                 |
| ➔ <b>SEH - Take ECO 2202 Principles of Microeconomics</b> .....     |            | ECO 1201  |                 |
| ED 1201 Foundations of Education.....                               | 3          |   |                 |
| ED 2020 Educational Psychology.....                                 | 3          |   |                 |
| ED 2040 Psychology of the Exceptional Child.....                    | 3          | Gates I, II, III; cumulative GPA of 3.0           |                 |
| ED 2100 Assessment and Evaluation.....                              | 3          | Gates I, II, III; cumulative GPA of 3.0           |                 |
| ED 3000 Teaching with Technology .....                              | 3          | Gates I, II, III; cumulative GPA of 3.0           |                 |
| ED 4350 Literacy Instruction for English Language Learners .....    | 3          | Gates I, II, III; cumulative GPA of 3.0           |                 |
| ED 4990 Supervised Student Teaching <sup>1</sup> .....              | 6          | Gates I, II, III, IV; cumulative GPA of 3.0       |                 |
| AED 2200 Methods of Instruction in Secondary Education.....         | 3          | Gates I, II, III; cumulative GPA of 3.0           |                 |
| AED 3320 Literacy in the Content Area (Grades 7-12).....            | 3          | Gates I, II, III; cumulative GPA of 3.0           |                 |
| AED 3500 Methods of Instruction in Secondary Social Studies.....    | 3          | Gates I, II, III; cumulative GPA of 3.0           |                 |
| Select <b>TWO</b> foreign language courses in sequence.....         | 6          |   |                 |
| Select <b>ONE</b> Mathematics course (except MAT 1101).....         | 3          |   |                 |
| HIS 1101 Survey of Western Civilization (to 1500).....              | 3          |   |                 |
| HIS 3301 Medieval History .....                                     | 3          | HIS 1201  |                 |
| HIS 3312 Renaissance and Reformation.....                           | 3          | HIS 1201  |                 |
| HIS 3401 History of the U.S.: The Age of Discovery–1789 .....       | 3          | HIS 1201  |                 |
| HIS 3402 History of the United States: 1789–1896.....               | 3          | HIS 1201  |                 |
| Select <b>ONE</b> of the following courses.....                     | 3          |   |                 |
| HIS 3307 Race and Ethnicity in American Life.....                   |            | HIS 1201  |                 |
| HIS 3311 African-American History .....                             |            | HIS 1201  |                 |
| Select <b>THREE</b> of the following courses .....                  | 9          |   |                 |
| HIS 2303 The World in the 20th Century.....                         |            | HIS 1201 or 15 college credits                    |                 |
| PSC 2320-2323 Current Problems.....                                 |            | HIS 1201 or 15 college credits                    |                 |
| HIS 3310 Latin-American History.....                                |            | HIS 1201  |                 |
| HIS 3501 The Atlantic World .....                                   |            | HIS 1201  |                 |
| PSC 2317 Government and Politics of Africa.....                     |            | PSC 1202  |                 |
| PSC 2318 Government and Politics of Asia.....                       |            | PSC 1202  |                 |
| SOC 2040 Social Anthropology.....                                   |            | SOC 1000  |                 |
| Select <b>ONE</b> of the following courses.....                     | 3          |   |                 |
| HIS 2201 New York on Location: Walking Tours in the City.....       |            | HIS 1201  |                 |
| HIS 3480 New York City in the American Urban Experience .....       |            | HIS 1201  |                 |
| HIS 3490 Famous Trail: Landmarks Legal Cases in American History .. |            | HIS 1201  |                 |
| PSC 1204 American National Government .....                         | 3          |   |                 |
| Liberal arts electives <sup>2</sup> .....                           | 6          |   |                 |
| <b>Total credits required</b> .....                                 | <b>129</b> |   |                 |

<sup>1</sup>The successful completion of ED 4990 satisfies the College's Comprehensive Examination/Thesis requirement.

<sup>2</sup>Students pursuing a Bachelor of Arts degree must complete 2/3 of their degree credits (i.e. minimum 90 credits) from courses in the Liberal Arts category. For specific academic subjects, [see page 15](#).

## Major in Childhood Education—Concentration in Biology

| Courses  | Credits    | Prerequisite(s)  | Co-Requisite(s)  |  |
|--|------------|--|--|--|
| General Education Program(see page 15).....  | 50         |  |  |  |
| First Year College .....   |            |  |  |  |
| ➔ <b>QR - Take MAT 1107 Algebra and Trig for Sci Maj (4 crs)</b> .....                       |            | MAT 1105   |  |  |
| Bodies of Knowledge.....   |            |  |  |  |
| ➔ <b>NPW - Take CHE 1101 Chemistry and Life (4 crs)</b> .....                                |            | MAT 1101 or placement exam   |  |  |
| ➔ <b>NPW - Take PHY 1001 Physics and the Modern World</b> .....                              |            |  |  |  |
| ED 1201 Foundations of Education: History and Philosophy.....                                | 3          | Cumulative index 3.0 or higher   |  |  |
| ED 2020 Educational Psychology.....  | 3          | Cumulative index 3.0 or higher   |  |  |
| ED 2040 Psychology of the Exceptional Child.....   | 3          | Cumulative index 3.0 or higher   |  |  |
| ED 2100 Assessment and Evaluation.....   | 3          | { ED 1201 with a grade of B or higher<br>ED 2020 with a grade of B or higher   |  |  |
| ED 3000 Teaching with Technology.....  | 3          |  |  |  |
| ED 4350 Literacy Skills/Second Language Development in ELL.....                              | 3          | { ED 2100<br>CED 2200<br>CED 3000<br>CED 3200 CED 3300 and CED 3700<br>Chairperson's approval; must have attempted ALST, EAS,<br>CST and three workshops |  |  |
| ED 4990 Supervised Student Teaching.....   | 6          |  |  |  |
| CED 2200 Methods of Effective Teaching Methods in the<br>Inclusive Elementary Classroom..... | 3          |  | { ED 1201 with a grade of 3.0 or higher<br>ED 2020 with a grade of 3.0 or higher<br>Chairperson's approval   |  |
| CED 3000 Science Methods for K-5.....  | 3          |  | { ED 1201<br>ED 2202<br>6 credits in the appropriate MAT courses<br>6 credits in the appropriate SCI courses |  |
| CED 3200 Math Method Childhood Education.....  | 3          | { CED 2200<br>ED 2100<br>Cumulative index 3.0 or higher  |  |  |
| CED 3300 Elementary Writing Instruction .....  | 3          | { CED 2200<br>ED 2100  |  |  |
| CED 3700 Social Studies and Geography in Childhood Education.....                            | 3          | { CED 2200<br>ED 2100  |  |  |
| CED 4300 Beginning Reading Instruction.....  | 3          | { CED 2200<br>ED 2100<br>ED 3000   |  |  |
| Select <b>TWO</b> foreign language courses in sequence.....                                  | 6          |  |  |  |
| BIO 1107 Anatomy and Physiology I.....   | 4          |  |  |  |
| BIO 1108 Anatomy and Physiology II.....  | 4          | BIO 1140   |  |  |
| BIO 1201 General Biology I.....  | 5          |  | CHE 1201   |  |
| BIO 1202 General Biology II.....   | 5          | BIO 1201.....  | CHE 1202   |  |
| BIO 2204 Ecology.....  | 4          | BIO 1202   |  |  |
| Choose <b>TWO</b> of the following.....  | 8          |  |  |  |
| BIO 2202 Comparative Anatomy.....  |            | BIO 1202   |  |  |
| BIO 2203 Invertebrate Zoology.....   |            | BIO 1202   |  |  |
| BIO 2250 Introduction to Cell Biology.....   |            | BIO 1202.....  | CHE 2101   |  |
| BIO 3302 Botany.....   |            | BIO 1202   |  |  |
| BIO 3303 Genetics .....  |            | BIO 1202   |  |  |
| BIO 4000 Marine Biology.....   |            | BIO 1202   |  |  |
| MAT 2301 Statistics.....   | 3          | MAT 1104 or Higher   |  |  |
| <b>Total credits required</b> .....  | <b>131</b> |  |  |  |

*The successful completion of ED 4990 satisfies the College's Comprehensive Examination/Thesis requirement.*



## Major in Childhood Education—Concentration in English

| Courses  | Credits    | Prerequisite(s)                             | Co-Requisite(s) |
|--|------------|---|-----------------|
| General Education Program ( <a href="#">see page 15</a> ).....                     | 48         |   |                 |
| First Year College .....   |            |   |                 |
| ➔ <b>QR - Take MAT 1104 Discrete Mathematics</b> .....                             |            | MAT 1101 or higher                          |                 |
| ➔ <b>FH - Take HS 1001 Health Issues</b> .....                                     |            |   |                 |
| Bodies of Knowledge.....   |            |   |                 |
| ED 1201 Foundations of Education.....  | 3          |   |                 |
| ED 2020 Educational Psychology.....  | 3          |   |                 |
| ED 2040 Psychology of the Exceptional Child.....                                   | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 2100 Assessment and Evaluation.....   | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 3000 Teaching with Technology .....   | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 4350 Literacy Instruction for English Language Learners .....                   | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 4990 Supervised Student Teaching.....   | 6          | Gates I, II, III, IV; cumulative GPA of 3.0 |                 |
| CED 2200 Methods of Effective Teaching in the Inclusive Elementary Classroom ..... | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| CED 3000 Methods of Instruction in Science(Grades 1-6) .....                       | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| CED 3200 Methods of Instruction in Math(Grades 1-6) .....                          | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| CED 3300 Methods of Instruction in Writing (Grades 1-6) .....                      | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| CED 3700 Methods of Instruction in Social Studies and Geography (Grades 1-6) ..... | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| CED 4300 Methods of Instruction in Beginning Reading(Grades 1-6) .....             | 3          | Gates I, II, III; cumulative GPA of 3.0     |                 |
| Select <b>TWO</b> foreign language courses in sequence.....                        | 6          |   |                 |
| Select <b>FIVE</b> ENG course 2000-2999 .....                                      | 15         | WRI 1100                                    |                 |
| Select <b>FOUR</b> ENG courses 3000 or higher .....                                | 12         | Any ENG course 2000 or higher               |                 |
| Select <b>ONE</b> ENG course 4000 Level.....                                       | 3          |   |                 |
| MAT 1103 Foundations of Mathematics.....   | 3          | MAT 1101 or higher                          |                 |
| <b>Total credits required</b> .....  | <b>129</b> |   |                 |

*The successful completion of ED 4990 satisfies the College's Comprehensive Examination/ Thesis requirement.*



## Major in Childhood Education—Concentration in Mathematics

| Courses   | Credits    | Prerequisite(s)                               | Co-Requisite(s) |
|---|------------|---|-----------------|
| General Education Program ( <a href="#">see page 15</a> ).....                        | 48         |   |                 |
| First Year College .....  |            |   |                 |
| ➔ <b>QR - Take MAT 1104 Discrete Mathematics</b> .....                                |            | MAT 1101 or higher                            |                 |
| Bodies of Knowledge.....  |            |   |                 |
| ED 1201 Foundations of Education.....   | 3          |   |                 |
| ED 2020 Educational Psychology.....   | 3          |   |                 |
| ED 2040 Psychology of the Exceptional Child .....                                     | 3          | Gates I, II, III; cumulative GPA of 3.0       |                 |
| ED 2100 Assessment and Evaluation.....  | 3          | Gates I, II, III; cumulative GPA of 3.0       |                 |
| ED 3000 Teaching with Technology .....  | 3          | Gates I, II, III                              |                 |
| ED 4350 Literacy Instruction for English Language Learners.....                       | 3          | Gates I, II, III; cumulative GPA of 3.0       |                 |
| ED 4990 Supervised Student Teaching.....  | 6          | Gates I, II, III, IV; cumulative GPA of 3.0   |                 |
| CED 2200 Methods of Effective Instruction in the Inclusive Elementary Classroom ..... | 3          | Gates I, II, III; cumulative GPA of 3.0       |                 |
| CED 3000 Methods of Instruction in Science (Grades 1-6) .....                         | 3          | Gates I, II, III; cumulative GPA of 3.0       |                 |
| CED 3200 Methods of Instruction in Math (Grades 1-6) .....                            | 3          | Gates I, II, III; cumulative GPA of 3.0       |                 |
| CED 3300 Methods of Instruction in Writing(Grades 1-6) .....                          | 3          | Gates I, II, III; cumulative GPA of 3.0       |                 |
| CED 3700 Methods of Instruction in Social Studies & Geography (Grades 1-6).....       | 3          | Gates I, II, III; cumulative GPA of 3.0       |                 |
| CED 4300 Methods of Instruction in Beginning Reading(Grades 1-6) .....                | 3          | Gates I, II, III; cumulative GPA of 3.0       |                 |
| Select <b>TWO</b> foreign language courses in sequence.....                           | 6          |   |                 |
| MAT 1103 Foundations of Mathematics .....   | 3          | MAT 1101 or placement exam                    |                 |
| MAT 1105 College Algebra .....  | 3          | MAT 1101 or placement exam                    |                 |
| MAT 1107 Algebra and Trigonometry for Science Majors .....                            | 4          | MAT 1105 or placement exam                    |                 |
| MAT 2202 Calculus I.....  | 4          | MAT 1107 or placement exam                    |                 |
| MAT 2203 Calculus II.....   | 4          | MAT 2202                                      |                 |
| MAT 2301 Statistics .....   | 3          | MAT 1104 or higher or placement exam          |                 |
| MAT 2309 College Geometry .....   | 3          | MAT 2202                                      |                 |
| MAT 3305 Calculus Workshop using Technology .....                                     | 3          | MAT 2202 and MAT 2203                         |                 |
| MAT 3312 Linear Algebra.....  | 4          | MAT 2203                                      |                 |
| Select <b>ONE</b> of the following courses.....                                       | 3          |   |                 |
| MAT 3311 Introduction to Set Theory .....   |            | MAT 2203                                      |                 |
| MAT 3406 Theory of Numbers.....   |            | MAT 2202                                      |                 |
| MAT 4995 Independent Study in Mathematics .....                                       |            | Senior standing                               |                 |
|   |            | Major in Mathematics or Mathematics Education |                 |
| <b>Total credits required</b> .....   | <b>130</b> |   |                 |

*The successful completion of ED 4990 satisfies the College's Comprehensive Examination/Thesis requirement.*

## Major in Childhood Education—Concentration in Social Studies

| Courses  | Credits | Prerequisite(s)                                   | Co-Requisite(s) |
|--|---------|---|-----------------|
| General Education Program ( <a href="#">see page 15</a> ).....                     | 48      |   |                 |
| First Year College .....   |         |   |                 |
| ➔ <b>QR - Take MAT 1104 Discrete Mathematics</b> .....                             |         | MAT 1101 or higher                                |                 |
| Bodies of Knowledge.....   |         |   |                 |
| ➔ <b>SEH - Take ECO 1201 Principles of Macroeconomics</b> .....                    |         | MAT 1101 or placement exam (pre- or co-requisite) |                 |
| ➔ <b>SEH - Take ECO 2202 Principles of Microeconomics</b> .....                    |         |   |                 |
| ➔ <b>WHG -Take HIS 1201 History of the United States 1896 to Present</b> .....     |         | ECO 1201  |                 |
| ED 1201 Foundations of Education.....  | 3       |   |                 |
| ED 2020 Educational Psychology.....  | 3       |   |                 |
| ED 2040 Psychology of the Exceptional Child.....                                   | 3       | Gates I, II, III; cumulative GPA of 3.0           |                 |
| ED 2100 Assessment and Evaluation.....   | 3       | Gates I, II, III; cumulative GPA of 3.0           |                 |
| ED 3000 Teaching with Technology .....   | 3       | Gates I, II, III; cumulative GPA of 3.0           |                 |
| ED 4350 Literacy Instruction for English Language Learners .....                   | 3       | Gates I, II, III; cumulative GPA of 3.0           |                 |
| ED 4990 Supervised Student Teaching.....   | 6       | Gates I, II, III, IV; cumulative GPA of 3.0       |                 |
| CED 2200 Methods of Effective Teaching in the Inclusive Elementary Classroom ..... | 3       | Gates I, II, III; cumulative GPA of 3.0           |                 |
| CED 3300 Methods of Instruction in Writing(Grades 1-6) .....                       | 3       | Gates I, II, III; cumulative GPA of 3.0           |                 |
| CED 3200 Methods of Instruction in Math(Grades 1-6) .....                          | 3       | Gates I, II, III; cumulative GPA of 3.0           |                 |
| CED 3000 Methods of Instruction in Science(Grades 1-6) .....                       | 3       | Gates I, II, III; cumulative GPA of 3.0           |                 |
| CED 3700 Methods of Instruction in Social Studies & Geography(Grades 1-6) .....    | 3       | Gates I, II, III; cumulative GPA of 3.0           |                 |
| CED 4300 Methods of Instruction in Beginning Reading(Grades 1-6) .....             | 3       | Gates I, II, III; cumulative GPA of 3.0           |                 |
| Select <b>TWO</b> foreign language courses in sequence.....                        | 6       |   |                 |
| HIS 1102 Survey of Western Civilization (since 1500).....                          | 3       |   |                 |
| HIS 3202 Ancient History .....   | 3       | HIS 1201  |                 |
| HIS 3301 Medieval History .....  | 3       | HIS 1201  |                 |
| HIS 3312 Renaissance and Reformation.....  | 3       | HIS 1201  |                 |
| HIS 3401 History of the U.S.: The Age of Discovery–1789 .....                      | 3       | HIS 1201  |                 |
| HIS 3402 History of the United States: 1789–1896.....                              | 3       | HIS 1201  |                 |
| Select <b>ONE</b> of the following courses.....                                    | 3       |   |                 |
| HIS 3307 Race and Ethnicity in American Life .....                                 |         | HIS 1201  |                 |
| HIS 3311 African-American History .....  |         | HIS 1201  |                 |
| Select <b>TWO</b> of the following courses .....                                   | 6       |   |                 |
| HIS 2303/PSC 2312 The World in the 20 <sup>th</sup> Century.....                   |         | HIS 1201 or 15 college credits                    |                 |
| HIS 3310 Latin-American History.....   |         | HIS 1201  |                 |
| HIS 3501 The Atlantic World .....  |         | HIS 1201  |                 |
| PSC 2320-2323 Current Problems.....  |         | HIS 1201 or 15 college credits                    |                 |
| PSC 2317 Government and Politics of Africa.....                                    |         | PSC 1202  |                 |
| PSC 2318 Government and Politics of Asia.....                                      |         | PSC 1202  |                 |
| SOC 2040 Social Anthropology.....  |         | SOC 1000  |                 |
| Select <b>ONE</b> of the following courses.....                                    | 3       |   |                 |
| HIS 2201 New York On Location: Walking Tours in the City.....                      |         |   |                 |
| HIS 3480 New York City in the American Urban Experience .....                      |         |   |                 |
| HIS 3490 Famous Trails: Landmark Legal Cases in Amer. History.....                 |         |   |                 |
| MAT 1103 Foundations of Mathematics .....  | 3       | MAT 1101 or placement exam                        |                 |
| Total credits required.....  | 129     |   |                 |

*The successful completion of ED 4990 satisfies the College's Comprehensive Examination/ Thesis requirement*



## Major in Physical Education—Initial Certificate (Grades K-12)

| Courses  | Credits | Prerequisite(s)                             | Co-Requisite(s) |
|--|---------|---|-----------------|
| General Education Program ( <a href="#">see page 15</a> ).....                                       | 50      |   |                 |
| First Year College .....   |         |   |                 |
| ➔ <b>QR - Take MAT 1104 Discrete Mathematics</b> .....   |         | MAT 1101 or higher                          |                 |
| ➔ <b>FH - Take HS 1001 Health Issues</b> .....   |         |   |                 |
| Bodies of Knowledge.....   |         |   |                 |
| ➔ <b>NPW - BIO 1107 Anatomy and Physiology I (4 crs)</b> .....                                       |         | BIO 1107                                    |                 |
| ➔ <b>NPW - BIO 1108 Anatomy and Physiology II (4 crs)</b> .....                                      |         |   |                 |
| ED 1201 Foundations of Education.....  | 3       |   |                 |
| ED 2020 Educational Psychology.....  | 3       |   |                 |
| Select <b>ONE</b> of the following courses.....  | 3       |   |                 |
| AED 2200 Methods of Instruction in Secondary Education .....   |         | Gates I, II, III; cumulative GPA of 3.0     |                 |
| CED 2200 Methods of Effective Instruction in the Inclusive<br>Elementary Classroom (Grades 1-6)..... |         | Gates I, II, III; cumulative GPA of 3.0     |                 |
| ED 3000- Teaching w/ Technology .....  | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| Select <b>THREE</b> of the following courses .....   | 6       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 1101 Soccer/Volleyball Skills Activities.....   |         | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 1102 Basketball, Baseball, Softball Skills Activities.....  |         | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 1106 Floor Hockey/Team Handball Skills Activity .....   |         | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 1107 Track and Field Skills Activity .....  |         | Gates I, II, III; cumulative GPA of 3.0     |                 |
| Select <b>ONE</b> of the following courses.....  | 2       |   |                 |
| FIT 1121 Beginning Swimming .....  |         |   |                 |
| FIT 1123 Fitness Swimming.....   |         | Instructor approval                         |                 |
| PE 2202 History and Principles of Physical Education.....  | 2       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 2208 Kinesiology.....   | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 3100 Evaluation of Physical Education.....  | 2       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 3200 Biomechanics.....  | 2       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 3304 Organization and Administration of Physical Education.....                                   | 2       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 3305 Physiology of Exercise .....   | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 3308 Motor Learning .....   | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 3322 Introduction to Legal Issues .....   | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 4300 Methods of Instruction in PE, PreK-12.....   | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 4302 Physical Education for Students with Special Needs .....                                     | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 4616 Psychology of Sport.....   | 3       | Gates I, II, III; cumulative GPA of 3.0     |                 |
| PE 4990 Supervised Student Teaching in Physical Education <sup>1</sup> .....                         | 6       | Gates I, II, III, IV; cumulative GPA of 3.0 |                 |
| PSY 1103 Child and Adolescent Psychology.....  | 3       |   |                 |
| Select <b>TWO</b> foreign language courses in sequence.....  | 6       |   |                 |
| HS 1206 Safety and First Aid .....   | 3       |   |                 |
| HS 1207 Nutrition.....   | 3       |   |                 |
| Liberal arts electives <sup>2</sup> .....  | 3       |   |                 |
| Total credits required.....  | 123     |   |                 |

<sup>1</sup>The successful completion of ED 4990 or PE 4990 satisfies the College's Comprehensive Examination/Thesis requirement.

<sup>2</sup>Students pursuing a Bachelor of Science degree must complete 1/2 of their degree credits (i.e. minimum 60 credits) from courses in the Liberal Arts category. For specific academic subjects, [see page 15](#).

## Minor in Personal Training

This minor prepares students for careers in corporate fitness, health-club management, strength coaching at the NCAA division 1 level, private training, and allied health professions. Students will learn fundamentals of weight loss, program design, nutrition, toning, strength, power, endurance and flexibility.5 Students will be prepared for personal training certification in organizations that include the clinically aligned America College

of Sports Medicine, the sports related National Strength and Conditioning Association, as well as the fitness club affiliated National Academy of Sports Medicine. Personal trainers are more important now than at any point in world history. Technology, sedentary lifestyles, and inexpensive high fat foods can all contribute to heart disease-the leading cause of death in the USA. Personal trainers are often the first line of defense in combating the obesity epidemic.

| Courses   | Credits   | Prerequisite(s) | Co-Requisite(s) |
|---|-----------|-----------------|-----------------|
| FIT 1142 Weight Training .....                          | 2         |                 |                 |
| FIT 1152 Exercise Training Techniques and Methods ..... | 3         |                 |                 |
| Choose ANY FIT course .....                             | 2         |                 |                 |
| HS 1206 Safety and First Aid .....                      | 3         |                 |                 |
| PE 1500 Personal Training .....                         | 3         |                 |                 |
| PE 3306 Training Theory.....                            | 3         | PE 1500         |                 |
| <b>Total credits required.....</b>                      | <b>16</b> |                 |                 |

