

### QUEENS COLLEGE SECONDARY SCIENCE TEACHER EDUCATION PROGRAMS

# SCIENCE TEACHER CANDIDATE HANDBOOK

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#### Table of Contents

| Topic  | Page  |  |
|--|-------|--|
| INTRODUCTION TO THIS HANDBOOK  | 2     |  |
|  |       |  |
| PROGRAM PHILOSOPHY   | 2-3   |  |
|  |       |  |
| PROGRAM GOALS  | 3-4   |  |
| Relationship of the Program to the Education Unit's Conceptual Framework         | 4     |  |
| DEGREES AND CERTIFICATE PROGRAMS   | 5-7   |  |
| (1) Baccalaureate Certificate Programs   | 5     |  |
| Program Description  | 6     |  |
| Admission Requirements   | 6     |  |
| Program of Study   | 7     |  |
| Table 1: Secondary Science Education Minor                                       | 7     |  |
| (2) Post-Baccalaureate Advanced Certificate Program                              | 8-9   |  |
| Program Description  | 8     |  |
| Admission Requirements   | 8     |  |
| Program of Study   | 8     |  |
| Table 2: Pre-requisites for Study in Secondary Science Education                 | 8     |  |
| (3) Master of Science in Secondary Science Teacher Education                     | 9-10  |  |
| Program Description  | 9     |  |
| Admission Requirements   | 9     |  |
| Program of Study   | 9     |  |
| Table 3: Graduate Studies in Secondary Education                                 | 10    |  |
| Graduate Studies in Science  | 10    |  |
|  |       |  |
| PROGRAM POLICIES AND RULES   | 11-12 |  |
| Academic Standards and Professional Disposition                                  | 11    |  |
| Transfer Credits   | 11    |  |
| Pre-service/Student Teaching Requirements  | 11    |  |
| Field work   | 11    |  |
| Cooperating School Field Sites   | 12    |  |
| Research Requirements  | 12    |  |
| Appendix A: Sample of the Major and Minor Undergraduate Concentration Form       | 13    |  |
| Appendix B: Post -Baccalaureate Program Program of Study Form                    | 14    |  |
| Appendix C: Bulletin For Secondary Education Student Teaching                    | 15-16 |  |
| Appendix D: Queens College Requirements for NYS Certification                    |       |  |
| Appendix E: Certification Seminars at QC   | 18    |  |
| Appendix F: MS Sci Ed Secondary Science Teacher Ed Program Program of Study Form | 19    |  |

## QUEENS COLLEGE SECONDARY SCIENCE TEACHER EDUCATION PROGRAMS INTRODUCTION

#### Dear Prospective Candidate:

Welcome to the Secondary Science Teacher Education Program (SSTEP) at Queens College of the City University of New York. This prospectus contains information on our overall program philosophy, goals and other relevant information on science teacher education at Queens College. We hope that you will find it helpful in making informed decisions about your studies in science teacher education at Queens College.

Detailed information about teaching and learning resources, faculty, student community, financial aid, academic programs, regulations and recreational facilities can be found in the Queens College Undergraduate and Graduate Bulletins, which can be obtained from the following addresses or at <a href="https://www.qc.edu">www.qc.edu</a>:

#### **Undergraduate Bulletin**

Fax: 718-997-5617

Queens College Admissions Office Jefferson Hall 117 Queens College, Flushing New York, 11367 Tel: 718-997-5614 **Graduate Bulletin** 

Office of Graduate Studies and Research Jefferson Hall 105 Queens College, Flushing New York, 11367 Tel: 718-997-5200 Fax: 718-997-5193

Dr. June K. Miller and Dr. Brian Murfin Co-Program Directors for Science Education Department of Secondary Education and Youth Services (SEYS) Queens College, CUNY Powdermaker Hall 150H Flushing, New York 11367 Tel: 718-997-5156 & 718-997-5066

Fax: 718-997-5152 www.qc.edu/seys

The most current State and College mandates may not be reflected in this edition of the handbook. Please contact SEYS or an advisor regularly for updates.

#### PROGRAM PHILOSOPHY

The Secondary Science Teacher Education Program (SSTEP) subscribes to the belief that all students have the capacity to learn and should have the opportunity to do so regardless of their race, ethnicity, gender, religion, nationality, disability or sexual orientation. Furthermore, it is our belief that one of the best ways to teach and learn science is for teachers and students to engage in scientific inquiry and activities that have meaning and relevance to their lives. Scientific inquiry and activities enable students to construct their own scientific knowledge, acquire science process skills and dispositions. In addition, they provide opportunities for students to engage in reflective dialogue to validate what they have learned. We believe that the pursuit of scientific knowledge does not take place in a vacuum, but within a dynamic historical, social, cultural, economic and political context. Accordingly, science teachers must not only be armed with science content and pedagogical knowledge, but a deep understanding of the contexts in which science is practiced.

Recent reforms in science education at the state and national level such as the introduction of State and National Science Education Standards, advancements in science and technology, breakthroughs in cognitive research and development of innovative technology-based science curricula have clear implications for science teacher education. One major implication is that science teachers can not rely solely on dated textbooks or lecture and laboratory methods to teach science. They must be well educated in modern science and science education pedagogy and prepared to incorporate a wide variety of student-centered strategies to reach diverse populations of students in the 21st century.

The SSTEP educates science teacher candidates who will be able to design learning environments that will promote active, student-centered learning. Our program provides opportunities for science teacher candidates to acquire knowledge and skills in the application of technology in the science classroom. Teacher candidates in the SSTEP learn how to employ tools of research to aid all aspects of science teaching, learning and assessment. In addition our program provides opportunities and experiences that will enable science teacher candidates to analyze, interpret and apply proven science education practices and research findings in their classrooms to benefit students with different learning abilities and backgrounds. The principle of life-long learning and reflective practice is the thread that runs throughout our science teacher education program.

#### PROGRAM GOALS

The goals of SSTEP at Queens College are to graduate secondary science teachers who:

- 1. Understand how students learn science at the middle childhood and adolescence levels and are able to apply this knowledge to actual classroom practice.
- 2. Understand how factors such as race, ethnicity, gender, language status, disability and other background factors affect students' learning of science at the middle childhood and adolescence levels and the strategies for addressing them in the science classroom.

- 3. Demonstrate knowledge of classroom management principles and are able to select classroom management strategies that will nurture students' love for science learning, cooperation, respect for each others opinions and ideas and responsibility for their own learning.
- 3. Are able to plan and implement lessons that are inquiry-based or project-based, student-centered, collaborative and address the needs of diverse students.
- 4. Demonstrate understanding of the theory of science assessment and are able to design, administer, analyze and interpret different types of authentic assessments to enhance science teaching and learning.
- 5. Demonstrate knowledge of curriculum development, implementation and evaluation and apply this knowledge in decision-making regarding the selection and/or participation in innovative science programs at the middle childhood and adolescence levels.
- 6. Are able to interpret State and national science education standards and incorporate them in well-designed science lessons.
- 7. Are able to select and use scientific tools, materials and technology to enhance science teaching and learning at the middle childhood and adolescence levels.
- 8. Are able to identify and use resources outside the classroom such as museums, professional scientific organizations, scientific research laboratories, city and state parks, local scientists, parents and other places of scientific interest.
- 3. Able to use a variety of computer-based technologies to access, process, analyze and create products that will enhance science learning at the middle childhood and adolescence levels.
- 4. Demonstrate understanding of school-home relationships and involve parent/guardians in student's science learning at the middle childhood and adolescence levels.
- 3. Become lifelong science learners who to take advantage of various resources and opportunities to further their professional growth.

#### Relationship of the Program to the Education Unit's Conceptual Framework

This program is aligned with the **Core Values** of the Education Unit of "promoting *Equity*, *Excellence*, and *Ethics* in urban schools and communities." More specifically, the Education Unit is committed to preparing teachers and educational professionals who:

- Build inclusive communities that nurture and challenge all learners (*Equity*)
- Demonstrate professionalism, scholarship, efficacy, and evidence-based and reflective practice (*Excellence*); and
- · Value diversity, democracy, and social justice (*Ethics*).

Through the exploration of science as well as through the exploration of exemplary practices in curriculum design, adaptation, and instruction, this program also embeds the Standards for Reading Professionals established jointly by the National Council for the Accreditation of Teacher Education (NCATE) and the National Science Teachers Association.

#### DEGREES AND CERTIFICATE PROGRAMS

The following science teacher education programs are offered by the SSTEP at Queens College: (1) **Baccalaureate degree** - major in a traditional science with a minor in secondary science teacher education leading to initial certification in the following fields: Biology, Chemistry, Earth Science (Geology) and Physics; (2) **Post-Baccalaureate Advanced** Certificate in secondary science teacher education leading to initial certification in the following fields: Biology, Chemistry, Earth Science (Geology) and Physics; and (3) Master of Science in Secondary Science Teacher Education.

Since education is a professional program subject to requirements from the NY State Department of Education as well as the accrediting agency, The National Council on Accreditation for Teacher Education (NCATE) there are frequent changes to the teacher education programs in SEYS. Programs are updated more frequently than the college bulletin and handbook, therefore up-to-date program information available in the SEYS Department will over-ride information that may differ from that in college bulletin and or handbook.

#### (1) Baccalaureate Certificate Programs

#### **Program Description**

The undergraduate secondary science education program at Queens College is designed for undergraduate candidates majoring in biology, chemistry, earth science (or geology) or physics and wish to earn a New York State teaching license to teach science in grades 7-12 before they graduate. To qualify, undergraduate candidates must be matriculated at Queens College, maintain a minimum GPA of 2.75 and meet all graduation requirements in their major concentration. To be accepted as a secondary science education minor, candidates must file a minor declaration card for secondary education (see Appendix A, page 12). A GPA of 3.0 must be maintained in education course work to remain in good standing. To be recommended for certification by the program, the candidate must earn a letter grade of B in student teaching.

Under special circumstances, non-science majors who have undergraduate degrees in other subject areas may apply to the undergraduate secondary science education program. Contact the Director of the Secondary Science Education Program for information.

#### Admission Requirements

To be accepted to the B.A. Minor in Secondary Science Education leading to Initial Certification, a candidate must apply and be admitted to Queens College. For details about admission requirements and procedure please refer to the Queens College Undergraduate Bulletin or call 718-997-5614 or visit <a href="www.qc.edu">www.qc.edu</a> Note: Applicants with undergraduate science degrees should apply to the Advanced Certificate Program for Initial Certification.

Note: All candidates intending to student teach in the fall and spring semesters must complete a Student Teaching Clearance Form and be approved for student teaching *prior to* the Initial Clinical Experience and full semester of student teaching in the spring.

#### Program of Study

The preparation of undergraduate secondary science education candidates is divided into four phases: (1) preparation in the science content, (2) preparation in education, (3) field experience, and (4) preparation for New York State Teacher Examination. The preparation in science content is based on New York State Teacher Certification requirements, NSTA Standards for teacher education, and the Queens College major requirements. In addition to meeting the College's liberal arts and science area requirements (GenEd), candidates must complete at least 36 credits of approved science courses of which 30 credits should be in the subject for which the candidate wishes to obtain certification (see Queens College Majors Handbook available from the Advising Center, Kiely Hall 217, Tel: 718 997-5599 or <a href="https://www.qc.edu/Advising">www.qc.edu/Advising</a>). The preparation in education consists of a total of 24 credits of course work in educational foundations, education psychology, language, literacy and culture, science education methods, student teaching, and curriculum and assessment (See Table 1).

**Table 1: Secondary Science Education Minor** 

| Course Number                         | Title   | Credits | Fieldwork                       |
|---------------------------------------|---|---------|---------------------------------|
| SEYS 201                              | Historical, Social and Philosophical Foundations in Education                       | 3       | 25 hours                        |
| SEYS 221                              | Development and Learning in Education   | 3       | 25 hours                        |
| SEYS 340<br>(Pre-requisite 201)       | Language, Literacy and Culture in Education   | 3       | 25 hours                        |
| SEYS 350<br>(Pre-requisite 221, 340)  | Cognition, Technology and Instruction for<br>Diverse Learners                       | 3       | 25 hours<br>in middle<br>school |
| SEYS 362<br>(Pre or Co-requisite 350) | Teaching Science in Middle & High Schools.<br>(*** Fall ONLY ***)                   | 3       | 25 hours                        |
| SEYS 372.2<br>(Pre-requisite 350)     | High School or Middle School InitialClinExp<br>(*** Fall ONLY ***)                  | 2       | 100 hours                       |
| SEYS 372.4<br>(Pre-requisite 362)     | Student Teaching in Science for High School and/or Middle School (Spring ONLY)  And | 4       | See Pages<br>14-15              |
| SEYS 382<br>(Co-requisite 372.4)      | Curriculum and Assessment in Science<br>(*** Spring ONLY ***)                       | 3       |                                 |

The field experience provides candidates with the opportunity to apply what they have learned in their science and education courses in the classroom under the supervision of an experienced science educator. Candidates are required to spend a minimum of 100 hours of field experience in a middle and high school prior to pre-service teaching experiences. Upon completion of all major and minor requirements, candidates take three State Teacher Certification Examinations, the Liberal Arts and Science Test (LAST), the Assessment of Teaching Skills Written Test (ATS-W) and Content Specialty Test. See <a href="http://www.nystce.nesinc.com/NY viewobjs opener.asp">http://www.nystce.nesinc.com/NY viewobjs opener.asp</a> for details.

In order to be recommended for Initial New York State Teacher Certification, candidates must also take 4 seminars given through Continuing Education. (See Appendices D, E, page 16-17)

#### (2) Post-Baccalaureate Advanced Certificate Program

#### **Program Description**

The Post-Baccalaureate Advanced Certificate Program is designed for graduate students with strong science preparation who have little or no professional courses in education. It consists of pre-Masters graduate education courses that culminate in a semester of student teaching at the middle and high school levels. Upon satisfactory completion of the Program, graduates will earn a NYS Initial Certificate license to teach science in grades 7-12.

#### Admission Requirements

To be admitted to the Post-Baccalaureate Program in Secondary Science Education candidates must meet the following criteria: 1

'Hold an undergraduate degree in science with a minimum GPA of 3.0 or course work (21 + credits in a science discipline)

'Submit a statement of purpose or essay — stating why they want to pursue graduate studies in secondary science education at Queens College.

'Submit 2 letters of recommendation.

#### **Program of Study**

Candidates admitted to the Post-Baccalaureate Program in Secondary Science Education take 21 credits in secondary education: SEYS 536, 700, 552, 562, 572.2, 572.4 and 582 (see Table 2). In addition, candidates must file a *Program of Study Form*, which must be up-dated each academic year of matriculation (see Appendix B, page 13).

Table 2: Pre-requisites Study in Secondary Science Education

| Course Number         | Title  | Credits | Fieldwork |
|-----------------------|--|---------|-----------|
| SEYS 536              | <b>Educational Foundations</b>                             | 3       | 30+ hours |
| SEYS 700              | Language, Literacy and Culture in Education                | 3       | 30+ hours |
| (Pre-requisites 536 & |  | 3       | 30+ hours |
|                       | Educational Psychology                                     |         | in middle |
| SEYS 700)             |  |         | school    |
| SEYS 562              | Seminar in the Teaching of Science in Middle               | 3       | 30 hours  |
|                       | and High Schools (Fall ONLY)                               |         |           |
| SEYS 572.2            | Middle School or High School InitialClinExp<br>(Fall ONLY) | 2       | 100 hours |
| SEYS 572              | Student Teaching in Science for High School                | 4       | See Pages |
| (Co-requisite 582)    | and/ or Middle School (Spring ONLY)                        |         | 14-15     |
|                       | And  |         |           |
| SEYS 582              | Standards-Based Curriculum and Assessment                  | 3       |           |
| (Co-requisite 572)    | in Teaching Science (Spring ONLY)                          |         |           |

<sup>1</sup> See an advisor for an evaluation of courses if undergraduate major is other than biology, chemistry, geology or physics.

Please note that candidates must also take and pass all the required New York State Teacher Certification Examinations (LAST, ATS-W and CST) for Initial Certification. In addition, candidates must complete 4 seminars mandated by New York State for teachers. Upon satisfactory completion of program and state certification requirements, candidates will be recommended for New York State Initial Certification by Queens College. Candidates must have a minimum of 36 credits in the traditional sciences with a minimum of 30 credits (of 36 credits) in the certification field. Candidates must earn a minimum grade of B in all education courses to be recommended for certification.

Note: All candidates intending to student teach in the fall and spring semesters must complete a Student Teaching Clearance Form during the spring semester <u>prior to</u> the Initial Clinical Experience, have 100 field hours of observation completed, and be approved.

#### (3) Master of Science in Secondary Science Teacher Education

#### **Program Description**

The M.S. in Secondary Science Education is designed for teachers who have an Initial New York State Teaching Certificate in science. The M.S. degree consists of 30 graduate credits divided equally between advanced professional education courses and graduate courses in the traditional sciences.

#### Admission Requirements

To be admitted to the M.S. in Secondary Science Education Program candidates must meet the following criteria:

'Hold an undergraduate degree in science or science education with a minimum GPA of 3.0.

'Have a NYS Initial Certificate to teach secondary science.

'Submit a statement of purpose or essay

'Submit 2 letters of recommendation

#### Program of Study

Candidates admitted to the M.S. in Secondary Science Education Program take 15 credits of SEYS 701 + level graduate education courses and 15 credits of graduate science courses in traditional science areas. In addition, candidates must file a *Program of Study Form*, which must be up-dated each academic year of matriculation (see Appendix F, page 18).

Table 3: Graduate Studies in Secondary Education

| Course Number    | Title  | Credits |  |
|------------------|--|---------|--|
| Select one from: | Educational Foundations  | 3       |  |
| SEYS 701         | A History of Ideas in Education                                  |         |  |
| SEYS 702         | The History of Education in the United States                    |         |  |
| SEYS 703         | Philosophies of Education  |         |  |
| SEYS 704         | The Philosophy of Teaching                                       |         |  |
| SEYS 705         | School and Society   |         |  |
| SEYS 706         | Introduction to Comparative Education                            |         |  |
| SEYS 707         | Major issues in Education  |         |  |
| SEYS 720         | The Education of Immigrant's Children in the United States       |         |  |
| Select one from: | Educational Psychology   | 3       |  |
| SEYS 710         | The Psychology of Adolescents                                    |         |  |
| SEYS 717         | Learning Theory in Education                                     |         |  |
| SEYS 718         | Classroom Management   |         |  |
| SEYS 719         | Understanding Group Behavior and Cultural Differences in Schools |         |  |
| SEYS 738         | The Teaching Process   |         |  |
| SEYS 768         | Measurement and Evaluation in Education.                         |         |  |
| Select one from: | Curriculum & Methods Courses in Science Education                | 3       |  |
| SEYS 753         | Computer Applications in Science Education                       |         |  |
| SEYS 754         | Curriculum Innovations in Science Education                      |         |  |
| SEYS 767.3       | Workshop: Enhancing Enquiry in Science Instruction               |         |  |
|                  | Educational Research   |         |  |
| SEYS 777         | Research in Science Education [I] (*** Fall ONLY ***)            | 3       |  |
| SEYS 778         | Research in Science Education [II] (*** Spring ONLY ***)         | 3       |  |

#### Graduate Studies in Science

This refers to graduate course work in Biology, Chemistry, Earth Science (Geology) and/or Physics undertaken by a candidate to fulfill his/her science content requirement. Candidates in the M.S. in Secondary Science Education must satisfy science content requirements that are determined with the science advisor. Science content requirement refers to graduate science course work that a candidate undertakes in his/her field of certification. However, with written permission from his/her science advisor, a candidate may take graduate science coursework outside the certification area. Where possible content requirement course work should aim to address understanding of the unifying concepts and processes in science, scientific method and inquiry, science and its relationships to society, science and technology, and the history of science. A total of fifteen (15) graduate credits must be taken to satisfy the content requirement.

To remain in the masters program, candidates are required to maintain a minimum GPA of 3.0. To obtain a Permanent/Professional New York State Teacher Certification, candidates must successfully complete their degree and fulfill all New York State requirements for the Permanent/Professional Teaching Certificate (see <a href="www.nysed.gov">www.nysed.gov</a> for further information about Permanent/Professional Certification).

#### PROGRAM POLICIES AND RULES

All science teacher candidates are governed by the Queens College Academic Policies and Rules stated in the *Undergraduate Bulletin* and *Graduate Bulletin*. In addition, the following policies and rules apply.

#### Academic Standards and Professional Disposition

It is extremely important for a candidate admitted to a program of study in secondary science education to maintain high academic standards. This means maintaining the required GPA stipulated for the specific program. Professional disposition is used here in its broadest sense to mean a candidate's beliefs, values, behaviors and attitudes towards the teaching profession.

All SSTEP candidates are expected to demonstrate high standards in their course work and field experience. In addition, they must show a positive professional disposition at program entry, during transition and at graduation. Failure to maintain high standards and demonstrate a positive professional disposition will result in warning, probation and/or appropriate disciplinary action.

#### **Transfer Credits**

See policies and procedures for transferring credits in the Undergraduate or Graduate Bulletin which ever may apply.

#### Pre-service/Student Teaching Requirements

Science teacher candidates must have a minimum GPA of 2.75 in their major to enroll in SEYS 372/382. They must have completed the following SEYS courses: 201, 221, 340, 350, 362 and 372.2(when applicable) with a minimum GPA of 3.0. A minimum of 30 credits of the science major should be completed before 372.4.

Similarly, no post-baccalaureate candidate will be allowed to enroll in SEYS 572.4 & 582 without satisfactory completion of the following SEYS courses: 536, 700, 552, 562 & 572.2 (when applicable). In addition, post-baccalaureate candidates must fulfill content and foreign language requirements if they are to be recommended for certification. They must earn a minimum grade of B in these courses to be eligible to register for SEYS 572.4 and 582.

Upon satisfactory completion of all requirements in the major (science content area) and SEYS course work, science teacher candidates may enroll in pre-service teaching. Candidates will work under the mentorship of a cooperating teacher for a minimum of four periods per day, five days per week throughout the semester. During the semester, pre-service science teacher candidate will be observed three to five times by an experienced science education supervisor. Observations will focus on pre-service teachers' instructional planning and implementation, teaching skills, classroom management, interaction with students and teachers, overall disposition and professional growth during the placement period.

#### Field work

The field experience is structured to facilitate successful completion of targeted professional behaviors. Student teachers are expected to exhibit responsible, observable and consistent professional behavior to demonstrate their growing professional skills during the student teaching experience. Evaluation is a continuous part of the total field experience and is a cooperative process shared by the student, cooperating teacher, and supervisor.

At any time during the field experience if there is an indication of unacceptable performance, the cooperating teacher and/or the supervisor will meet with the student to discuss concerns and implement strategies for improvement. After a reasonable interval of time, if the cooperating teacher and/or supervisor still feels that the student's performance warrants further review, they may choose to contact the program director or department chair. The program director or department chair will work with the supervisor, cooperating teacher, and student to review the following options:

- Define criteria that must be met for candidate to remain in student teaching with a time-line during which the candidate must demonstrate the satisfactory meeting of stated criteria.
- Recommend that candidate withdraw from student teaching with the option of future placement with "Conditions".
  - Recommend that candidate withdraw from student teaching.

#### **Cooperating School Field Sites**

All pre-service teaching placements will be in the Borough of Queens and Nassau County and are subject to the approval of the Director of SSTEP and field placement officer. New York State required that pre-service teachers be provide with field experiences in a variety of communities and across the range of student developmental levels of the certificate, an opportunity for practicing skills for interacting with parents or caregivers, an opportunity to work in high needs schools, and an opportunity to work with each of the following students populations: socioeconomically disadvantaged students, students who are English language learners and students with disabilities (Section 52.21 of the Commissioner's Regulations, 1999).

#### Research Requirements

Candidates in the M.S. in secondary education program are required to demonstrate knowledge and competency in conducting research in science education. Upon completion of a minimum of 21 credits, candidates may enroll to take SEYS 777 - Research in Science Education [I] (offered Fall semester only) to study basic theories and methods related to conducting educational research. Candidates complete a research project or thesis in SEYS 778 - Research in Science Education [II] (offered Spring semester only).

## Appendix A Sample of the Major and Minor Undergraduate Concentration Form. Pick up 3 part form at the Office for Undergraduate Studies in Jefferson Hall.

| Queens College, Office of the Registrar   | Student ID No.  |
|---|---|
| Declaration of Undergraduate M  |   |
| Deciditation of Charles Statement 1.  |   |
| Instructions & Notes:   |   |
| 1. This form is to be used by matriculated undergraduate students or                  | only.   |
| <ol><li>Second-BA students must declare their choice of major through t</li></ol>     |   |
| Registrar (Jefferson Hall, 1st floor).  | nd obtained departmental signatures, please return this form to the Office of the |
| <ol> <li>Departments that require a copy of this form should xerox it befo</li> </ol> | ore returning it to the student.  |
| Please check: This form is   a Declaration of Major/Minor form                        | or □ a change of □ an addition of □ a drop of □ major □ minor                     |
| Last First  | Middle name or initial  |
| Phone: Day ( )  | Evening ( )   |
| Email address   |   |
|   |   |
| Please consult the major/minor/concentration code tables on the r                     | reverse side of this page before entering the following information:              |
| Declaring a Major/Concentration   | ☐ Declaring a Minor   |
| Department/Program  | Department/Program  |
| Major code Concentration code (if any)  | Minor code  |
| Dept. signature   | Dept. signature   |
| Adding a Major/Concentration  | ☐ Adding a Minor  |
| Department/Program  | Department/Program  |
| Major code Concentration code (if any)  | Minor code  |
| Dept. signature   | Dept. signature   |
| ☐ Changing a Major/Concentration  | ☐ Changing a Minor  |
| From Major code Concentration code (if any)   | From Minor code to Minor code   |
| To Major code Concentration code (if any)   | New Dept. signature   |
| New Dept. signature   |   |
| □ Dropping a Second Major/Concentration   | □ Dropping a Minor  |
| Major code Concentration code (if any)  | Minor code  |
| Dept. signature   | Dept. signature   |
|   |   |
| Student's signature   | Date  |
|   |   |
|   |   |
| FOR REGIST  | TAR'S OFFICE USE ONLY   |
|   |   |
| Received by   | Date  |
| Processed by  | Date  |
|   |   |
| Rev. 11/05  | Top copy - Registrar Bottom copy - Student  |

#### Appendix B

# QUEENS COLLEGE, THE CITY UNIVERSITY OF NEW YORK DEPARTMENT OF SECONDARY EDUCATION AND YOUTH SERVICES POWDERMAKER HALL 150, FLUSHING, NY 11367

## POST-BACCALAUREATE PROGRAM IN SECONDARY SCIENCE TEACHER EDUCATION \* PROGRAM OF STUDY FORM

| Name:        |                  | ID:   |                    |                |                |
|--------------|------------------|---|--------------------|----------------|----------------|
| Address      |                  | Town  |                    | Zip_           |                |
| Telephone:(  |                  | Email:  |                    |                |                |
| Degree(s) C  | Completed:_      |   |                    |                |                |
| Certificatio | n Area:          |   |                    |                |                |
| Graduate S   | Studies in E     | ducation (21 Credits)                                       |                    |                |                |
| Semester     | Course<br>Number | Course Title  |                    | Credits        | Grade          |
|              | 536              | <b>Educational Foundations</b>                              |                    |                |                |
|              | 700              | Language, Literacy and Culture in Educat                    | ion                |                |                |
|              | 552              | Educational Psychology                                      |                    |                |                |
| Fall         | 562              | Seminar in the Teaching of Science in Mide<br>High Schools  | dle and            |                |                |
| Fall         | 572.2            | Middle School or High School Practicum                      | l                  |                |                |
| Spg          | 572.4            | Student Teaching in Science for High Scho<br>Middle School  | ool and/ or        |                |                |
| Spg          | 582              | Standards-Based Curriculum and Assessme<br>Teaching Science | ent in             |                |                |
|              |                  |   | Total Credits:     |                | GPA:           |
| New York     | State Teach      | ner Certification Examinations & Seminars                   | Date<br>Taken      | Pass/Fail      |                |
| LAST         | (Liberal Aı      | rts & Sciences)   |                    |                |                |
| ATSW-W       | (Assessmer       | nt of Teaching Skills - Secondary)                          |                    |                |                |
| CST          |                  | Specialty - in subject area)                                |                    |                |                |
| Child        |                  | * (Also Available On-Line)                                  |                    |                |                |
|              | Violence         | * (Also Available On-Line)                                  |                    |                |                |
|              | nce Abuse        |   |                    |                |                |
| School       | Safety           |   |                    |                |                |
| * NB: Mus    | st also have     | completed 30 cr. hr. in Science Content Specialty           | plus at least 6 cr | . hr. of addit | ional science. |
| Student Sigr | nature:          | Date:   |                    |                | _              |
| Advisor:     |                  | Title:  |                    |                | _              |
| Signature:   |                  | Date:   |                    |                |                |

#### **BULLETIN FOR SECONDARY EDUCATION STUDENT TEACHING**

#### I. Background Information

Permission for student teaching is given to those students who have been approved by their Major Department for scholarship in subject matter and by the Education Department for work in the professional sequence, and who have a satisfactory medical and tuberculin test.

Since the Teacher Education Program at Queens College is officially approved by the NYS Department of Education, students who complete the program with a satisfactory grade (3.0) in student teaching meet academic requirements for recommendation for certification in NY State.

#### II. College Regulations

Initial Clinical Experience (SEYS 372.2/SEYS 572.2) Students are required to spend a minimum of 100 hours (current placement schedule is 10 weeks, 10 hrs/week at an assigned middle/junior high school).

Full Student Teaching Experience (SEYS 372.4/ SEYS 572.4) Students are required to spend <u>a minimum of 4 hours</u> (approximately 5 to 6 periods) a day in an assigned school every school day for a minimum of 15 weeks. (See "Minimum Hours Required" for detailed definition of "hours.")

Students assigned and accepted by <u>Long Island Districts</u> may follow this same (9<sup>th</sup>/upper grade) model OR may follow the typical Long Island District model of 1/2 semester in a middle school and 1/2 semester in the high school (still 5-6 periods a day).

<u>Holidays/Absences:</u> The student teacher has the same responsibilities for reporting and attending as does any employed teacher. With regard to holidays, students are to follow the calendar of the public school where they are assigned. The only excused absences are for illness and when this occurs, the student is required to notify both the cooperating teacher and college supervisor. All absences must be made up prior to the final transition week of the experience.

Minimum Hours Required: The student's total preparation must include at least 160 hours of <u>supervised instructional experience</u> (80 hrs. on each grade level). Please note that for the purposes of State Certification, school clock hours may not be calculated by school periods, unless those periods extend for 1 hour. Accordingly, since most secondary schools maintain periods ranging from 37-45 minutes, **every 3 periods** for which you are in attendance and actively participating in an approved activity, will be considered as **2.5 hours** toward the required hours.

#### I. Experiences in the Classroom

Each student is to be assigned a teacher, designated as the "Cooperating Teacher," who will take responsibility for the student teacher's day-to-day supervision. The student will teach two classes each day, observe the Cooperating Teacher teaching another class, and spend time conferencing, planning and other activities related to teaching. This supervised instructional experience is to include such activities as:

- 1) Actual classroom teaching with follow-up conferences
- 2) Working with groups of students under the teacher's direction
- 3) Working with extracurricular programs
- 4) Working with homeroom activities

#### IV. Supervision

Supervision of student teacher is the mutual responsibility of the Cooperating Teacher and the College Supervisor. The College Supervisor will do a minimum of three formal observations, observing each student in both the 9th grade class (or middle school) and in the upper grade (10th, 11th, or 12th grade) class. The College Supervisor will confer with the Cooperating Teacher to discuss the student's progress and will be available for additional conferences if special problems develop.

#### V. Role of Cooperating Teacher

A Cooperating Teacher is a reflective practitioner who can provide day-to-day mentoring to a student teacher helping him/her to put theory into practice and to reflect upon their performance. The College Supervisor supports that role by helping the student gain insight into teaching concerns of a broader nature than those of a particular school. The College Supervisor's and Cooperating Teacher's comments and evaluations may, therefore, emphasize differing phases of preparation for teaching.

#### VI. Evaluation

The SEYS Department, Queens College, New York State Department of Education, and National Accreditation Organizations, such as NCATE, which oversee our instructional programs, may ask individuals to validate important documentation concerning required certification experiences.

Consistent with this accreditation process, the Cooperating Teacher and the College Supervisor complete evaluation forms as a record of the student's progress during the semester. These forms will serve both as statistical support for accreditation and as a worksheet from which the final evaluation is made. Although every College Supervisor is responsible for consultation with the Cooperating Teacher in arriving at final evaluation for the student teacher, college regulations stipulate the College Supervisor is responsible for making the final determination.

#### IV. Tuition Waiver

The Cooperating Teacher with major responsibility for supervising a student teacher will be issued a waiver of tuition for one 3-credit course at any CUNY school. The tuition waiver may be used within the subsequent three academic sessions (including the Summer session) and only by the person to whom it is issued (CUNY policy). If a student is assigned to two distinct Cooperating Teachers on two different grade levels, each Cooperating Teacher is entitled to a waiver. If the student is assigned to the same Cooperating Teacher at two different grade levels, that Cooperating Teacher is entitled to a waiver for each grade level supervised (effective September 2006).

Teacher Certification Office Delany Hall Room G10 (718) 997 5547/45Fax (718) 997 5467

### **Queens College Requirements for NYS Certification**

#### Completion of Education Program – Bachelor's, Post-Bachelor's, Master's

#### **Completion of (4) Seminars for First certification**

Child Abuse (Also online at <u>www.childabuseworkshop.com</u> School Violence (Also online at <u>www.violenceworkshop.com</u> Substance Abuse S chool Safety

All Seminars provided by Continuing Education Register at Kiely Hall Room 111 (718) 997-5704 Copies will be collected in your last semester

Check requirements with us if you already have a NYS Teaching Certificate

#### **New York State Requirements** - Completion of (3) Exams

LAST (Liberal Arts & Sciences)

ATS-W (Assessment of Teaching Skills - Elementary or Secondary)

CST (Content Specialty – in subject area)

**Register at <u>www.nystce.nesinc.com</u>** (Framework/Sample questions on website) Test Prep for LAST, ATS also available at Kiely Hall - Room 111 - 718 997-5704

#### Fingerprint records must be sent to Albany

Call 518 473-2998 for packet Monday, Wednesday or Friday
If you were already fingerprinted by a NYS education dept, you may confirm clearance of
your records by calling 518 473-2998. If you were fingerprinted by NYCDOE, you may call
718 935-2666/7 to request transfer of records to Albany

New York City Applicants should register at www.teachnyc.net

Dept of Education websites – <u>insideschools.org</u> or <u>www.schoolspring.com</u>

### **Queens College Continuing Education**

#### **ALL EDUCATION STUDENTS**

The following seminars are available as 3 hours seminars given on one day each at Queens College for a fee of \$50 (approx).

**Alcohol and Drug Abuse** 

**Child Abuse** 

School Violence

**School Safety** 

In addition, Test Prep mini- courses are also available at Queens College for both the LAST & ATS Exams.

Contact this office for further information.

#### Other Information:

Finger Print Packets: (518)473-2998 Open Monday, Wednesday, and Friday New York State Teacher Certification Exams: <a href="www.nystce.nesinc.com">www.nystce.nesinc.com</a> Student Education Department: (518)474-3901

www.nysed.gov or www.highered.nysed.gov/tcert/

For more information, call (718) 997-5704

Please register in KIELY HALL ROOM 111

#### Appendix F

# QUEENS COLLEGE, THE CITY UNIVERSITY OF NEW YORK DEPARTMENT OF SECONDARY EDUCATION AND YOUTH SERVICES POWDERMAKER HALL 150, FLUSHING, NY 11367

## MASTER OF SCIENCE IN SECONDARY SCIENCE TEACHER EDUCATION PROGRAM OF STUDY FORM

| Name:         |              | ID:  |              |           |
|---------------|--------------|--|--------------|-----------|
| Address       |              | Town   | Zip_         |           |
| Telephone:(_  |              | Email:   |              |           |
| Degree(s) Co  | ompleted:    |  |              |           |
| Certification | Area(s):     |  |              |           |
|               | Fill iı      | n Graduate Education Courses you've completed (15 Credits  | max))        |           |
| Semester      | Course #     | Course Title   | Credits      | Gr Earned |
|               |              |  |              |           |
|               |              |  |              |           |
|               |              |  |              |           |
|               |              |  |              |           |
|               | <u> </u>     |  |              |           |
|               | Fill in Grad | uate Science Content courses you've completed which satisf | v the scienc | e core    |
|               |              | requirements (15 Credits max from 500-700 level course     | -            |           |
| Semester      | Course #     | Course Title   | Credits      | Gr Farned |
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| Candidate'    | s Signature  | Date   |              |           |
| Advisor       | S Signature_ | Title  |              |           |
| Advisor's S   | Sionature    | Date   |              |           |
| AUVISOI S     | oignaune     | Date   |              |           |
|               |              |  |              |           |