

BROOKLYN COLLEGE
OF
THE CITY UNIVERSITY OF NEW YORK
FACULTY COUNCIL

Meeting of 9/9/2014

The Committee on Graduate Curriculum and Degree Requirements herewith submits its
recommendations in Curriculum Document 222

Material located with strike-through is to be deleted and material underlined is to be added.

Respectfully submitted,

David Grubbs – Conservatory of Music

Wen-Song Hwu – Childhood, Bilingual and Special Education

Howard Zeng – Kinesiology

Paula Whitlock – Computer and Information Science, Chairperson

Members of Faculty Council with any questions are urged to contact **Paula Whitlock** at **whitlock@brooklyn.cuny.edu** prior to the meeting.

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A-III CHANGES IN DEGREE REQUIREMENTS

Department of Secondary Education

Date of Departmental Approval: March 11, 2014

Effective date: Fall 2015

Clearances: Biology Department

M.A. degree program in education: biology teacher (7-12)

HEGIS code 0401.01, NYS SED program code 26742

The profession of teacher education is licensed by the New York State Education Department. Therefore, program requirements are subject to change. All students should consult with the Head of the program in adolescence science education for the current requirements.

Matriculation requirements

Applicants must offer adequate preparation in the following, with an average grade of B or higher in biology courses: general biology; general physics; an advanced course in botany, zoology, general physiology, and genetics; and two terms of organic chemistry.

Applicants must also offer (a) or ~~(b) or (c)~~:

(a) New York State Initial Certification in Adolescence Education in teaching biology for grades 7-12; or

~~(b)~~ eCourses in education or equivalent course work and teaching experience that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology;

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educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching biology in grades 7–12; 100 hours of fieldwork; 40 full days or 300 hours of student teaching of biology in grades 7–12, or one year of full-time teaching of biology in grades 7–12; passage of edTPA.

(b)(e) ~~a~~ An undergraduate degree with a major in biology or appropriate course work in biology.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) before being considered for admission. For more updated and complete information on minimum passing scores see the section on additional admission requirements for students with international credentials in the Graduate Bulletin or the program web page. At the discretion of the program, additional English courses may be required as a condition for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the Head of the program in adolescence science education in the School of Education and the chairperson of the Biology Department.

Applicants should see the Head of the program in adolescence science education for ~~counseling~~ advisement.

General matriculation and admission requirements of the Division of Graduate Studies are in the chapter "Admission."

Degree requirements

Material located with strike-through is to be deleted and material underlined is to be added.

A minimum of 34 credits is required for the degree.

Students must complete 22 credits in biology and related areas.

Students must also complete either Option A or B below. With the approval of the science education program head, students enroll in the appropriate Option A or Option B based upon teaching experience, previous course work, and the teaching certificates they hold.

Option A (for in-service teachers):34 credits

This option is for students who possess an New York State Initial Certification in teaching biology grades 7–12, or its equivalent.

Students must complete 12 credits in courses in the Department of Secondary Education. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching biology must complete ~~9 credits in Group II and 3 credits in Group III, below.~~ all of the following:

SEED 7502T or SEED 7324X, SEED 7500X or SEED 7315X, SEED 7340T or SEED 7320T, and 7503X or 7038X or SEED 7325X.

Option B (for pre-service teachers):34–50 credits

Students who do not possess Initial Certification in teaching biology or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching biology must have the appropriate course work and credits in the subject area and must complete ~~courses in Group I, Group II, and 7503X in Group III below.~~ appropriate courses in (a), (b) and (c) below:

(a) SEED 7500X or SEED 7315X, SEED 7501X or SEED 7314X, SEED 7502T or SEED 7324X, SEED 7503X or SEED 7325X, SEED 7340T or SEED 7320T.

(b) SEED 7380T, SEED 7381T, SEED 7383T, SEED 7542T, SEED 7543T.

(c) SEED 7671X.

The student teaching methods course (SEED 7380T) must precede the student teaching seminars (SEED 7381T and SEED 7383T) and field experience (SEED 7542T and SEED 7543T). ~~Students who already have a master's degree but wish Initial Certification in teaching biology must take appropriate courses in Group I and Group III, below, as determined at the time of matriculation by the Head of the program in adolescence science education.~~

Group I:

Group II:

~~Secondary Education 7502T, 7327T or 7326X, 7340T.~~

Group III:

~~Secondary Education 7547T, 7527T, 7545X, 7503X, 7548X/ENGL 7507X, 7315, 7038X.~~

Students who wish to register for student teaching seminar and field placement in the science education program will need to file an application with the science education program head for permission. See program office for details.

Students must pass a comprehensive examination or submit a thesis acceptable to the Biology Department. Information about requirements for the comprehensive examination and the thesis is in the chapter "Academic Regulations and Procedures."

The program of study must be approved early in the first semester by the chairperson or the deputy chairperson of the Biology Department and the Head of the program in adolescence science education in the School of Education.

Rationale:

Because of CUNYfirst, the program description is being rewritten so that it is separated into two options, A and B. Other than providing more course options, the required number of credits and number of courses for either in-service or pre-service teacher candidates remain the same.

A-III CHANGES IN DEGREE REQUIREMENTS

Department of Secondary Education

Date of Departmental Approval: March 11, 2014

Effective date: Fall 2015

Clearances: Chemistry Department

M.A. degree program in education: chemistry teacher (7–12)

HEGIS code 1905.01; SED program code 26766

Students taking this program gain in–depth knowledge of some area of modern organic, inorganic, quantum chemistry, biochemistry or instrumental analysis. Seminar courses provide exposure to diverse subject matter in areas of current research interest within the department and beyond. Students also receive a detailed introduction to the use of the teaching laboratory in adolescent education. The School of Education component prepares students for teaching; the required courses vary depending on the entry qualifications of students. The profession of teacher education is licensed by the New York State Education Department. Therefore, program requirements are subject to change. All students should consult with the Head of the program in adolescence science education for the current requirements.

Matriculation requirements

Applicants must offer courses in chemistry as follows: general chemistry, including qualitative analysis; a comprehensive course in organic chemistry (may be one or two terms depending on

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curriculum) one term of physical chemistry; and analytical chemistry.

Applicants must also offer (a) or ~~(b) or (c)~~:

(a) New York State Initial Certification in teaching chemistry grades 7-12; or

~~(b)~~ courses in education or equivalent course work and teaching experience that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching chemistry in grades 7-12; 100 hours of fieldwork; 40 full days or 300 hours of student teaching chemistry in grades 7-12, or one year of full-time teaching of chemistry in grades 7-12; passage of the edTPA.

~~(b)(c)~~ a An undergraduate degree with a major in chemistry or appropriate course work in chemistry.

Applicants must have a minimum undergraduate scholastic index of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) before being considered for admission. For more updated and complete information on minimum passing scores see the section on additional admission requirements for students with international credentials in the Graduate Bulletin or the program web page. At the discretion of the program, additional English courses may be required as a condition for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the Head of the program in adolescence science education in the School of Education and the chairperson of the Chemistry Department.

Applicants should see the Head of the program in adolescence science education for ~~counseling~~ advisement.

General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admission."

Degree requirements

A minimum of 30 credits are required for the degree.

Students must complete one of the following courses: Chemistry 7761G, 7550G, 7571G, 7670G or 7640G.

Students must also complete Chemistry 7450G.

Students must complete an additional 5 credits in graduate courses in Chemistry, for a total of 12 credits in Chemistry.

Six of the remaining 18 credits required for the degree may be taken in the Chemistry Department or in other science subjects directly related to chemistry.

Students must also complete either Option A or B below. With the approval of the science education program head, students enroll in the appropriate Option A or Option B based upon teaching experience, previous course work, and the teaching certificates they hold.

Option A (for in-service teachers): 30 credits

This option is for students who possess an New York State Initial Certification in teaching chemistry grades 7–12, or its equivalent.

Students must complete 12 credits in courses in the Department of Secondary Education. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching chemistry must complete all of the following:

SEED 7502T or SEED 7324X, SEED 7500X or SEED 7315X, SEED 7340T or SEED 7320T, and SEED 7503X or SEED 7038X or SEED 7325X.

Material located with strike-through is to be deleted and material underlined is to be added.

Option B (for pre-service teachers):30-46 credits

Students who do not possess Initial Certification in teaching chemistry or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching chemistry must have the appropriate course work and credits in the subject area and must complete appropriate courses in (a), (b) and (c) below:

(a) SEED 7500X or SEED 7315X, SEED 7501X or SEED 7314X, SEED 7502T or SEED 7324X, SEED 7503X or SEED 7325X, SEED 7340T or SEED 7320T.

(b) SEED 7380T, SEED 7381T, SEED 7383T, SEED 7542T, SEED 7543T.

(c) SEED 7671X.

Students who wish to register for student teaching seminar and field placement in the science education program will need to file an application with the science education program head for permission. See program office for details.

Students must pass a comprehensive examination or submit a thesis acceptable to the Chemistry Department. Information about requirements for the comprehensive examination and the thesis is in the chapter "Academic Regulations and Procedures."

~~Students must complete 12 credits in courses in the Department of Secondary Education (SEED). Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching chemistry must complete 9 credits in Group II and 3 credits in Group III, below.~~

~~Students who do not possess Initial Certification in teaching chemistry or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching chemistry must have the appropriate course work and credits in the subject area and must complete courses in Group I, Group II, and 7503X in Group III below. The student teaching methods course (SEED 7380T) must precede the student teaching seminars (SEED 7381T and SEED 7383T) and field experience (SEED 7542T and SEED 7543T). Students who already have a master's degree but wish Initial Certification in teaching chemistry must take appropriate courses in Groups I and III,~~

~~below, as determined at the time of matriculation by the Head of the program in adolescence science education in the School of Education.~~

~~Group I:~~

~~Secondary Education 7500X, 7501X or 7314X, , 7542T, , 7380T, 7381T, 7383T, 7671X, 7543T.~~

~~Group II:~~

~~Secondary Education 7502T, 7327T or 7326X, 7340T.~~

~~Group III:~~

~~Secondary Education 7547T, 7527T, 7545X, 7503X, 7548X/ENGL 7507X, 7315, 7038X.~~

Courses in the Chemistry Department or other science departments and the School of Education offered toward the degree must be 7000-level courses.

The program of study must be approved early in the first semester by the chairperson or the deputy chairperson of the Chemistry Department and the Head of the program in adolescence science education.

Rationale:

Because of CUNYfirst, the program description is being rewritten so that it is separated into two options, A and B. Other than providing more course options, the required number of credits and number of courses for either in-service or pre-service teacher candidates remain the same.

A-III CHANGES IN DEGREE REQUIREMENTS

Department of Secondary Education

Date of departmental approval: March 11, 2014

Effective Date of the change: Fall 2014

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M.A. degree program in education: English teacher (7–12)

HEGIS code 1501.01; SED program code 26811

The M.A. programs in English education leading to Initial Certification and/or Professional Certification for English teachers grades 7–12 are designed for students who plan to teach or are currently teaching. The programs offer experienced and beginning teachers opportunities to develop their classroom practice and to expand their knowledge of English education and the field of education as a whole. Courses are taught by nationally known scholars, many of whom have had experience teaching at secondary levels. Our programs combine rigorous and rewarding study in literature and composition with intensive study of curriculum, pedagogy, and schools. The profession of teacher education is licensed by the New York State Education Department. Therefore, program requirements are subject to change. All students should consult with the Department of Secondary Education for the current requirements.

Matriculation requirements

Applicants must offer at least 15 credits in advanced courses in English.

Applicants must also offer (a) or (b) or (c):

(a) New York State Initial Certification in teaching English for grades 7–12; or courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles

of education or ~~Education~~, educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching English at appropriate age levels; 100 hours of fieldwork; 300 hours or 40 full days of student teaching English at appropriate grade levels, or one year of full-time teaching English at appropriate grade levels, and passage of edTPA;

(b) an undergraduate degree with a major in English, or appropriate coursework in English;

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(c) an undergraduate major in English, the Content Specialty Test CST, an approved 200 hours preparation program and a position at an approved public school through which students can accrue on-the-job training to substitute for student teaching.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the head of the program in English education and the chair or graduate deputy of the English Department.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 650 on the paper-based test or 280 on the computer-based test or 114 on the internet-based test, before being considered for admission.

Students should note additional requirements found in the sections "Admission" and "Academic Regulations and Procedures" in the Graduate Bulletin.

Degree requirements

Thirty to forty-six credits are required for the degree.

Students must complete 18 credits in courses in English.

Students enroll in the appropriate course of studies listed below

(Option A or B or C) based upon teaching experience, previous course work, and the teaching certificates they hold.

Material located with strike-through is to be deleted and material underlined is to be added.

Option (A): 30 credits

Students who possess Initial Certification in teaching English or its equivalent ~~course work and teaching experience~~ must complete the following courses in English: English 7010X and 7011X. In addition, students must complete a course in four of the seven areas of study listed under the M.A. in English in the Bulletin, as follows: three courses from areas 1–5 and 7, excluding English 7507X; and one course from area 6. Student must also complete 12 credits in courses in Education as follows: SEED 7502T, SEED 7508T, SEED 7548X and SEED 7521T.

Option (B): 30–46 credits

Students who do not possess Initial Certification in teaching English or its equivalent ~~course work and teaching experience~~ must complete the following courses in English: English 7010X, English 7011X and English 7507X.

In addition, and with advisement from the chair or graduate deputy of the English department, students must complete a course in two of the seven areas of study listed under the M.A. in English in the Bulletin, as follows: two courses from areas 1–4 and 7; and one course from area 6.

Depending on previous coursework, ~~S~~tudents must also complete some or all of the following courses in Secondary Education: SEED 7500X, SEED 7501X, SEED 7531T, SEED 7542T, SEED 7514T, SEED 7543T, SEED 7502T, SEED 7508T, SEED 7521T, and SEED 7671T.

Option (C): 36 credits

Students who are teaching or have secured a position teaching English and who are pursuing an Alt B Certificate must complete the following courses in English: English 7010X, English 7011X and English 7507X. In addition, and with advisement from the chair or graduate deputy of the English department, students must complete a course in two of the seven areas of study listed under the M.A. in English in the Bulletin, as follows: two courses from areas 1–4 and 7; and one course from area 6. Students pursuing an Alt B Certificate may substitute their teaching job for student teaching but upon consultation with their advisor must still register for SEED 6002T and must take SEED 7500X, SEED 7531T, SEED 7514T, SEED 7502T, SEED 7671T, and SEED 7508T.

All students must pass a written comprehensive examination administered by the English

Department at the end of their program. Information about the comprehensive examination is in the section of the "Academic Regulations and Procedures." Courses in the English Department and the School of Education offered toward the degree must be 7000-level courses.

Students pursuing an M.A. English Teacher must have taken or must take courses that meet the New York State and National Council of Teachers of English NCTE English standards. Transcript review will determine what appropriate course work students must take.

Rationale: To address changes in the admissions system and still accommodate the varying academic backgrounds of our students, Option B has been changed to 30-46 credits. Other changes reflect changes in NYSED requirements, including the mandating of edTPA.

A-III CHANGES IN DEGREE REQUIREMENTS

Department of Secondary Education

Date of departmental approval: March 11, 2014

Effective Date of the change: Fall 2014

Clearances: Department of Modern Languages

M.A. degree program in education: French teacher (7–12)

HEGIS code 1102.01; SED program code 26797

The Department of Modern Languages and Literature in conjunction with the Department of Secondary Education, offers a master of arts degree in education for French teachers (grades 7–12). The New York State Education Department licenses graduates of registered teacher education programs who meet the state requirements for teachers. All students should consult with the Department of Secondary Education for current requirements. ~~Please consult the Bulletin under Modern Languages and Literature for the M.A. degree program French teacher (7–12) HEGIS code 1102.01.~~

This master of arts program provides students with an introduction to the French/Francophone literature. At the same time, the focus on language and culture fully prepares students for employment as foreign language teachers at the middle and high school levels. Coursework is divided between the Department of Modern Languages and Literatures (six courses) and the Department of Secondary Education (~~generally four courses~~). The courses required by the Department of Secondary Education vary depending on the entry qualifications of students. ~~All students should consult with the Department of Secondary Education for the current requirements.~~ The profession of teacher education is licensed by the New York State Education Department.

Material located with strike-through is to be deleted and material underlined is to be added.

Therefore, program requirements are subject to change. All students should consult with the School of Education for the current requirements.

Matriculation requirements

Applicants must offer at least 18 credits in advanced courses in French.

Applicants must also offer (a) or ~~(b)~~ ~~or~~ ~~(e)~~:

(a) New York State Initial Certification in ~~Adolescence Education~~ French teacher for grades 7–12-
or

~~(b)~~ courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching French in grades 7–12; 100 hours of fieldwork; 40 full days or 300 hours of student teaching of French in grades 7–12; or one year of full-time teaching French at appropriate grade levels, and passage of edTPA.

~~(e)~~ b) an undergraduate degree with a major in French or appropriate course work in French.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of at least 550 on the paper-based test or 213 on the computer-based test or 79 on the internet-based test, before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual

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consideration and may be admitted with conditions, with the approval of the chairperson of the Department of Secondary Education ~~head of adolescence education and special subjects in the School of Education~~ and the chairperson of the Department of Modern Languages and Literatures.

~~Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and special subjects for counseling.~~

General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admission."

Degree requirements

~~A minimum of 30 credits is~~ Thirty to forty six credits are required for the degree.

~~Students must complete 12 credits in courses in the School of Education.~~

~~Students take different education courses and sequences of courses depending on their previous course work, teaching experience~~

~~, and the certificates they hold.~~

~~Students who possess Initial Certification in teaching French must complete 9 credits in Group II and 3 credits in Group III, below.~~

~~Students who do not possess Initial Certification in teaching French or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching~~

~~French must have the appropriate course work and credits in the subject area and must complete the~~

~~appropriate courses in Group I before taking courses in Groups II and III, below.~~

~~Students pursuing Initial Certification in teaching French must take Secondary Education 7503X, Teaching Writing Across the Curriculum, in Group~~

~~III.~~

~~Students who already have a master's degree but wish Initial Certification in teaching Spanish or~~

~~French must take appropriate courses in Group I~~

~~and Group III, below, as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.~~

~~= Group I~~

~~Secondary Education 7500X, 7501X, 7534T, 7542T, 7516T, 7543T.~~

~~= Group II~~

~~Secondary Education 7502T, 7510T, 7523T.~~

~~= Group III~~

~~Secondary Education 7005X, 7504T, 7671X, 7527T, 7684T, 7545X, 7503X, Secondary Education 7548X/English 7507X, Secondary Education~~

~~7549X/Theater 7141X, Secondary Education 7038X.~~

Students must ~~also~~ complete requirements in French as follows:

~~The following courses are required:~~ French 7010X; 7510X or 7520X; Students must pass a written and oral comprehensive examination or complete both (a) and (b):

(a) complete 12 credits of course work in addition to the credits otherwise required;

(b) and write a substantial research paper, in French, acceptable to the Department of Modern Languages and Literatures.

Information about the comprehensive examination is in the section "Academic Regulations and Procedures."

Courses in the Modern Languages and Literatures Department and the School of Education offered toward the degree must be 7000-level courses. The program of study must be approved early in the first semester by the chairperson or deputy chairperson of the Modern Languages and Literatures Department and the ~~head~~ chairperson of adolescence the Department of Secondary Education ~~and special subjects in the School of Education,~~

Students enroll in the appropriate education courses listed below (Option A or B) based upon teaching experience, previous course work, and the teaching certificates they hold.

Option (A): 30 credits

Students who possess Initial Certification in teaching French or the equivalent must complete the following courses in Secondary Education: SEED 7502T, SEED 7510T, SEED 7548X, and SEED 7523T.

Option (B) 30-46 credits

Students who do not possess Initial Certification in teaching French or the equivalent must, depending on their previous coursework, complete some or all of the following courses in Secondary Education: SEED 7500X, SEED 7501X, SEED 7534T, SEED 7542T, SEED 7516T, SEED 7543T, SEED 7671X, SEED 7502T, SEED 7548X and SEED 7523T.

Rationale: The description of the program for French teacher 7–12 has been changed to simplify and clarify the requirements for the different options available to students. Changes in NYSED requirements also required the change in credits.

A-III CHANGES IN DEGREE REQUIREMENTS

Department of Secondary Education

Date of Departmental Approval: March 11, 2014

Effective Date: Fall 2015

Clearances: Physics Department

M.A. degree program in education: physics teacher (7–12)

HEGIS code 1902.01; SED program code 26762

The M.A., physics teacher program prepares students for a career in teaching at the high school level. It includes courses in education, as well as physics, which are designed to help graduate students become more effective high school physics teachers. The courses required by the Department of Secondary Education vary depending on the entry qualifications of students.

The profession of teacher education is licensed by the New York State Education Department. Therefore, program requirements are subject to change. All students should consult with the Head of the program in adolescence science education for the current requirements.

Matriculation requirements

Applicants must offer at least 12 credits in physics beyond general physics.

Applicants must also offer (a) or ~~(b)~~ (c):

Material located with strike-through is to be deleted and material underlined is to be added.

(a) New York State Initial Certification in physics for grades 7–12; or

~~(b)~~ eCourses in education or equivalent course work and teaching experience that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching physics in grades 7–12; 100 hours of fieldwork; 40 full days or 300 hours of student teaching of physics in grades 7–12, or one year of full-time teaching of physics in grades 7–12; passage of edTPA.

~~(c)~~ (b) aAn undergraduate degree with a major in physics or appropriate course work in physics.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) before being considered for admission. For more updated and complete information on minimum passing scores see the section on additional admission requirements for students with international credentials in the Graduate Bulletin or the program web page. At the discretion of the program, additional English courses may be required as a condition for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the Head of the program in adolescence science education in the School of Education and the chairperson of the Physics Department.

Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the Head of the program in adolescence science education for counseling.

General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admission."

Degree requirements

A minimum of thirty credits is required for the degree.

Students must complete 12 credits in courses in the Physics Department including 6 credits in courses on the 7000 level.

Students must also complete either Option A or B below. With the approval of the science education program head, students enroll in the appropriate Option A or Option B based upon teaching experience, previous course work, and the teaching certificates they hold.

Option A (for in-service teachers): 30 credits

This option is for students who possess an New York State Initial Certification in teaching physics grades 7–12, or its equivalent.

Students must complete 12 credits in courses in the Department of Secondary Education. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching physics must complete all of the following:

SEED 7502T or SEED 7324X, SEED 7500X or SEED 7315X, SEED 7340T or SEED 7320T, and SEED 7503X or SEED 7038X or SEED 7325X.

Six credits of electives. These courses may be in education and/or in related science content.

Option B (for pre-service teachers):30–40 credits

Students who do not possess Initial Certification in teaching physics or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching physics must have the appropriate course work and credits in the subject area and must complete appropriate courses in (a), (b) and (c) below:

(a) SEED 7500X or SEED 7315X, SEED 7501X or SEED 7314X, SEED 7502T or SEED 7324X, SEED 7503X or SEED 7325X, SEED 7340T or SEED 7320T.

(b) SEED 7380T, SEED 7381T, SEED 7383T, SEED 7542T, SEED 7543T.

(c) SEED 7671X.

~~Students must complete 12 credits in courses in the Department of Secondary Education (SEED) as described below. The remaining credits required for the degree may be in courses taken in any department.~~

~~Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching physics must complete 9 credits in Group II and 3 credits in Group III, below.~~

~~Students who do not possess Initial Certification in teaching physics or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching physics must have the appropriate course work and credits in the subject area and must complete courses in Group I, Group II, and 7503X in Group III below. The student teaching methods course (SEED 7380T) must precede the student teaching seminars (SEED 7381T and SEED 7383T) and field experience (SEED 7542T and SEED 7543T).~~

~~Students who already have a master's degree but wish Initial Certification in teaching physics must take appropriate courses in Group I and Group III, below as determined at the time of matriculation by the Head of the program in adolescence science education.~~

~~Group I:~~

~~Secondary Education 7500X , 7501X or 7314X, , 7542T, , 7380T, 7381T, 7383T, 7671X, 7543T.~~

~~Group II:~~

~~Secondary Education 7502T, 7327T or 7326X, 7340T.~~

~~Group III:~~

~~Secondary Education 7547T, 7527T, 7545X, 7503X, 7548X/ENGL 7507X, , 7315, 7038X.~~

Material located with strike-through is to be deleted and material underlined is to be added.

Students who wish to register for student teaching seminar and field placement in the science education program will need to file an application with the science education program head for permission. See program office for details.

Students must pass a comprehensive examination or submit a thesis acceptable to the Department of Physics, the choice to be made in consultation with the deputy chairperson of the Physics Department. Information about requirements for the comprehensive examination and the thesis is in the section "Academic Regulations and Procedures."

The program of study must be approved early in the first semester by the chairperson or deputy chairperson of the Physics Department and the Head of the program in adolescence science education in the School of Education.

Rationale: Because of CUNYfirst, the program description is being rewritten so that it is separated into two options, A and B. Other than providing more course options, the required number of credits and number of courses for either in-service or pre-service teacher candidates remain the same.

A-III CHANGES IN DEGREE REQUIREMENTS

Department of Secondary Education

Date of Departmental Approval: March 11, 2014

Effective Date: Fall 2015

M.A. degree program in education: social studies teacher (7–12)

HEGIS code 2201.01; SED program code 26753

This program leads to New York State Initial or Professional Certification to teach social studies, grades 7–12. The length of the program depends on the individual's prior preparation: 30 credits for an individual entering with less than 21 credits in history and initial teaching certification; 30–456 credits for an individual who does not possess initial certification. ~~Non-degree programs are available which lead to certification for individuals with a prior master's degree and less than 21 credits in history and/or geography.~~ Graduates must hold more than 21 credits in history and/or geography to be recommended for NYS certification. Individuals entering without initial certification spend two terms student teaching — one term in a middle/junior high school; one term in a senior high school.

~~All students should consult with the School of Education for the current requirements.~~ The profession of teacher education is licensed by the New York State Education Department. Therefore, program requirements are subject to change. All students should consult with the School of Education for the current requirements.

Matriculation requirements

Material located with strike-through is to be deleted and material underlined is to be added.

Applicants must offer a distribution approved by the social studies program coordinator of at least 21 credits in upper division undergraduate or graduate courses in one or more of the following: economics, geography, history, sociology, and/or political science, ~~preferably~~ including 15 credits in history.

Applicants must also offer (a) or ~~(b) or (c)~~:

(a) New York State Initial Certification in teaching social studies for grades 7-12; or

~~(b) Courses~~ Courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching social studies in grades 7-12; 100 hours of fieldwork; 40 days or 300 hours or 40 full days of student teaching of social studies in grades 7-12 or one year of full-time teaching ~~of~~ social studies in grades 7-12, and passage of edTPA;

~~(c) A~~ B an undergraduate degree with an appropriate major or appropriate course work in the appropriate subject areas.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation. Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the ~~head of adolescence education and special subjects~~ chairperson of the Department of Secondary Education in the School of Education and the program coordinator of social studies. International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 650 on the paper-based test or 280 on the computer-based test or 114 on the internet-based test, before being considered for admission. ~~Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the~~

~~head of adolescence education and special subjects in the School of Education for counseling.~~
General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admissions."

Degree requirements

A minimum of 30-49 credits ~~is~~ are required for the degree. Eighteen credits must be chosen from the field(s) of the Social Studies: History, Political Science, Economics, Sociology. Students must choose at least one course from each of the distribution areas listed below, with a minimum of nine credits in history (not all courses will run every semester):

- 1) Economics: Economics 7215X, 7055X and HIST 7120X, 7441X.

- 2) U.S. Constitution: History 7412X, 7448X and POLS 7200X, 7210X.

- 3) European History: History, 7210X, 7220X, 7120X, 7230X, 7310X, 7320X, 7370X, 7380X and Sociology 7322X.

- 4) Global: History 7110X, 7512X, 7515X, 7517X, 7540X, 7550X, 7552X, 7562X, 7580X, 7530X and Political Science 7610X, 7650X, 7720X, 7780X.

- 5) US History: History 7411X, 7412X, 7420X, 7425X, 7430X, 7440X, 7442X, 7446X, 7448X, 7441X, 7450X, 7460X; Political Science 7030X, 7320X, 7330X, 7470X, 7570X; Sociology 7341X, 7342X, 7352X.

~~Students must complete a minimum 12 credits in courses in the Secondary Education Department. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial~~

~~Certification in teaching social studies must complete 9 credits in Group II and 3 credits in Group III, below.~~

~~Students who do not possess Initial Certification in teaching social studies or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching social studies must have the appropriate course work and credits in the subject area and must complete the appropriate courses in Group I before taking courses in Group II and III, below.~~

~~Students pursuing Initial Certification in teaching social studies must take Secondary Education 7503X, Teaching Writing Across the Curriculum, in Group III. Students who already have a master's degree but wish Initial Certification in teaching social studies must take appropriate courses in Group I and Group III, below, as determined at the time of matriculation by the program head of Social Studies Education.~~

Students must enroll in the appropriate education courses listed below (Option A or B) based upon teaching experience, previous course work, and the teaching certificates they hold.

Option (A): 30 Credits

Students who possess Initial Certification in teaching social studies, 7-12 or the equivalent must complete the following courses in Secondary Education: SEED 7502T, SEED 7671X, SEED 7509T and SEED 7522T.

Option (B) 30-46 credits

Students who do not possess Initial Certification in teaching social studies, 7-12 or the equivalent must, depending on previous coursework, complete some or all of the following courses in Secondary Education: SEED 7500X, SEED 7501X, SEED 7502T, SEED 7503X, SEED 7671X, SEED 7532T, SEED 7542T, SEED 7515T, SEED 7543T, SEED 7509T and SEED 7522T.

~~Group I: Secondary Education 7500X, 7501X, 7532T, 7542T, 7515T, 7543T, 7671T.~~

~~Group II: Secondary Education 7502T, 7509T, 7522T.~~

~~Group III: Secondary Education 7503X.~~

~~Students must complete a research project under advisement of a faculty member in Secondary Education 7522T. This project meets th~~

Rationale: The description of the program for social studies teacher, 7–12 has been changed to simplify and clarify the requirements for the different options available to students. Changes in NYSED requirements also required the change in credits.

A-III CHANGES IN DEGREE REQUIREMENTS

Department of Secondary Education

Date of Departmental Approval: March 11, 2014

Effective Date: Fall 2015

Clearances: Department of Modern Languages

M.A. degree program in education: Spanish teacher (7–12)

HEGIS code 1105.01; SED program code 26800

The Department of Modern Languages and Literature in conjunction with the Department of Secondary Education, offers a master of arts degree in education for Spanish teachers (grades 7–12). The New York State Education Department licenses graduates of registered teacher education programs who meet the state requirements for teachers. All students should consult with the Department of Secondary Education for current requirements. ~~Please consult the Bulletin under Modern Languages and Literature for the M.A. degree program Spanish teacher (7–12) HEGIS code 1105.01; SED program code 26800~~

This master of arts program provides students with an introduction to the Peninsular/Latin American literature. At the same time, the focus on language and culture fully prepares students for employment as foreign language teachers at the middle and high school levels. Coursework is divided between the Department of Modern Languages and Literatures (six courses) and the Department of Secondary Education (~~generally four courses~~). The courses required by the Department of Secondary Education vary depending on the entry qualifications of students. ~~All students should consult with the Department of Secondary Education for the current requirements.~~

Material located with strike-through is to be deleted and material underlined is to be added.

The profession of teacher education is licensed by the New York State Education Department. Therefore, program requirements are subject to change. All students should consult with the School of Education for the current requirements.

Matriculation requirements

Applicants must offer at least 18 credits in advanced courses in Spanish.

Applicants must also offer (a) or ~~(b)~~ or ~~(c)~~:

(a) New York State Initial Certification in ~~Adolescence Education~~ teaching Spanish for grades 7-12, or

~~(b)~~ courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching Spanish in grades 7-12; 100 hours of fieldwork; 40 full days or 300 hours of student teaching of Spanish in grades 7-12; or one year of full-time teaching Spanish at appropriate grade levels, and passage of edTPA.

~~(c)~~ (b) an undergraduate degree with a major in Spanish or appropriate course work in Spanish.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of at least 550 on the paper-based test or 213 on the computer-based test or 79 on the internet-based test, before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the ~~head of adolescence education and special subjects in the School of Education~~ chairperson of the Department of Secondary Education and the chairperson of the Department of Modern Languages and Literatures. ~~Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and special subjects for counseling.~~

General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admission."

Degree requirements

~~A minimum of 30~~ Thirty to forty-six credits ~~is~~ are required for the degree.

~~Students must complete 12 credits in courses of the School of Education. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching Spanish must complete 9 credits in Group II and 3 credits in Group III, below. Students who do not possess Initial Certification in teaching Spanish or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching Spanish must have the appropriate course~~

~~work and credits in the subject area and must complete the appropriate courses in Group I before taking courses in Groups II and III, below. Students pursuing Initial Certification in teaching Spanish must take ED 7503X, Teaching Writing Across the Curriculum, in Group III. Students who already have a master's degree but wish Initial Certification in teaching Spanish must take appropriate courses in Group I and Group~~

Material located with strike-through is to be deleted and material underlined is to be added.

~~III, below, as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.~~

~~=Group I~~

~~Education 7500X, 7501X, 7534T, 7542T, 7516T, 7543T.~~

~~=Group II~~

~~Education 7502T, 7510T, 7523T.~~

~~=Group III~~

~~Education 7005X, 7504T, 7671X, 7527T, 7684T, 7545X, 7503X, Education 7548X/English 7507X, Education 7549X/Theater 7141X, Education 7038X.~~

Students must ~~also~~ complete requirements in Spanish as follows:

~~The following courses are required:~~ Spanish 7010X; 7510X or 7520X; a course in American literature; and a course in Peninsular Spanish literature. Students must pass a written and oral comprehensive examination and complete a substantial final project, which may take the form of a thesis in Spanish, or may consist of a "teaching unit" completed under the co-direction of the Department of Modern Language and Literatures and the School of Education. Students may take the comprehensive examination beginning in the semester in which they will have earned 18 credits. The writing of the thesis or completion of the teaching unit will take place during a one credit tutorial, Spanish 7790X, to be taken as the final course of the student's program. Spanish 7790X, however, is not a required course for the degree. Information about the comprehensive examination is in the section "Academic Regulations and Procedures."

Students enroll in the appropriate education courses listed below (Option A or B) based upon teaching experience, previous course work, and the teaching certificates they hold.

Option (A): 30 credits

Students who possess Initial Certification in teaching Spanish or the equivalent must complete the following courses in Secondary Education: SEED 7502T, SEED 7510T, SEED 7548X, and SEED 7523T.

Option (B) 33-46 credits

Students who do not possess Initial Certification in teaching Spanish or the equivalent must complete, depending on previous course work some or all of the following courses in Secondary Education: SEED 7500X, SEED 7501X, SEED 7534T, SEED 7542T, SEED 7516T, SEED 7543T, SEED 7671X, SEED 7502T, SEED 7548X and SEED 7523T.

Courses in the Modern Languages and Literatures Department and the School of Education offered toward the degree must be 7000-level courses. The program of study must be approved early in the first semester by the chairperson or deputy chairperson of the Modern Languages and the Department of Secondary Education.

Rationale: The description of the program for Spanish teacher 7-12 has been changed to simplify and clarify the requirements for the different options available to students. Changes in NYSED requirements also required the change in credits.

SECTION A-V: CHANGES IN AN EXISTING COURSE

Department of Childhood Bilingual and Special Education

Changes in course description

Date of Departmental Approval: May 6, 2014

Effective date: Fall, 2015

Clearances: Puerto Rican and Latino Studies

From:

CBSE 7360X Introduction to Bilingual and Second Language Acquisition

30 hours plus conference; 3 credits

Survey of bilingual and second language acquisition theory and research as it relates to differentiating speech and language difference from disorder. Examination of research associated with the socio- and psycho-linguistic, cognitive, and sociocultural dimensions of bilingual and second language development. Data collection and analysis. Applications to educational and community settings. This course is the same as SPEC 7535X.

Material located with strike-through is to be deleted and material underlined is to be added.

Prerequisite: a course in normal language acquisition or permission of the deputy chairperson.

To:

CBSE 7360X Introduction to Bilingual and Second Language Acquisition

30 hours plus conference; 3 credits

Survey of bilingual and second language acquisition theory and research as it relates to differentiating speech and language difference from disorder. Examination of research associated with the socio- and psycho-linguistic, cognitive, and sociocultural dimensions of bilingual and second language development as well as bilingual education and multicultural perspectives. Data collection and analysis. Applications to educational and community settings. This course is the same as SPEC 7535X.

Prerequisite: a course in normal language acquisition or permission of the deputy chairperson.

Rationale:

The revised description more accurately reflects the scope of the course; the specific language components in the original course description are subsumed in the present revision and incorporate current terminology reflected in the NYS requirements for the Bilingual Extension Certificate, the code of ethics and competencies of the American Speech Language Hearing Association, and the Council of Academic Accreditation which accredits the graduate program in speech-language pathology of the Department of Speech Communication Arts and Sciences.

SECTION A-V: CHANGES IN AN EXISTING COURSE

Department of Speech Communication Arts and Sciences

Changes in course description

Date of Departmental Approval: April 1, 2014

Effective Date: Fall, 2015

Clearances: Puerto Rican and Latino Studies

From:

SPEC 7535X Introduction to Bilingual and Second Language Acquisition

30 hours plus conference; 3 credits

Survey of bilingual and second language acquisition theory and research as it relates to differentiating speech and language difference from disorder. Examination of research associated with the socio-and psycho-linguistic, cognitive, and sociocultural dimensions of bilingual and second language development. Data collection and analysis. Applications to educational and community settings. This course is the same as CBSE 7360X [EDUC798X].

Material located with strike-through is to be deleted and material underlined is to be added.

Prerequisite: a course in normal language acquisition or permission of the deputy chairperson.

To:

SPEC 7535X Introduction to Bilingual and Second Language Acquisition

30 hours plus conference; 3 credits

Survey of bilingual and second language acquisition theory and research as it relates to differentiating speech and language difference from disorder. Examination of research associated with the socio-and psycho-linguistic, cognitive, and sociocultural dimensions of bilingual and second language development as well as bilingual education and multicultural perspectives. Data collection and analysis. Applications to educational and community settings. This course is the same as CBSE 7360X [EDUC798X].

Prerequisite: a course in normal language acquisition or permission of the deputy chairperson.

Rationale:

The revised description more accurately reflects the scope of the course; the specific language components in the original course description are subsumed in the present revision and incorporate current terminology reflected in the NYS requirements for the Bilingual Extension Certificate, the code of ethics and competencies of the American Speech Language Hearing Association, and the Council of Academic Accreditation