COMBINED BACHELOR'S / MASTER'S PROGRAMS

COMBINED BACHELOR OF ARTS/MASTER OF SCIENCE FOR TEACHERS ADOLESCENCE EDUCATION

Program Leader: Dr. Mark Beatham, 518-564-5142
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Sibley Hall, Room 418C

The Program
The combined bachelor of arts in selected subject areas and master of science for teachers programs prepare persons for adolescence education teaching grades 7-12. Each program leads to a bachelor’s degree, a master's degree, and initial and professional certification in one of the following areas: Biology, Chemistry, Earth Science, English, French, Mathematics, Physics, Social Studies, or Spanish. In addition to completing general education and undergraduate courses in the subject area, students in these programs take an undergraduate course in education during their sophomore year that introduces them to foundations of education and prepares them for classroom experience. In the eighth semester of full-time study (or equivalent) students can take up to four graduate education courses.

With careful planning, each program can be completed in five years and one summer of full-time study.

Students enrolled in a combined program are classified as undergraduates (and are charged undergraduate tuition) until the semester during which they enroll for the 13th credit of graduate courses attempted. (A graduate course in which a student receives any grade, including I, W, WC, or E, is counted as attempted.) Upon verification by the Academic Progress Committee that the student has met all academic progress requirements, and the completion of the Application for Continuation of Graduate Study form, he/she is advanced to graduate status (and graduate tuition applies for that semester and the duration of the program, packaged, if applicable, with graduate forms of financial aid). In these combined programs the bachelor’s and master’s degrees are conferred simultaneously upon completion of all program requirements. If at any point a student enrolled in a combined program is found to have failed to meet any academic progress requirements, he/she may be counseled to repeat selected coursework or other requirements, or he/she may be transferred into a corresponding subject area bachelor’s program.

For the shared vision and program themes of the professional education faculty at SUNY Plattsburgh, see Teacher Education Unit in the Academic Departments, Centers, and Major Programs section of this catalog.

Admission Requirements
Applicants for the combined B.A./M.S.T. Program must meet general college requirements and admission procedures for undergraduate study. (See Admissions section of the catalog.) Students entering the program as freshmen (with fewer than 28 credits) must have a high school average of at least 85 percent and combined SAT scores of at least 1575 (1050). Students not meeting these admission requirements may enter the corresponding subject area undergraduate degree programs and apply to transfer into the B.A./M.S.T. Program upon meeting minimum cumulative GPA requirements (2.75) for at least one semester, or they may apply for admission to the M.S.T. Program after completion of an appropriate undergraduate degree.

Students transferring into the program with 28 or more credits (from another program at SUNY Plattsburgh or from another institution) must have at least a 2.75 cumulative GPA. Failing this, they may transfer into the corresponding subject area major and petition to transfer into the B.A./M.S.T. Program once they have shown satisfactory progress at SUNY Plattsburgh.

Monitoring of Student Progress
Upon acceptance into a combined degree program, the student is assigned an advisor from the subject area and an advisor from the Teacher Education Unit. Beginning with EDU 280 Introduction to Adolescence Education, normally in the fourth semester, the student will maintain a portfolio, which will be reviewed each semester by the academic advisors and is an important assessment tool in the evaluation of the student’s progress. If a student’s cumulative GPA falls below 2.75 for undergraduate work or 3.0 for graduate work, or his/her portfolio is deficient, his/her record will be reviewed by the Academic Progress Committee and he/she may be subject to academic remediation or dismissal from the combined B.A./M.S.T. Program. Dismissed students may petition for readmission to the B.A./M.S.T. Program.

Students are expected to behave in ways that are consistent with the commitment to professional and ethical behavior, academic excellence and diligence, and dedication to the teaching profession. Advisors and the Academic Progress Committee review any deviations from ethical standards, and, after due process, may recommend action or dismissal from the program. Students who exhibit deficiencies in ethical or professional behavior and/or teaching performance may be subject to dismissal from the program, regardless of their GPA.

Promotion to Graduate Status
When a student registers for his/her first graduate course, his/her academic record and portfolio will be reviewed for promotion to graduate status. A student’s promotion to graduate status also depends upon maintaining a cumulative GPA of at least 2.75 in undergraduate courses and 3.0 in graduate courses and the completion of the Application for Continuation of Graduate Study form obtained from the Office of Graduate Advising, Sibley 302A.
Requirements for Student Teaching

Students must apply for student teaching placement in February of the year before the intended student teaching semester. Additionally, they must attend one of the mandatory application/orientation meetings, complete an application form, and pay an application fee at the Student Accounts Office.

Prior to student teaching a student must have completed:
1. A minimum of 22 graduate hours with a minimum cumulative (graduate) GPA of 3.0.
2. All required graduate professional education courses through the semester preceding the student teaching experience with no grade below a B.

See additional information about student teaching and teacher certification in the Teacher Education Unit section of this catalog.

Capstone Project

Students must successfully complete a portfolio, begun in EDU 280 Introduction to Adolescence Education, taken in the fourth or fifth semester of full-time (or equivalent) course work. Artifacts from the undergraduate content major as well as from graduate education courses that demonstrate a blending of content area and pedagogy will be added to the portfolio throughout the remaining program of study. The portfolio is used by academic advisors from both the content area and the Teacher Education Unit and by the Academic Progress Committee to monitor student progress. (See above.) Certification by the Academic Progress Committee that the portfolio has been satisfactorily completed is required for graduation from the combined B.A./M.S.T. Programs.

For more information, contact the program leader, Dr. Mark Beatham, and/or the chairperson of the specific content area:
- Biology, Dr. Neil Buckley
- Chemistry, Dr. Edward Miller
- English, Dr. Thomas Morrissey
- French, Dr. Jean Ouédraogo
- Geology, Dr. Robert Fuller
- History, Dr. Wendy Gordon
- Mathematics, Dr. David Kenoyer
- Physics, Dr. Thomas Wolosz
- Spanish, Dr. Jean Ouédraogo

BIOLOGY/ADOLESCENCE EDUCATION

Bachelor of Arts/Master of Science for Teachers
Curriculum 0216/0845 Requirements

MAJOR REQUIREMENTS

CREDITS

A. Content Area Requirements (39-40 cr.)
1. BIO 101 General Biology I (4 cr.)
2. BIO 102 General Biology II (4 cr.)
3. BIO 203 Microbiology (4 cr.) or
   BIO 205 Plant and Fungal Biology (3 cr.) or
   BIO 221 Zoology (3 cr.)
4. BIO 208 Evolution (3 cr.)
5. BIO 304 Ecology (4 cr.)
6. BIO 305 Genetics (4 cr.)
7. BIO 380 Communicating Biology (AWR) (3 cr.)
8. BIO 401 Cell Biology (4 cr.)
9. BIO 411 Plant Physiology (4 cr.) or
   BIO 421 Animal Physiology (4 cr.)
10. Biology Electives (6 cr.)

B. Cognate Requirements (46-47 cr.)
1. CHE 111 Fundamental Principles of Chemistry I (4 cr.)
2. CHE 112 Fundamental Principles of Chemistry II (4 cr.)
3. CHE 240 Fundamental Organic Chemistry (5 cr.)
4. CHE 371 General Biochemistry (4 cr.) or
   CHE 401 Biochemistry I (3 cr.)
5. MAT 161 Introductory Statistics (3 cr.)
6. MAT 221 Calculus for the Life, Management, and Social Sciences I (4 cr.) or
   MAT 224 Calculus I (4 cr.)
7. MAT 222 Calculus for the Life, Management, and Social Sciences II (4 cr.) or
   MAT 225 Calculus II (4 cr.)
8. PHY 111 General Physics I (4 cr.)
9. ENG 255 Literature and Science (3 cr.)
10. SCI 430 Science Teaching Methods (7-12) (3 cr.)
11. EDU 280 Introduction to Adolescence Education (6 cr.)
12. HED 310 Foundations of Personal Health (3 cr.)

C. Education Requirements (42 cr.)
1. EDU 5120 Adolescent Development for Education Professionals (2 cr.)
2. EDU 5130 Assessment in Education (2 cr.)
3. EDU 5150 Curriculum Design and Pedagogical Methods: Grades 7-12 (3 cr.)
4. EDU 5160 School Culture, Settings, and Systems in the 21st Century (2 cr.)
5. EDU 5170 Educational Technology I (2 cr.)
6. EDU 5180 Practitioner Research in Education I: Planning Research (2 cr.)
7. EDR 501 Introduction to Literacy Instruction (3 cr.)
8. EDU 5250 Curriculum Design and Pedagogical Methods II: Grades 7-12 (4 cr.)
9. EDU 5270 Educational Technology II (2 cr.)
COMBINED BACHELOR'S / MASTER'S PROGRAMS

10. EDS 543 Inclusive Schools and Communities (3 cr.)
11. EDU 5280 Practitioner Research in Education II: Conducting Research (2 cr.)
12. EDR 514 Exploring Multicultural Competencies and Literacy Instruction (3 cr.)
13. EDT 594 Student Teaching (12 cr.)

D. Capstone Project (0 cr.)

TOTAL CREDITS minimum 150
(including General Education Requirements)

Capstone Project
Successfully complete a portfolio begun in EDU 280 Introduction to Adolescence Education. Artifacts from the undergraduate content major as well as from the graduate education courses that demonstrate a blending of content area and pedagogy will be added to the portfolio throughout the remainder of the program. The completed portfolio will be reviewed and evaluated by both content area and pedagogy faculty.

ADDITIONAL DEGREE REQUIREMENTS
1. A minimum grade of C in each course used to meet content area and cognate requirements.
2. Cumulative GPA of at least 2.75 in undergraduate courses.
3. Cumulative GPA of at least 3.0 in graduate courses.
4. No grade lower than a B in required graduate education courses.

CHEMISTRY/ADORLESCENCE EDUCATION
Bachelor of Arts/Master of Science for Teachers Curriculum 0217/0846 Requirements

CREDITS

MAJOR REQUIREMENTS 111

A. Content Area Requirements (41 cr.)
1. CHE 111 Fundamental Principles of Chemistry I (4 cr.)
2. CHE 112 Fundamental Principles of Chemistry II (4 cr.)
3. Select two courses from one group:
   Group 1
   CHE 241 Organic Chemistry I (4 cr.)
   CHE 242 Organic Chemistry II (4 cr.)
   Group 2
   CHE 240 Fundamentals of Organic Chemistry (5 cr.)
   CHE 401 Biochemistry (3 cr.)
4. CHE 321 Quantitative Chemistry (4 cr.)
5. CHE 391 Written and Oral Reports (AWR) (3 cr.)
6. CHE 430 Inorganic Chemistry I (3 cr.)
7. CHE 455 Physical Chemistry I (4 cr.)
8. CHE 456 Physical Chemistry II (4 cr.)
9. CHE 491 Chemistry Seminar I (1 cr.)
10. CHE 495 Undergraduate Research (3 cr.)
11. CHE 400-level Chemistry Electives (3 cr.)
   (Students may not use CHE 496 or CHE 498 credits to satisfy this requirement.)

B. Cognate Requirements (28 cr.)
1. PHY 111 General Physics I (4 cr.)
2. PHY 112 General Physics II (4 cr.)
3. MAT 224 Calculus I (4 cr.)
4. MAT 225 Calculus II (4 cr.)
5. SCI 430 Science Teaching Methods (7-12) (3 cr.)
6. HED 310 Foundations of Personal Health (3 cr.)
7. EDU 280 Introduction to Adolescence Education (3 cr.)

C. Education Requirements (42 cr.)
1. EDU 5120 Adolescent Development for Education Professionals (2 cr.)
2. EDU 5130 Assessment in Education (2 cr.)
3. EDU 5150 Curriculum Design and Pedagogical Methods: Grades 7-12 (3 cr.)
4. EDU 5160 School Culture, Settings, and Systems in the 21st Century (2 cr.)
5. EDU 5170 Educational Technology I (2 cr.)
6. EDU 5180 Practitioner Research in Education I: Planning Research (2 cr.)
7. EDR 501 Intro. to Literacy Instruction (3 cr.)
8. EDU 5250 Curriculum Design and Pedagogical Methods II: Grades 7-12 (4 cr.)
9. EDU 5270 Educational Technology II (2 cr.)
10. EDS 543 Inclusive Schools and Communities (3 cr.)
11. EDU 5280 Practitioner Research in Education II: Conducting Research (2 cr.)
12. EDR 514 Exploring Multicultural Competencies and Literacy Instruction (3 cr.)
13. EDT 594 Student Teaching (12 cr.)

D. Capstone Project (0 cr.)

TOTAL CREDITS minimum 150
(including General Education Requirements)

Capstone Project
Successfully complete a portfolio begun in EDU 280 Introduction to Adolescence Education. Artifacts from the undergraduate content major as well as from the graduate education courses that demonstrate a blending of content area and pedagogy will be added to the portfolio throughout the remainder of the program. The completed portfolio will be reviewed and evaluated by both content area and pedagogy faculty.

ADDITIONAL DEGREE REQUIREMENTS
1. A minimum grade of C in each course used to meet content area and cognate requirements.
2. Cumulative GPA of at least 2.75 in undergraduate courses.
3. Cumulative GPA of at least 3.0 in graduate courses.
4. No grade lower than a B in required graduate education courses.
ENGLISH/adolescence education
Bachelor of Arts/Master of Science for Teachers
Curriculum 0221/0858 Requirements

MAJOR REQUIREMENTS 100

A. Content Area Requirements (48 cr.)
1. ENG 163Intro. to Film and Literature (3 cr.)
2. ENG 195Fundamentals of Literary Study I: The Literary Object (3 cr.)
3. ENG 196Fundamentals of Literary Study II: Trends and Movements (3 cr.)
4. ENG 297Fundamentals of English Language Arts (3 cr.)
5. ENG 305Composition Skills for Teachers (3 cr.)
6. ENG 375Literature for the Classroom Teacher (3 cr.)
7. ENG 364Shakespeare (3 cr.)
8. Choose one from the following (3 cr.):
   ENG 250History of Western World Literature I (3 cr.)
   ENG 295Modern Mythmaking (3 cr.)
9. Writing Requirements (6 cr.)
   ENG 301Expository Writing (AWR) (3 cr.)
   Choose one course from the following (3 cr.):
   ENG 201Creative Writing (3 cr.)
   ENG 208Introduction to Writing Poetry (3 cr.)
   ENG 209Introduction to Writing Fiction (3 cr.)
   ENG 306Topics in Writing (3 cr.)
   ENG 390Training for Writing Tutors (3 cr.)
10. Literature Requirements (18 cr.)
    ENG 461Young Adult Fiction (3 cr.)
    One upper-level American literature course (3 cr.)
    One upper-level British literature course (3 cr.)
    Two additional upper-level literature courses (any) (6 cr.)
    Multiculturalism: Choose one course from the following (3 cr.):
    ENG 170Multicultural Am. Literature (3 cr.)
    ENG 270Intro. to African Am. Lit. (3 cr.)
    ENG 271Latina/o Literature in the U.S. (3 cr.)

B. Cognate Requirements (10 cr.)
1. Choose one from the following:
   LIB 102Introduction to Information Management (1 cr.)
   LIB 105Introduction to Information and Technology Literacy (1 cr.)
2. EDU 280Introduction to Adolescence Education (6 cr.)
3. HED 310Foundations of Personal Health (3 cr.)

C. Education Requirements (42 cr.)
1. EDU 5120Adolescent Development for Education Professionals (2 cr.)
2. EDU 5130Assessment in Education (2 cr.)
3. EDU 5150Curriculum Design and Pedagogical Methods: Grades 7-12 (3 cr.)
4. EDU 5160School Culture, Settings, and Systems in the 21st Century (2 cr.)
5. EDU 5170Educational Technology I (2 cr.)
6. EDU 5180Practitioner Research in Education I: Planning Research (2 cr.)
7. EDR 501Introduction to Literacy Instruction (3 cr.)
8. EDU 5250Curriculum Design and Pedagogical Methods II: Grades 7-12 (4 cr.)
9. EDU 5270Educational Technology II (2 cr.)
10. EDS 543Inclusive Schools and Communities (3 cr.)
11. EDU 5280Practitioner Research in Education II: Conducting Research (2 cr.)
12. EDR 514Exploring Multicultural Competencies and Literacy Instruction (3 cr.)
13. EDT 594Student Teaching (12 cr.)

D. Capstone Project (0 cr.)

TOTAL CREDITS minimum 150
(including General Education Requirements)

FRENCH/adolescence education
Bachelor of Arts/Master of Science for Teachers
Curriculum 0226/8014 Requirements

MAJOR REQUIREMENTS 90

A. Content Area Requirements (30 cr.)
1. Language and Culture Courses (6 cr.)
   FRE 213Intermediate French (3 cr.)
   FRE 214Intermediate French (3 cr.)
2. Advanced Language and Culture Courses (6 cr.)
   FRE 316Conversation avancée (3 cr.)
   FRE 322Lecture et interprétation (3 cr.)
3. Civilization and Culture Courses (9 cr.)
   Complete 9 credits from among the courses listed below. These courses may be repeated for credit with different content.
   FRE 333La France (3 cr.)
COMBINED BACHELOR’S / MASTER’S PROGRAMS

FRE 334  La Francophone (3 cr.)
FRE 335  Le Québec (3 cr.)
4. FRE 319  Composition et grammaire avancées (AWR) (3 cr.)

5. Advanced Literature and Culture Courses (6 cr.)

B. Cognate Requirements (18 cr.)
1. FRE 496  French Foreign Language Methodology (3 cr.)
2. FRE 497  French Practicum (3 cr.)
3. LIN 221  Intro. to General Linguistics (3 cr.)
4. HED 310  Foundations of Personal Health (3 cr.)
5. EDU 280  Introduction to Adolescence Education (6 cr.)

C. Education Requirements (42 cr.)
1. EDU 5120  Adolescent Development for Education Professionals (2 cr.)
2. EDU 5130  Assessment in Education (2 cr.)
3. EDU 5150  Curriculum Design and Pedagogical Methods: Grades 7-12 (3 cr.)
4. EDU 5160  School Culture, Settings, and Systems in the 21st Century (2 cr.)
5. EDU 5170  Educational Technology I (2 cr.)
6. EDU 5180  Practitioner Research in Education I: Planning Research (2 cr.)
7. EDR 501  Intro. to Literacy Instruction (3 cr.)
8. EDU 5250  Curriculum Design and Pedagogical Methods II: Grades 7-12 (4 cr.)
9. EDU 5270  Educational Technology II (2 cr.)
10. EDS 543  Inclusive Schools and Communities (3 cr.)
11. EDU 5280  Practitioner Research in Education II: Conducting Research (2 cr.)
12. EDR 514  Exploring Multicultural Competencies and Literacy Instruction (3 cr.)
13. EDT 594  Student Teaching (12 cr.)

D. Capstone Project (0 cr.)

TOTAL CREDITS minimum 150 (including General Education Requirements)

GEOLOGY/ADOLESCENCE EDUCATION*
Bachelor of Arts/Master of Science for Teachers Curriculum 0220/0849 Requirements

MAJOR REQUIREMENTS CREDITS 111-113

A. Content Area Requirements (36-38 cr.)
1. AST 101  Introduction to Astronomy (4 cr.)
2. GEL 101  Physical Geology (4 cr.)
3. GEL 102  Evolution of the Earth (4 cr.)
4. GEL 291  Oceanography (3 cr.) or GEL 343  Hydrology (4 cr.)
5. GEL 306  Atmospheric Processes (3 cr.)
6. GEL 310  Earth Materials I (4 cr.)
7. GEL 323  Earth Materials II (4 cr.)
8. GEL 324  Sedimentology (4 cr.)
9. GEL 440  Geology Seminar (AWR) (3 cr.)
10. GEL Elective, including undergraduate research (3-4 cr.)

B. Cognate Requirements (33 cr.)
1. MAT 131  Quantitative Reasoning (3 cr.)
2. MAT 161  Introductory Statistics (3 cr.)
3. Biology with Laboratory (4 cr.)
4. PHY 101  Introduction to Physics I (4 cr.)
5. CHE 101  General Chemistry I (4 cr.)
6. ENG 255  Literature and Science (3 cr.)
7. SCI 430  Sci Teaching. Methods (7-12) (3 cr.)
8. HED 310  Foundations of Personal Health (3 cr.)
9. EDU 280  Introduction to Adolescence Education (6 cr.)

C. Education Requirements (42 cr.)
1. EDU 5120  Adolescent Development for Education Professionals (2 cr.)
2. EDU 5130  Assessment in Education (2 cr.)
3. EDU 5150  Curriculum Design and Pedagogical Methods: Grades 7-12 (3 cr.)
4. EDU 5160  School Culture, Settings, and Systems in the 21st Century (2 cr.)
5. EDU 5170  Educational Technology I (2 cr.)
6. EDU 5180  Practitioner Research in Education I: Planning Research (2 cr.)
7. EDR 501  Intro. to Literacy Instruction (3 cr.)
8. EDU 5250  Curriculum Design and Pedagogical Methods II: Grades 7-12 (4 cr.)
9. EDU 5270  Educational Technology II (2 cr.)
10. EDS 543  Inclusive Schools and Communities (3 cr.)
11. EDU 5280  Practitioner Research in Education II: Conducting Research (2 cr.)
12. EDR 514  Exploring Multicultural Competencies and Literacy Instruction (3 cr.)
13. EDT 594  Student Teaching (12 cr.)

D. Capstone Project (0 cr.)

TOTAL CREDITS minimum 150 (including General Education Requirements)
COMBINED BACHELOR'S / MASTER'S PROGRAMS

Capstone Project
Successfully complete a portfolio begun in EDU 280 Introduction to Adolescence Education. Artifacts from the undergraduate content major as well as from the graduate education courses that demonstrate a blending of content area and pedagogy will be added to the portfolio throughout the remainder of the program. The completed portfolio will be reviewed and evaluated by both content and pedagogy faculty.

ADDITIONAL DEGREE REQUIREMENTS
1. A minimum grade of C in each course used to meet content area and cognate requirements.
2. Cumulative GPA of at least 2.75 in undergraduate courses.
3. Cumulative GPA of at least 3.0 in graduate courses.
4. No grade lower than a B in required graduate education courses.

* This program leads to New York state teacher certification in Earth Science 7-12.

HISTORY/ADOLESCENCE EDUCATION*
Bachelor of Arts/Master of Science for Teachers Curriculum 0222/0859 Requirements

MAJOR REQUIREMENTS 122

A. Content Area Requirements (68 cr.)
1. ANT 102 Comparative Cultures (3 cr.)
2. PSC 100 U.S. National Politics (3 cr.)
3. SOC 101 Introduction to Sociology (3 cr.)
4. PSY 101 General Psychology (3 cr.)
5. ECO 101 Principles of Economics (3 cr.)
6. HIS 101 U.S. Civilization to 1877 (3 cr.)
7. HIS 102 U.S. Civilization Since 1877 (3 cr.)
8. HIS 121 European Civ to 1815 (3 cr.) or HIS 122 European Civ Since 1815 (3 cr.)
9. HIS 132 Modern Global History (3 cr.)
10. HIS 100-level course on Latin America, Asia, or Canada (3 cr.)
11. History 100-level course on Latin American, Asia, or Canada (3 cr.)( May not be in the same geographic area as #10 above.)
12. HIS 285 Historical Practices (3 cr.)
13. HIS 385 Advanced Historical Practices (AWR) (3 cr.)
14. HIS 300-400 level courses (12 cr.)
15. Three courses in one of these “Social Science Fields”: African-American Studies, Asian Studies, Canadian Studies, Communications/Mass Media, Cultural Anthropology, Economics, Geography, International Studies, Latin American Studies, Political Science, Psychology, Sociology, or Women’s Studies (9 cr)
16. Two of the following courses (6 cr.)
   GEG 121 Human Geography (3 cr.)
   GEG 123 World Geography: The Developing World (3 cr.)
   GEG 124 World Geography: The Developing World (3 cr.)
   GEG 310 Geography of the U.S. (3 cr.)
   GEG 319 Geography of New York state (3 cr.)

B. Cognate Requirements (12 cr.)
1. HIS 396 Teaching Soc. Stu. Methods (3 cr.)
2. HED 310 Foundations of Personal Health (3 cr.)
3. EDU 280 Intro. to Adolescence Ed. (6 cr.)

C. Education Requirements (42 cr.)
1. EDU 5120 Adolescent Development for Education Professionals (2 cr.)
2. EDU 5130 Assessment in Education (2 cr.)
3. EDU 5150 Curriculum Design and Pedagogical Methods: Grades 7-12 (3 cr.)
4. EDU 5160 School Culture, Settings, and Systems in the 21st Century (2 cr.)
5. EDU 5170 Educational Technology I (2 cr.)
6. EDU 5180 Practitioner Research in Education I: Planning Research (2 cr.)
7. EDR 501 Introduction to Literacy Instruction (3 cr.)
8. EDU 5250 Curriculum Design and Pedagogical Methods II: Grades 7-12 (4 cr.)
9. EDU 5270 Educational Technology II (2 cr.)
10. EDS 543 Inclusive Schools and Communities (3 cr.)
11. EDU 5280 Practitioner Research in Education II: Conducting Research (2 cr.)
12. EDR 514 Exploring Multicultural Competencies and Literacy Instruction (3 cr.)
13. EDT 594 Student Teaching (12 cr.)

D. Capstone Project (0 cr.)
TOTAL CREDITS minimum 150
(including General Education Requirements)

Capstone Project
Successfully complete a portfolio begun in EDU 280 Introduction to Adolescence Education. Artifacts from the undergraduate content major as well as from the graduate education courses that demonstrate a blending of content area and pedagogy will be added to the portfolio throughout the remainder of the program. The completed portfolio will be reviewed and evaluated by both the content and pedagogy faculty.

ADDITIONAL DEGREE REQUIREMENTS
1. A minimum grade of C in each course used to meet content area and cognate requirements.
2. Cumulative GPA of at least 2.75 in undergraduate courses.
3. Cumulative GPA of at least 3.0 in graduate courses.
4. No grade lower than a B in required graduate education courses.

*This program leads to New York state teacher certification in Social Studies 7-12.
COMBINED BACHELOR’S / MASTER’S PROGRAMS

MATHEMATICS/ADOLESCENCE EDUCATION
Bachelor of Arts/Master of Science for Teachers Curriculum 0219/0848 Requirements

MAJOR REQUIREMENTS CREDITS

A. Content Area Requirements (39 cr.)
1. MAT 202 Linear Algebra I (3 cr.)
2. MAT 224 Calculus I (4 cr.)
3. MAT 225 Calculus II (4 cr.)
4. MAT 231 Sets, Functions, and Relations (3 cr.)
5. MAT 301 Introduction to Abstract Algebra (3 cr.)
6. MAT 302 Linear Algebra II (3 cr.)
7. MAT 326 Calculus III (4 cr.)
8. MAT 353 Geometry (3 cr.)
9. MAT 361 Probability and Statistics (3 cr.)
10. MAT 397 Core Mathematics Problem Seminar (AWR) (3 cr.)
11. MAT 410 Mathematical Connections for Secondary Teachers (3 cr.)
12. MAT 428 Foundations of Calculus (3 cr.)

B. Cognate Requirements (12 cr.)
1. CSC 121 Introduction to Computing and the Web (3 cr.)
2. HED 310 Foundations of Personal Health (3 cr.)
3. EDU 280 Introduction to Adolescence Education (6 cr.)

C. Education Requirements (42 cr.)
1. EDU 5120 Adolescent Development for Education Professionals (2 cr.)
2. EDU 5130 Assessment in Education (2 cr.)
3. EDU 5150 Curriculum Design and Pedagogical Methods: Grades 7-12 (3 cr.)
4. EDU 5160 School Culture, Settings, and Systems in the 21st Century (2 cr.)
5. EDU 5170 Educational Technology I (2 cr.)
6. EDU 5180 Practitioner Research in Education I: Planning Research (2 cr.)
7. EDR 501 Introduction to Literacy Instruction (3 cr.)
8. EDU 5250 Curriculum Design and Pedagogical Methods II: Grades 7-12 (4 cr.)
9. EDU 5270 Educational Technology II (2 cr.)
10. EDS 543 Inclusive Schools and Communities (3 cr.)
11. EDU 5280 Practitioner Research in Education II: Conducting Research (2 cr.)
12. EDR 514 Exploring Multicultural Competencies and Literacy Instruction (3 cr.)
13. EDT 594 Student Teaching (12 cr.)

D. Capstone Project (0 cr.)

TOTAL CREDITS minimum 150
(including General Education Requirements)

Capstone Project
Successfully complete a portfolio begun in EDU 280 Introduction to Adolescence Education. Artifacts from the undergraduate content major as well as from the graduate education courses that demonstrate a blending of content area and pedagogy will be added to the portfolio throughout the remainder of the program. The completed portfolio will be reviewed and evaluated by both the content and pedagogy faculty.

ADDITIONAL DEGREE REQUIREMENTS
1. A minimum grade of C in each course used to meet content area and cognate requirements.
2. Cumulative GPA of at least 2.75 in undergraduate courses.
3. Cumulative GPA of at least 3.0 in graduate courses.
4. No grade lower than a B in required graduate education courses.

PHYSICS/ADOLESCENCE EDUCATION
Bachelor of Arts/Master of Science for Teachers Curriculum 0218/0847 Requirements

MAJOR REQUIREMENTS CREDITS

A. Content Area Requirements (29-31 cr.)
1. PHY 111 General Physics I (4 cr.)
2. PHY 112 General Physics II (4 cr.)
3. PHY 311 Analytical Mechanics (3 cr.)
4. PHY 314 Intro. to Modern Physics (3 cr.)
5. PHY 380 Intermediate Laboratory (3 cr.)
6. PHY 398 Technical Reports in Physics and Engineering (AWR) (3 cr.)
7. Physics Electives (9-11 cr.)
   PHY 341 Thermodynamics (3 cr.)
   PHY 365 Electronics for Scientists (4 cr.)
   PHY 421 Fundamentals of Electromagnetism (3 cr.)
   PHY 431 Physical Optics (4 cr.)
   PHY 452 Quantum Mechanics (3 cr.)
   PHY 495 Undergraduate Research (2-6 cr.)

B. Cognate Requirements (42 cr.)
1. CHE 111 Fundamental Principles of Chemistry I (4 cr.)
2. CHE 112 Fundamental Principles of Chemistry II (4 cr.)
3. CSC 221 Intro. to Programming (4 cr.)
4. MAT 224 Calculus I (4 cr.)
5. MAT 225 Calculus II (4 cr.)
6. MAT 326 Calculus III (4 cr.)
7. MAT 426 Differential Equations (3 cr.)
8. ENG 255 Literature and Science (3 cr.)
9. SCI 430 Science Teaching Methods (7-12) (3 cr.)
10. HED 310 Foundations of Personal Health (3 cr.)
11. EDU 280 Introduction to Adolescence Education (6 cr.)
C. Education Requirements (42 cr.)
1. EDU 5120 Adolescent Development for Education Professionals (2 cr.)
2. EDU 5130 Assessment in Education (2 cr.)
3. EDU 5150 Curriculum Design and Pedagogical Methods: Grades 7-12 (3 cr.)
4. EDU 5160 School Culture, Settings, and Systems in the 21st Century (2 cr.)
5. EDU 5170 Educational Technology I (2 cr.)
6. EDU 5180 Practitioner Research in Education I: Planning Research (2 cr.)
7. EDU 5190 Introduction to Literacy Instruction (3 cr.)
8. EDU 5250 Curriculum Design and Pedagogical Methods II: Grades 7-12 (4 cr.)
9. EDU 5270 Educational Technology II (2 cr.)
10. EDS 543 Inclusive Schools and Communities (3 cr.)
11. EDU 5280 Practitioner Research in Education II: Conducting Research (2 cr.)
12. EDR 514 Exploring Multicultural Competencies and Literacy Instruction (3 cr.)
13. EDT 594 Student Teaching (12 cr.)

D. Capstone Project (0 cr.)

TOTAL CREDITS minimum 150
(including General Education Requirements)

Capstone Project
Successfully complete a portfolio begun in EDU 380 Introduction to Adolescence Education. Artifacts from the undergraduate content major as well as from the graduate education courses that demonstrate a blending of content area and pedagogy will be added to the portfolio throughout the remainder of the program. The completed portfolio will be reviewed and evaluated by both the content and pedagogy faculty.

ADDITIONAL DEGREE REQUIREMENTS
1. A minimum grade of C in each course used to meet content area and cognate requirements.
2. Cumulative GPA of at least 2.75 in undergraduate courses.
3. Cumulative GPA of at least 3.0 in graduate courses.
4. No grade lower than a B in required graduate education courses.

SPANISH/ADOLESCENCE EDUCATION
Bachelor of Arts/Master of Science for Teachers
Curriculum 0227/8015 Requirements

MAJOR REQUIREMENTS

A. Content Area Requirements (30 cr.)
1. Language and Culture Courses (6 cr.)
   SPA 213 Intermediate Spanish (3 cr.)
   SPA 214 Intermediate Spanish (3 cr.)
2. Advanced Language and Culture Courses (6 cr.)
   SPA 314 Conversación (3 cr.)
   SPA 315 Composición (AWR) (3 cr.)
3. Literature and Culture Courses (6 cr.)
   SPA 385 Introduccion a Hispanoamérica I (3 cr.)
   SPA 386 Introduccion a Hispanoamérica II (3 cr.)
4. Advanced Literature and Culture Courses (9 cr.)
   Complete 9 credits from among the courses listed below. These courses may be repeated for credit with different content.
   SPA 440 Tópicos en estudios hispanoamericanos (3 cr.)
   SPA 450 Tópicos en estudios peninsulares (3 cr.)
   SPA 470 Topics in Hispanic Interdisciplinary Studies (3 cr.)

5. Related Studies (taught in Spanish), select one course (3 cr.)
   ENG 271 Latina/o Literature in the U.S. (3 cr.)
   FLL 192 World Literature in Translation (3 cr.)
   FLL 245 Latin American Culture through Film (3 cr.)
   FLL 340 European Films (3 cr.)
   INT 301 Political Economy of Sustainable Development (3 cr.)
   SPA 220 Latin American and Spanish Literature (in English) (3 cr.)

B. Cognate Requirements (18 cr.)
1. SPA 496 Spanish Foreign Language Methodology (3 cr.)
2. SPA 497 Spanish Practicum (3 cr.)
3. LIN 221 Intro. to General Linguistics (3 cr.)
4. HED 310 Foundations of Personal Health (3 cr.)
5. EDU 280 Introduction to Adolescence Education (6 cr.)

C. Education Requirements (42 cr.)
1. EDU 5120 Adolescent Development for Education Professionals (2 cr.)
2. EDU 5130 Assessment in Education (2 cr.)
3. EDU 5150 Curriculum Design and Pedagogical Methods: Grades 7-12 (3 cr.)
4. EDU 5160 School Culture, Settings, and Systems in the 21st Century (2 cr.)
5. EDU 5170 Educational Technology I (2 cr.)
6. EDU 5180 Practitioner Research in Education I: Planning Research (2 cr.)
COMBINED BACHELOR’S / MASTER’S PROGRAMS

7. EDR 501  Introduction to Literacy Instruction (3 cr.)
8. EDU 5250  Curriculum Design and Pedagogical Methods II: Grades 7-12 (4 cr.)
9. EDU 5270  Educational Technology II (2 cr.)
10. EDS 543  Inclusive Schools and Communities (3 cr.)
11. EDU 5280  Practitioner Research in Education II: Conducting Research (2 cr.)
12. EDR 514  Exploring Multicultural Competencies and Literacy Instruction (3 cr.)
13. EDT 594  Student Teaching (12 cr.)

D. Capstone Project (0 cr.)

TOTAL CREDITS minimum 150 (including General Education Requirements)

Capstone Project
Successfully complete a portfolio begun in EDU 280 Introduction to Adolescence Education. Artifacts from the undergraduate content major as well as from the graduate education courses that demonstrate a blending of content area and pedagogy will be added to the portfolio throughout the remainder of the program. The completed portfolio will be reviewed and evaluated by both the content and pedagogy faculty.

ADDITIONAL DEGREE REQUIREMENTS
1. A minimum grade of C in each course used to meet content area and cognate requirements.
2. Cumulative GPA of at least 2.75 in undergraduate courses.
3. Cumulative GPA of at least 3.0 in graduate courses.
4. No grade lower than a B in required graduate education courses.