

# GRADUATE BULLETIN UPDATE

September 2010

Dear Queens College Graduate Student,

This supplement to the online Queens College Graduate Bulletin 2006–2009 contains changes to degree requirements, new program descriptions, and new and revised courses that have recently been passed by the Queens College Academic Senate and approved by the CUNY Board of Trustees. All new requirements are in effect for students entering the college in Fall 2010, unless otherwise noted. This supplement also contains the college's new tuition rates, which went into effect in September 2009.

Items in this supplement are organized alphabetically by department. Items are preceded by italicized statements that describe the nature of the change or addition, and direct the reader to the text in the current Bulletin that is being updated.

As items are added to this supplement, this page will list the new additions. The next full Graduate Bulletin will be published next year. Questions should be directed to the Graduate Advisor in the appropriate academic department, or to the Office of Graduate Studies (718-997-5190; [carol.capalone@qc.cuny.edu](mailto:carol.capalone@qc.cuny.edu)).

With best wishes for your academic success,

James Stellar, Provost

This update is being sent to inform you of two very important changes to the New York State TAP program. These changes were enacted as part of the recently passed 2010 New York State budget. The first change involves a decrease in the dollar amount of TAP awards students will receive. Every TAP semester award is reduced by \$37.50. Graduate students are no longer eligible for TAP. Married students without dependents will have their TAP awards reduced even further. HESC has emailed this information to all TAP awardees who have email addresses.

The second main change to the program involves the academic standards needed to continue receiving TAP. The standards are now much stricter, requiring some students who received their first TAP payment in 2007 or later, to accumulate a higher number of credits toward their degree and maintain a higher grade-point average to receive TAP. It is very important that you understand this so that you know how many credits you must enroll for and must pass each semester in order to keep your eligibility for the TAP program.

We have detailed information on the Queens College Financial Aid's website: [www.qc.cuny.edu/fao](http://www.qc.cuny.edu/fao) including charts of the new academic standards.

Note that the information at the link provided above replaces the information in the current Bulletin that appears under the heading "Paying for College."

## **COURSES THAT HAVE BEEN ADDED SINCE THE PUBLICATION OF THE LAST BULLETIN:**

### **ACCOUNTING**

#### **ACCT 707. Contemporary Issues in**

**Management Accounting.** 3 hr.; 3 cr. Prereq.: Open to students who have completed an undergraduate degree in accounting, or who have completed the graduate core coursework for the MS in Accounting, or the MS in Risk Management Accounting/CPA concentration, or permission of the department. The purpose of this course is to build upon the basic concepts of management accounting introduced in ACCT 305 and 306. The most current theories and practices that comprise ACCT 707 have been developed over the past decade in response to rapid changes in the external and internal environment that business organizations face. ACCT 707 will examine in depth the most recent management accounting literature with respect to: (1) information that managers need for decision-making, and (2) the role of the management accountant in the accumulation, analysis, and use of that information.

#### **Risk Management (RM) 707. Financial**

**Statement Analysis.** 3 hr.; 3 cr. Prereq.: RM 702, Accounting for Risk Management or ACCT 201, Intermediate Accounting I and ACCT 202, Intermediate Accounting II. Analyses are made of financial statements of public companies from the perspective of investors, management, creditors, accountants and auditors. Financial statements and related disclosures will be analyzed to gain a perspective on a company's health. Business valuation models and techniques to develop forecasts and pro forma results will be discussed and illustrated. Ratio analysis and key performance indicators will be emphasized with a case study approach to this subject. Credit will not be given if ACCT 350 or BUS 250 has been taken.

### **COMPUTER SCIENCE**

#### **CSCI 765. Computational Finance.** 3 hr.; 3 cr.

Prereq.: CSCI 700 or the equivalent of CSCI 314 and ECON 249 for students in the Risk Management Program. Valuation of financial derivatives is presented as a family of algorithmic computations, centering on understanding and implementation of about fifty selected algorithms. Concepts include time value of money; market risk and credit risk; arbitrage; forwards and futures on stocks, currencies, interest rates, indices, commodities; collateral, marking-to-market, margining, netting; fundamentals of capital asset pricing; yield curves, bond prices, forward rates; swaps; options, claim synthesis; binomial trees; Weiner processes, Itô's Lemma, Black-Scholes-Merton model for options; Greeks; implied volatility and term structure; credit risk, estimates of credit default probabilities, credit default

spreads and default intensities; introduction to some path dependent and exotic derivatives.

### **ECONOMICS**

#### **Risk Management (RM) 701. Risk Management.** 3

hr.; 3 cr. Prereq.: Completion of graduate core curriculum for the MS in Risk Management or permission of program director. The course provides a broad overview of why managing risk is important to organizations and of the risk management function. The course utilizes the RM framework to identify sources of value and stakeholder objectives, to categorize events that pose risk, to determine the organization's appetite for risk and to determine levels of risk retention. The course covers various risk types and examines how each is quantified, transferred, or retained and priced-for. The course is case-study and group-study intensive.

#### **Risk Management (RM) 702. Accounting for Risk Management.** 3 hr.; 3 cr. Prereq. or coreq.: RM 701, Risk

Management. This course is intended to provide graduate level exposure to accounting theory for students enrolled in the MS in Risk Management program. The course will cover essentials of the conceptual framework of accounting and will focus on issues affecting recognition and measurement of the economic events that affect financial statements in particular, those that affect the firm's risk profile and risk transfer. The course will not be open to MS in Accounting students. Credit will not be given for this course if ACCT 350 or BUS 250 has already been taken and students will be required to take an additional elective from the RM program offerings.

#### **Risk Management (RM) 703. Analysis of**

**Investment and Market Risk.** 3 hr.; 3 cr. Prereq.: ECON 602, Introduction to Corporate Finance and Money and Banking or BUS 241, Corporate Finance; ECON 649, Statistics as Applied to Economics and Business; or equivalent as approved by the program director. The course will focus on the application of financial theory to the issues and problems of investment management. Topics will include bond valuation and strategies, stock valuation and strategies, portfolio optimization and asset allocation, the CAPM, and their implications for investment management. The course will first examine the valuation and selection of various investment instruments, then move on to cover portfolio optimization issues and risk management.

#### **Risk Management (RM) 704. Risk Measurement.** 3

hr.; 3 cr. Prereq. or coreq.: RM 701, Risk Management. This course provides an in-depth review of the fundamentals of probability and statistics, followed by the measurement of various risk types. The course examines instances of market

failure, the role of collateralization requirements, the impact of term, time horizon, and covariance, and extreme value theory. The course also covers probabilistic and stochastic risk modeling, calculations of value-at-risk, stress testing, and other risk metrics, and the limitations of each of these measures.

**Risk Management (RM) 705. Risk Transfer to Financial Markets.** 3 hr.; 3 cr. Prereq. or coreq.: RM 701, Introduction to Risk Management; RM 703 or BUS 350, Investment Analysis is recommended. The primary emphasis of this course is on the structure, pricing, hedging, and strategies of futures and options contracts and their applications in a risk management context. The economic role of options and futures markets is examined. Specific topics include: determinants of forward and futures prices, option valuation using binominal trees and Monte Carlo simulation, implied binominal trees, relation between puts and calls, uses of options in investment strategies, hedging techniques, exotic options, applications to corporate securities and other financial instruments.

**Risk Management (RM) 706. Risk Transfer to Insurance Markets.** 3 hr.; 3 cr. Prereq. or coreq.: Undergraduate degree in accounting or completion of Graduate Core Curriculum: ECON 601, Introduction to Micro- and Macro-Economics; ECON 602, Introduction to Corporate Finance and Money and Banking; ECON 649, Statistics as Applied to Economics and Business; and ACCT 600, Financial Theory and Accounting Practice, Part I, or permission of program director. RM 701, Introduction to Risk Management is recommended. This course examines risk transfer to insurance markets. Topics covered will include the variety of ways that risk transfer can occur including quota share and excess of loss agreements, catastrophe bonds, captives, reciprocals, segregated cells, and their structuring, such as retentions, limits, corridors, collateralization, reinstatement, and commutation provisions, and structured/financial insurance. Insurance products will be evaluated for their efficiency in risk transfer. How effective insurance markets are relative to capital markets will be evaluated in terms of terms and conditions, pricing, and basis risk.

**Risk Management (RM) 708. Financial Econometrics.** 3 hr.; 3 cr. Prereq.: ECON 721 or equivalent; and RM 704, or MATH 241, or permission of the instructor. The course covers modern statistical and econometric techniques necessary for both professional and academic quantitative research in finance. Particular emphasis will be placed on measuring and analyzing the risk of holding and trading financial assets.

**Risk Management (RM) 709. Portfolio Management.** 3 hr.; 3 cr. Prereq. or coreq.: RM 703, Analysis of Investment and Market Risks, or BUS 350, Investment Analysis. Individual courses may be waived for those students who have taken equivalent courses as part of their undergraduate program. This course provides a detailed examination of portfolio management. Topics include definition and measurement of risk market efficiency, testing for inefficiencies, components and determinants of trading costs, mechanics of creating and managing a portfolio, and investment philosophies. The mechanics of creating and managing a portfolio are illustrated for both bonds and equities.

**Risk Management (RM) 710. Fixed Income Instruments.** 3 hr.; 3 cr. Prereq.: ECON 602, Introduction to Corporate Finance and Money and Banking, or BUS 241, Corporate Finance. Recommended: MATH 131, Calculus with Applications to the Social Sciences. The course exposes students to an in-depth analysis of the concepts encountered in the market for fixed income securities. The student will develop tools to price bond and money market instruments, understand the term structure of interest rates, analyze the Treasury yield curve, and evaluate credit yield spreads. The course illustrates hedging and other trading and portfolio strategies, and explores fixed income derivative instruments.

**Risk Management (RM) 790. Applied Dynamic Financial Analysis.** 3 hr.; 3 cr. Prereq.: RM 701, 702, 703 or 704, 705, and 706. The course may be taken concurrently with RM 703 or 704 with permission of the program director. This is the capstone course for the Risk Management program, in which students will run a dynamic financial analysis for a corporation, modeling its financial asset and liability exposures, and estimating future cash flow, time-varying exposures, and covariance across exposures. Students will build models with applications either to pension funds, life insurance, non-life insurance, banking, and treasury/funding operations.

**Risk Management (RM) 791. Applied Financial Dynamic Analysis Model Building.** 2 hours plus conf.; 3 cr. Prereq.: RM 790, Applied Dynamic Financial Analysis. In this course, students will contribute to the building and development of Dynamic Financial Analysis (DFA) models tailored to a financial institution, non-financial corporation, or pension fund. The DFA model is an asset-liability management model in which an organization's asset and liability values are forecasted over time and simulated by allowing economic, financial, and other business drivers of the cash flows to vary stochastically, in a dynamic and simultaneous fashion, using Monte Carlo and other

simulation methods. The course is open to students only by permission of the program director.

**Risk Management (RM) 792. Special Topics in Risk Management.** 3 hr.; 3 cr. Prereq. or coreq.: Will vary with the particular topic, or with permission of the program director. This course will be a seminar in enterprise risk management covering a special topic as it relates to RM, such as governance, behavioral finance, or corporate strategy.

## HISTORY

**HIST 781. Studies in American Social, Intellectual, and Cultural History to 1870.** 2 hr. plus conf.; 3 cr. Readings and discussion of selected topics in the development of American society and changing American attitudes and opinions.

## LIBRARY SCIENCE

**LBSCI 778. Informational Literacy Instructions for Adults.** 3 hr.; 3 cr. Prereq.: LBSCI 700, 702; coreq.: LBSCI 701, 702. This course will provide students with both a theoretical and practical foundation for functioning as an instructor within a library or information center. It will cover both the basic knowledge and skills necessary for designing, implementing, delivering, and evaluating instructional programs in all types of library settings, with a focus on adult patrons.

## COURSE DESCRIPTIONS THAT HAVE BEEN UPDATED SINCE THE PUBLICATION OF THE LAST BULLETIN:

### BIOLOGY

#### *From:*

**BIOL 700. Genetics.** 4 hr.; 4 cr. Prereq.: BIOL 710 or equivalent. Structure and function of genes and genomes. Topics will include genetic model organisms and recombinant DNA technology.

#### *To:*

**BIOL 700. Genetics.** 4 hr.; 4 cr. Prereq.: Undergraduate degree in biology or biochemistry and an undergraduate course in genetics, or permission of the instructor. Structure and function of genes and genomes. Topics will include genetic model organisms and recombinant DNA technology.

#### *From:*

**BIOL 710. Molecular Biology.** 4 hr.; 4 cr.

#### *To:*

**BIOL 710. Molecular Biology.** 5 hr.; 5 cr.

#### *From:*

**BIOL 714. Cell Biology.** 4 lec. hr.; 4 cr. Prereq.: Undergraduate degree in biology or biochemistry to include a one-year course in organic chemistry, or permission of the instructor.

#### *To:*

**BIOL 714. Cell Biology.** 4 lec. hr.; 4 cr. Prereq.: Either BIOL 700, or 710, or permission of the instructor.

#### *From:*

**BIOL 750. Developmental Biology.** 3 hr.; 3 cr. Prereq.: BIOL 714 or equivalent; a graduate course in biology or genetics is recommended. Cellular and molecular mechanisms underlying the development of vertebrates, invertebrates, and plants. Embryogenesis, axis specification, organogenesis, and cell differentiation.

#### *To:*

**BIOL 750. Developmental Biology.** 4 hr.; 4 cr. Prereq.: Either BIOL 700, or 710, or permission of instructor. Cellular and molecular mechanisms underlying axis specification, organogenesis, and cell differentiation.

### PSYCHOLOGY

#### *From:*

**PSYCH 731. Stimulus Control of Behavior.** 2 lec., 4 lab hr.; 4 cr. Emphasis is upon the acquisition and maintenance of discriminative behavior. Topics include discrimination training, generalization, perception, signal detection, and psycho-physics.†

**To:**

**PSYCH 731. Stimulus Control of Behavior.** 2 lec., 4 lab. hr.; 4 cr. Prereq.: A graduate course in basic learning processes, such as PSYCH 730. Emphasis is on the acquisition and maintenance of discriminative behavior. Topics include discrimination training, generalization, perception, signal detection, and psycho-physics.†

**From:**

**PSYCH 732. Motivation and Reinforcement.** 2 lec., 4 lab. hr.; 4 cr. The role of motivation in behavior theory, and the experimental manipulation of reinforcement variables as these interact with motivational variables.†

**To:**

**PSYCH 732. Motivation and Reinforcement.** 2 lec., 4 lab. hr.; 4 cr. Prereq.: A graduate course in basic learning processes, such as PSYCH 730 or equivalent. The role of motivation in behavior theory, and the experimental manipulation of reinforcement variables as these interact with motivational variables. Topics include response strength, contingency, motivation and establishing operations, schedules of reinforcement, choice, and conditioned reinforcement.†

**SECONDARY EDUCATION & YOUTH SERVICES**

**From:**

**SEYS 570.2–574.2. Practicum in Middle/Junior High School.** 50 hr. at a middle/junior high school; 2 cr. Prereq.: SEYS 536, 700; coreq.: SEYS 552, 560–564. Open only to students who are matriculated in the secondary education program. This practicum is designed to provide students with school-based teaching experiences that prepare them to effectively teach small groups of students at the middle/junior high school level. Students are placed at a middle/junior high school setting under the guidance of a school-based teacher and a college-based supervisor. Fall

- 570.2. Practicum in English for Middle/Junior High School.
- 571.2. Practicum in Mathematics for Middle/Junior High School.
- 572.2. Practicum in Science for Middle/ Junior High School.
- 573.2. Practicum in Social Studies for Middle/Junior High School.
- 574.2. Practicum in Foreign Language for Middle/Junior High School.

**To:**

**SEYS 570.2–574.2 Initial Clinical Experience in \_\_\_\_\_ for Secondary School.** 100 hr. at a secondary school; 2 cr. Prereq.: SEYS 536, 700; coreq.: SEYS 552; Prereq. or coreq.: SEYS 560–564. Open only to students

who are matriculated in the secondary education program. This initial clinical experience is designed to provide students with school-based classroom experiences that prepare them to effectively student teach at the secondary school level. Students are placed at a secondary school setting under the guidance of a school-based teacher and a college-based supervisor. Fall

- 570.2. Initial Clinical Experience in English for Secondary School.
- 571.2. Initial Clinical Experience in Mathematics for Secondary School.
- 572.2. Initial Clinical Experience in Science for Secondary School.
- 573.2. Initial Clinical Experience in Social Studies for Secondary School.
- 574.2. Initial Clinical Experience in Foreign Language for Secondary School.

**From:**

**SEYS 570b–5704b. Student Teaching in \_\_\_\_\_ for Secondary School.** 280 hr. of daily participation or its equivalent for 15 weeks at a secondary school; 4 cr. Prereq.: Permission of the department; a minimum grade of *B* in SEYS 560–564 and SEYS 570.2–574.2 and a *B* average in SEYS courses. School-based teaching experiences are provided that prepare student teachers to effectively teach students at the secondary school levels. Under the guidance of a cooperating teacher and a college-based supervisor students are expected to teach a minimum of one class. Students must earn a minimum grade of *B* to be recommended for NYS initial certification. Students may be required to attend a weekly or bi-weekly seminar at the college and/or take SEYS 580–583 as a corequisite. See program advisor.

**To:**

**SEYS 570.4–574.4 Student Teaching in \_\_\_\_\_ for Secondary School.** 4 cr., 240 hr. of daily participation or its equivalent for 15 weeks at a secondary school. Prereq.: Permission of the department; a minimum grade of *B* in SEYS 560–564 and SEYS 570.2–574.2 and a 3.0 GPA in SEYS courses. School-based teaching experiences are provided that prepare student teachers to effectively teach students at the secondary school levels. Under the guidance of a cooperating teacher and a college-based supervisor students are expected to teach a minimum of one class. Students must earn a minimum grade of *B* to be recommended for NYS initial certification. Students may be required to attend a weekly or bi-weekly seminar at the college and or take SEYS 580–583 as a corequisite. See program advisor.

## URBAN STUDIES

### **From:**

**URBST 730. The Urban Economy: Growth and Problems.** 2 hr. plus conf.; 3 cr.††

### **To:**

**URBST 730. The Urban Economy: Growth and Problems.** 3 hr.; 3 cr. This course examines the multiple, dynamic industry sectors that compromise an urban economy, along with trends in economic growth and related consequences for employment conditions and patterns of inequality. We will study emergent sectors based on immigrant entrepreneurship as well as declining sectors such as industrial manufacturing. By focusing on New York City, the class examines the economic restructurings of this current period of globalization, and how these changes in the urban economy create opportunities for immigrants, along with hardships for native-born minorities.††

### **From:**

**URBST 749. Urban Education.** 2 hr. plus conf.; 3 cr. May be repeated for credit if topic changes.††

### **To:**

**URBST 749. Urban Education.** 2 hr. plus conf.; 3 cr. This course explores the structure and history of education in the United States, especially in urban areas. It examines such questions as racial, ethnic, and class segregation, financing, school restructuring, school choice, high-stakes accountability policies, the role of socioeconomic class, the education of multicultural populations, and teaching as a profession within the city. Students will gain an understanding of the cultural, economic, sociological, historical, and political factors that impact teaching and learning in urban schools and the efforts of educators and policymakers to improve teaching and learning within that environment.††

## **NEW PROGRAM THAT HAS BEEN APPROVED SINCE THE PUBLICATION OF THE LAST BULLETIN:**

### **RISK MANAGEMENT**

This is a new series of MS programs that began accepting students in the Fall 2010 semester. There are three tracks in Risk Management: Accounting/CPA, Finance/CFA, and DFA Modeling. All three of these tracks have been approved by the CUNY Board of Trustees. The NYS Board of Higher Education has approved the Finance/CFA and DFA Modeling tracks; the Accounting/CPA track is still under review.

## FACULTY

This interdisciplinary program draws established full-time faculty from the Economics, Accounting & Information Systems, and Computer Science departments.

The coordinator of this program to whom all questions can be addressed is: Dr. Diane Coogan-Pushner (diane.cooganpushner@qc.cuny.edu).

## ADMISSIONS REQUIREMENTS

The faculty advisory committee and the program director will make admissions decisions. Admission will be for the fall semester only. Students must specify the area of concentration when applying to the program. The following admissions requirements are relevant to all students applying to the program:

1. An undergraduate bachelor's degree from an accredited college or university.
2. All students should have earned a minimum GPA of at least 3.0 in their undergraduate program in order to apply. If more applications are received than can be accommodated in the program, the actual threshold for admission may be higher.
3. GMAT (may be waived by permission of the program director).
4. For international students, a minimum TOEFL score of 600 (paper-based) or 250 (computer-based) or 100 (Internet-based). This may be waived for a student holding a degree from a U.S. college or university with permission of the director.
5. No more than 12 credits may be transferred. Evaluation of the transferred credits will be by the faculty advisory committee. Although students with any undergraduate background may apply, students with a finance or accounting background (or computer science for the DFA Modeling concentration) will be able to complete the program faster. Accounting majors or students graduating in any of the majors leading to the Bachelor of Business Administration at Queens College with a GPA of 3.0 or above may apply for, and on acceptance, complete the Finance/CFA concentration in 30 credits. Students with other backgrounds such as mathematics, economics, or computer science, or other majors may need to complete additional graduate foundation courses for any of these concentrations, up to a total of 15 additional credits for the Finance/CFA and DFA Modeling concentrations.

Students with a minimum 3.0 GPA in an undergraduate major in accounting or any of the BBA majors at Queens College may apply for, and on acceptance, complete the Accounting/CPA concentration in 30 credits. Students without an accounting background wishing to enter the Accounting/CPA concentration will need to complete graduate foundation coursework in addition to the 15 credits described above, to a maximum of an additional 26 credits.

Students who have taken the following undergraduate courses will not need to take the basic graduate foundation courses: introductory micro- and macro-economics (ECON 101 and 102 or equivalent), introductory corporate finance (BUS 241 or equivalent), money and banking (ECON 215 or equivalent), statistics (ECON 249 or equivalent) and introductory accounting (ACCT 101 and 102 or equivalent). Having taken the following courses will exempt students from the additional graduate foundation courses required for the Accounting/CPA concentration: intermediate accounting (ACCT 201 and 202 or equivalent), cost accounting (ACCT 305 or equivalent), quantitative techniques in planning and control (ACCT 306 or equivalent), advanced accounting (ACCT 311 or equivalent), auditing I and II (ACCT 321 and 322 or equivalent), business law I and II (ACCT 261 and 362 or equivalent), federal and NY state taxes on income (ACCT 367 or equivalent), and computers for business (CSCI 012, or 018, or equivalent).

## **CURRICULUM**

The MS in Risk Management takes between 30 and 71 credits to complete, depending on undergraduate background. As described above, students with appropriate prerequisites taken at the undergraduate level should be able to complete the program in 30 credits, or three to four semesters. Students must choose one of three concentrations: Accounting/CPA, Finance/CFA, or DFA Modeling. All students must take an overview course which will give them a broad view of risk management, and must also take three additional courses, accounting for risk, risk transfer to financial markets, and risk transfer to insurance markets (unless they have taken an equivalent course in their undergraduate program). In addition, all students must take a team-based, hands-on capstone course after all required courses are taken and 21 credits have been taken in the program. Students will have additional required courses specific to their chosen concentration. If equivalent courses have been taken as an undergraduate, a set of additional electives are recommended. Course descriptions for all required courses are found in Appendix C, while syllabi for new courses are in Appendix D. Program requirements are summarized in Appendix E.

## **Areas of Concentration**

### **ACCOUNTING/CPA CONCENTRATION**

The concentration is designed to give students a solid risk management foundation, including basic risk management skills in finance, math, and modeling plus training in enterprise risk management. The four graduate-level accounting electives will further enhance the student's accounting expertise as it relates to tax, audit, communications, or business law. The curriculum satisfies NY state's 150-hour education requirement for the CPA and provides students with a differentiated skill set to complement their core professional skills.

### **FINANCE/CFA CONCENTRATION**

The concentration is designed to give students a solid risk management foundation, including basic risk management skills in finance, math, and modeling, plus training in enterprise risk management. The four graduate-level finance electives will further enhance the student's finance and financial modeling expertise in the areas of econometrics, asset liability management, and capital and insurance markets. The curriculum covers a vast majority of the CFA Institute's body of knowledge and should help students be well prepared to study for and pass the three exams required for the CFA Charterholder professional designation. The curriculum also covers a vast majority of the Society of Actuaries and Casualty Actuarial Society's body of knowledge and should help students be well prepared to study for and pass the many exams required for associate or full fellowship in these two societies.

### **DFA MODELING CONCENTRATION**

The concentration is designed to give students a solid risk management foundation, including basic risk management skills in finance, math, and modeling, plus training in enterprise risk management. The four graduate-level finance electives will further enhance the student's expertise in modeling and programming for asset liability management, financial instruments, and econometric analysis of financial variables and capital markets. The curriculum is designed for students with computer science backgrounds but covers a vast majority of the CFA Institute's body of knowledge as well as that of the Society of Actuaries and the Casualty Actuarial Society, so it should help students be well prepared to study for and pass the various exams required for professional designations from the three organizations should they wish to pursue these career paths.

Sample program schedules for each concentration are found in Appendix F for full- and part-time students, and

for those who must take the foundation courses. Students must maintain a 3.0 GPA in the program. At the end of each semester, any student with less than a 3.0 will receive a warning and must bring the average back up to a 3.0 or be dismissed from the program.

## **A. GRADUATE FOUNDATION COURSES**

Students who enter the program without the appropriate prerequisite courses (listed above under Admissions) must take some or all of the graduate foundation courses before taking the required risk management courses.

### **I. BASIC FOUNDATION COURSES**

The following courses (total of 15 credits) must be taken by all students entering the MS in Risk Management, except as noted below under Admissions. If required, basic graduate foundation coursework must be taken prior to enrolling in RM 701, 702, 704, or 705. Some electives may be taken while graduate foundation coursework is being completed, if all prerequisites have been met. With permission of the director, individual courses may be waived for those students who have taken equivalent courses as part of their undergraduate program. Students who have completed an undergraduate degree in accounting or any of the BBA majors at Queens College will be exempt from these

#### **Graduate Foundation Courses.**

##### **ECON 601. Introduction to Micro and Macro**

**Economics.** (Fall) (4 cr.) Students who have taken ECON 101 and 102 or equivalent are exempt.

##### **ECON 602. Introduction to Corporate Finance and**

**Money and Banking.** (Spring) (4 cr.) Prereq.: ECON 601, Introduction to Micro- and Macro-Economics, or ECON 101 and 102 or equivalent. Students who have taken ECON 215 and BUS 241 or equivalent are exempt.

##### **ECON 649. Statistics as Applied to Economics and**

**Business.** (Spring) (3 cr.) Students who have taken ECON 249 or equivalent are exempt.

##### **ACCT 600. Financial Accounting Theory and**

**Practice, Part I.** (Fall) (4 cr.) Students who have taken ACCT 101 and 102 or equivalent are exempt.

## **2. ADDITIONAL GRADUATE FOUNDATION COURSES FOR ACCOUNTING/CPA CONCENTRATION**

Students wishing to enter the Accounting/CPA concentration must complete the following additional foundation courses. Students with an undergraduate degree in accounting or who have taken the appropriate undergraduate courses will be exempt from these additional graduate foundation courses.

##### **ACCT 601. Financial Accounting Theory and**

**Practice, Part 2.** (4 cr.) (Spring) Students who have taken ACCT 201 and 202 or equivalent are exempt.

##### **ACCT 602. Financial Accounting Theory and**

**Practice, Part 3.** (3 cr.) (Fall) Students who have taken ACCT 311 or equivalent are exempt.

##### **ACCT 603. Concepts of Managerial Accounting.**

(Spring) (4 cr.) Students who have taken ACCT 305 and 306 or equivalent are exempt.

##### **ACCT 604. Concepts of Auditing and Computer**

**Auditing.** (4 cr.) Students who have taken ACCT 321 and 322 or equivalent are exempt.

##### **ACCT 605. Introduction to Business Law.** (4 cr.)

Students who have taken ACCT 261 and 362 or equivalent are exempt.

##### **ACCT 606. Federal and New York State Taxes on**

**Income.** (4 cr.) Students who have taken ACCT 367 or equivalent are exempt.

##### **CSCI 688. Advanced Productivity Tools for**

**Business.** (3 cr.) Students who have taken CSCI 012 or 018 are exempt.

#### **Total of 26 credits.**

Students who have successfully completed the appropriate graduate foundation courses for their concentration as described above (i.e., with a minimum GPA of 3.0) must then complete at least 30 additional graduate credits with a minimum overall GPA of 3.0. Students whose GPA in the program falls below 3.0 will be placed on probation, and will not be permitted to register if the GPA is not brought back up after one semester. Appeals may be made to the Risk Management Faculty Advisory Committee (see above). Only one course may be retaken for grade replacement.

## **B. REQUIRED COURSES IN RISK MANAGEMENT**

The following courses are required of all MS in Risk Management students. All courses are 3 credits.

**RM 701. Risk Management.** (Fall) Prereq.: Completion of basic graduate foundation coursework.

**RM 702. Accounting for Risk Management.** (Fall)

Prereq. or coreq.: RM 701, Risk Management (Fall).

Students in the Accounting/CPA Concentration should not take RM 702 and must take an additional elective in their concentration.

**RM 704. Risk Measurement.** (Fall) Prereq. or coreq.

RM 701, Risk Management (Fall).

**RM 705. Risk Transfer to Financial Markets.** (Spring)

Prereq.: RM 701, Risk Management (Fall), RM 703, Investment Analysis, or RM 704, Risk Measurement (Fall), or BUS 350, Investment Analysis. Students who

have taken BUS 353, Options and Futures Markets, will not receive credit for RM 705 and must choose an additional elective in their concentration.

**RM 706. Risk Transfer to Insurance Markets.** (Fall, Spring) Prereq.: Undergraduate degree in accounting or finance or completion of basic graduate foundation coursework or equivalent.

**RM 790. Applied Dynamic Financial Analysis.** (capstone) (Fall) Prereq.: RM 701, Risk Management (Fall), RM 702, Accounting for Risk Management (Fall) (Accounting/CPA concentrators are exempt), RM 704, Risk Measurement (Fall), RM 705, Risk Transfer to Financial Markets (Spring), RM 706, Risk Transfer to Insurance Markets (Fall, Spring), and 21 credits in RM program.

**Note:** For students in the Accounting/CPA concentration, RM 704, Risk Measurement (Fall), satisfies the New York state requirement for a quantitative measurements course, RM 705, Risk Transfer to Financial Markets (Spring), satisfies the New York state requirement for a finance course, and RM 706, Risk Transfer to Insurance Markets (Fall, Spring), satisfies the New York state requirement for an economic analysis course.

In addition to the required courses, students must take the additional courses listed below for their chosen area of concentration.

### **C. ACCOUNTING/CPA CONCENTRATION**

The Accounting/CPA concentration can be completed in between 30 and 71 credits. Students with an undergraduate background in accounting or the prerequisites listed above under “Admissions” can complete the program in 30 credits. In addition to the courses required of all RM students, Accounting/CPA students must take the five courses below. All are offered every term in the evenings. If an equivalent course has been taken at the undergraduate level, additional suggested courses are listed below.

#### **I. Required**

**ACCT 712. Advanced Financial Accounting Theory.**

(Fall, Spring) Open to students who have completed an undergraduate degree in accounting or who have completed the graduate foundation coursework for the MS in Accounting or for the MS in Risk Management Accounting/CPA Concentration, or permission of the department.

**ACCT 723. Advanced Auditing Theory and Practice.** (Fall, Spring) Open to students who have completed an undergraduate degree in accounting or who have completed the graduate foundation coursework for

the MS in Accounting, or for the MS in Risk Management Accounting/CPA Concentration, or permission of the department.

**ACCT 747. Communications and Accountants.**

(Fall, Spring) Open to students who have completed an undergraduate degree in accounting or who have completed the graduate foundation coursework for the MS in Accounting, or for the MS in Risk Management Accounting/CPA Concentration, or permission of the department.

**ACCT 752. Business Law.** (Fall, Spring) Open to students who have completed an undergraduate degree in accounting or who have completed the graduate foundation coursework for the MS in Accounting, or for the MS in Risk Management Accounting/CPA Concentration, or permission of the department. Not open to students who have taken ACCT 363, Business Law III or RM 706, Risk Transfer to Insurance Markets (Fall, Spring). Those students must choose another elective.

**ACCT 757. Taxation of Business Entities.** (Fall, Spring) Open to students who have completed an undergraduate degree in accounting or who have completed the graduate foundation coursework for the MS in Accounting, or for the MS in Risk Management Accounting/CPA Concentration, or permission of the department.

### **2. Additional Recommended Electives**

**ACCT 707. Contemporary Issues in Management**

**Accounting.** (Fall, Spring) Open to students who have completed an undergraduate degree in accounting or who have completed the graduate foundation coursework for the MS in Accounting, or for the MS in Risk Management Accounting/CPA Concentration, or permission of the department.

**ACCT 748. Advanced Accounting Information**

**Systems.** (Fall, Spring) Open to students who have completed an undergraduate degree in accounting or who have completed the graduate foundation coursework for the MS in Accounting, or for the MS in Risk Management Accounting/CPA Concentration, or permission of the department.

**RM 791. Dynamic Financial Analysis Modeling.**

Prereq.: RM 701, Risk Management (Fall), RM 704, Risk Measurement (Fall), and either RM 705, Risk Transfer to Financial Markets (Spring), or RM 706, Risk Transfer to Insurance Markets (Fall, Spring).

**RM 792. Special Topics in Risk Management.** See

Appendix F, Table F4, for a sample 150-credit program for a student with an undergraduate degree in accounting, and completing the MS in Risk Management with an Accounting/CPA concentration, and Appendix G for a

detailed description of how the MS in Risk Management satisfies the New York state requirements for preparation for Certified Public Accountancy.

## **D. FINANCE/CFA CONCENTRATION**

The Finance/CFA concentration can be completed in between 30 and 45 credits. Students with an undergraduate background in finance can complete the program in 30 credits. In addition to the courses required of all MS in Risk Management students, Finance/CFA concentrators must take the four courses listed below. All will be offered at least once yearly in the evenings. If an equivalent course has been taken at the undergraduate level, additional suggested courses are listed below.

### **I. Required Courses**

In addition to the courses required of all students, which introduce students to risk measurement and management, and risk transfer to both insurance markets and financial markets, the following courses will help students to prepare for the CFA exams and will give students the skills needed for risk management positions in the financial services industry.

**RM 707. Financial Statement Analysis.** (Fall) Prereq.: RM 702, Accounting for Risk Management (Fall) or ACCT 201, Intermediate Accounting 1. Students who have taken ACCT 350, Financial Statement Analysis, or BUS 250, Financial Statement Analysis for Nonaccountants, will not receive credit for this course.

**RM 708. Financial Econometrics.** (Fall) Prereq.: RM 704, Risk Measurement (Fall), ECON 721, Econometrics, or ECON 382, Intro Econometrics, or BUS 384, Forecast & Regression Analysis. Students who have taken BUS 386, Financial Econometrics, will not receive credit for this course.

**RM 709. Portfolio Management.** (Spring) Prereq.: RM 703, Investment Analysis or BUS 350, Investment Analysis. Students who have taken BUS 352, Investment Management, will not receive credit for this course.

**RM 710. Fixed Income Instruments.** (Spring) Prereq.: RM 703, Investment Analysis, or BUS 350, Investment Analysis, completion of basic graduate foundation coursework.

### **2. Additional Recommended Electives**

Students who have completed some of the above courses as undergraduates would be recommended to take RM 792, Special Topics in Risk Management. They would also be recommended to take mathematics electives and/or RM 791, Dynamic Financial Analysis Modeling (listed below).

## **RM 791. Dynamic Financial Analysis Modeling.**

Prereq.: RM 701, Risk Management (Fall), RM 704, Risk Measurement (Fall), and either RM 705, Risk Transfer to Financial Markets (Spring), or RM 706, Risk Transfer to Insurance Markets (Fall, Spring).

## **E. DFA MODELING CONCENTRATION**

The DFA Modeling concentration can be completed in between 30 and 45 credits. Students with an undergraduate background in computer science can complete the program in 30 credits. In addition to the courses required of all RM students, DFA Modeling concentrators must take the four courses listed below. All will be offered at least once yearly in the evenings. If an equivalent course has been taken at the undergraduate level, additional suggested courses are listed below.

### **I. Required Courses**

#### **ECON 715. Advanced Corporate Finance.**

(Fall, Spring) Prereq.: BUS 241, Corporate Finance, or equivalent. Students who have taken BUS 341, Intermediate Finance, will not receive credit for this course.

#### **RM 703. Investment Analysis.** (Fall, Spring) Prereq.:

ECON 602, Introduction to Corporate Finance and Money and Banking (Spring) (4 cr.), or BUS 241, Corporate Finance. Students who have taken BUS 350, Investment Analysis will not receive credit for this course.

#### **CSCI 765. Computational Finance.** (Spring) Prereq.:

CSCI 700, Algorithms I; or, for students in the Risk Management Program, CSCI 314, Data Structures for Finance or the equivalent, and ECON 649, Statistics as Applied to Economics and Business or the equivalent.

#### **RM 791. Dynamic Financial Analysis Modeling.**

Prereq.: RM 701, Risk Management (Fall), RM 704, Risk Measurement (Fall), and either RM 705, Risk Transfer to Financial Markets (Spring), or RM 706, Risk Transfer to Insurance Markets (Fall, Spring).

### **2. Additional Recommended Electives**

**RM 708. Financial Econometrics.** (Fall) Prereq.: RM 704, Risk Measurement (Fall), ECON 721, Econometrics or ECON 382, Intro Econometrics, or BUS 384, Forecast & Regression Analysis. Students who have taken BUS 386, Financial Econometrics, will not receive credit for this course.

**RM 792. Special Topics in Risk Management.** CSCI 780, Special Topics in Computer Science.

## F. ADDITIONAL ELECTIVES FOR ALL CONCENTRATIONS

The following mathematics courses are recommended for students in all concentrations.

**MATH 621. Probability.** Prereq.: MATH 201, Calculus, or equivalent and an introductory course in probability.

**MATH 622. Operations Research.** Prereq.: MATH 241, Introduction to Probability and Mathematical Statistics, or equivalent.

**MATH 633. Statistical Inference.** Prereq.: MATH 201, Calculus or equivalent and MATH 611, Introduction to Mathematical Probability, or MATH 621, Probability, or an undergraduate probability course which includes mathematical derivations.

**MATH 635. Stochastic Processes.** Prereq.: MATH 611, Introduction to Mathematical Probability, or MATH 621, Probability.

**Note 1:** Electives not on the list may be substituted with permission of the program director.

**Note 2:** If all electives in the area of concentration are completed, the student should consult with a faculty advisor to choose additional courses.

### **Risk Management (RM) 701. Risk Management.**

3 hr.; 3 cr. Prereq.: Completion of graduate core curriculum for the MS in Risk Management or permission of program director. The course provides a broad overview of why managing risk is important to organizations and of the risk management function. The course utilizes the RM framework to identify sources of value and stakeholder objectives, to categorize events that pose risk, to determine the organization's appetite for risk and to determine levels of risk retention. The course covers various risk types and examines how each is quantified, transferred, or retained and priced-for. The course is case-study and group-study intensive.

**Risk Management (RM) 702. Accounting for Risk Management.** 3 hr.; 3 cr. Prereq. or coreq.: RM 701, Risk Management. This course is intended to provide graduate-level exposure to accounting theory for students enrolled in the MS in Risk Management program. The course will cover essentials of the conceptual framework of accounting and will focus on issues affecting recognition and measurement of the economic events that affect financial statements in particular, those that affect the firm's risk profile and risk transfer. The course will not be open to MS in Accounting students. Credit will not be given for this course if ACCT 350 or BUS 250 has already been taken and students will be required to take an additional elective from the RM program offerings.

### **Risk Management (RM) 703. Analysis of Investment and Market Risk.**

3 hr.; 3 cr. Prereq.: ECON 602, Introduction to Corporate Finance and Money and Banking or BUS 241, Corporate Finance; ECON 649, Statistics as Applied to Economics and Business; or equivalent as approved by the program director. The course will focus on the application of financial theory to the issues and problems of investment management. Topics will include bond valuation and strategies, stock valuation and strategies, portfolio optimization and asset allocation, the CAPM, and their implications for investment management. The course will first examine the valuation and selection of various investment instruments, then move on to cover portfolio optimization issues and risk management.

### **Risk Measurement (RM) 704. Risk Measurement.**

3 hr.; 3 cr. Prereq. or coreq.: RM 701, Risk Management. This course provides an in-depth review of the fundamentals of probability and statistics, followed by the measurement of various risk types. The course examines instances of market failure, the role of collateralization requirements, the impact of term, time horizon, and covariance, and extreme value theory. The course also covers probabilistic and stochastic risk modeling, calculations of value-at-risk, stress testing, and other risk metrics, and the limitations of each of these measures.

### **RM 705. Risk Transfer to Financial Markets.**

3 hr.; 3 cr. Prereq. or coreq.: RM 701, Introduction to Risk Management; RM 703 or BUS 350, Investment Analysis is recommended. The primary emphasis of this course is on the structure, pricing, hedging, and strategies of futures and options contracts and their applications in a risk management context. The economic role of options and futures markets is examined. Specific topics include: determinants of forward and futures prices, option valuation using binominal trees and Monte Carlo simulation, implied binominal trees, relation between puts and calls, uses of options in investment strategies, hedging techniques, exotic options, applications to corporate securities and other financial instruments.

### **Risk Management (RM) 706. Risk Transfer to Insurance Markets.**

3 hr.; 3 cr. Prereq. or coreq.: Undergraduate degree in accounting or completion of Graduate Core Curriculum: ECON 601, Introduction to Micro- and Macro-Economics; ECON 602, Introduction to Corporate Finance and Money and Banking; ECON 649, Statistics as Applied to Economics and Business; and ACCT 600, Financial Theory and Accounting Practice, Part I, or permission of program director. RM 701, Introduction to Risk Management is recommended. This course examines risk transfer to insurance markets. Topics covered will include the variety of ways that risk

transfer can occur including quota share and excess of loss agreements, catastrophe bonds, captives, reciprocals, segregated cells, and their structuring, such as retentions, limits, corridors, collateralization, reinstatement, and commutation provisions, and structured/financial insurance. Insurance products will be evaluated for their efficiency in risk transfer. How effective insurance markets are relative to capital markets will be evaluated in terms of terms and conditions, pricing, and basis risk.

**Risk Management (RM) 707. Financial Statement Analysis.** 3 hr.; 3 cr. Prereq.: RM 702, Accounting for Risk Management or ACCT 201, Intermediate Accounting I, and ACCT 202, Intermediate Accounting II. Analyses are made of financial statements of public companies from the perspective of investors, management, creditors, accountants, and auditors. Financial statements and related disclosures will be analyzed to gain perspective on a company's health. Business valuation models and techniques to develop forecasts and pro forma results will be discussed and illustrated. Ratio analysis and key performance indicators will be emphasized with a case-study approach to this subject. Credit will not be given if ACCT 350 or BUS 250 has been taken.

**Risk Management (RM) 708. Financial Econometrics.** 3 hr.; 3 cr. Prereq.: ECON 721 or equivalent; and RM 704, or MATH 241, or permission of the instructor. The course covers modern statistical and econometric techniques necessary for both professional and academic quantitative research in finance. Particular emphasis will be placed on measuring and analyzing the risk of holding and trading financial assets.

**Risk Management (RM) 709. Portfolio Management.** 3 hr.; 3 cr. Prereq. or coreq.: RM 703, Analysis of Investment and Market Risks, or BUS 350, Investment Analysis. Individual courses may be waived for those students who have taken equivalent courses as part of their undergraduate program. This course provides a detailed examination of portfolio management. Topics include definition and measurement of risk market efficiency, testing for inefficiencies, components and determinants of trading costs, mechanics of creating and managing a portfolio, and investment philosophies. The mechanics of creating and managing a portfolio are illustrated for both bonds and equities.

**RM 790. Applied Dynamic Financial Analysis.** In this course, students will contribute to the building and development of Dynamic Financial Analysis (DFA) models tailored to a financial institution, non-financial corporation, or pension fund. The DFA model is an asset-liability management model in which an organization's asset and liability values are forecasted over time and simulated by allowing economic, financial, and other business drivers of the cash flows to vary stochastically, in a dynamic and simultaneous fashion, using Monte Carlo and other simulation methods. The course is open to students only by permission of the program director.

**RM 791. Applied Financial Dynamic Analysis Model Building.** 2 hr. plus conf.; 3 cr.

**Risk Management (RM) 710. Fixed Income Instruments.** 3 hr.; 3 cr. Prereq.: ECON 602, Introduction to Corporate Finance and Money and Banking, or BUS 241, Corporate Finance. Recommended: MATH 131, Calculus with Applications to the Social Sciences. The course exposes students to an in-depth analysis of the concepts encountered in the market for fixed income securities. The student will develop tools to price bond and money market instruments, understand the term structure of interest rates, analyze the Treasury yield curve, and evaluate credit yield spreads. The course illustrates hedging and other trading and portfolio strategies, and explores fixed income derivative instruments.

**Risk Management (RM) 792. Special Topics in Risk Management.** 3 hr.; 3 cr. Prerequisites or corequisites will vary with the particular topic, or with permission of the program director. This course will be a seminar in risk management covering a special topic as it relates to RM, such as governance, behavioral finance, or corporate strategy.

**CLARIFICATION AND UPDATING OF THE REQUIREMENTS (NUMBER OF CREDITS) IN THE ADVANCED CERTIFICATE PROGRAM IN SCHOOL PSYCHOLOGY**

**CURRICULUM FOR ADVANCED CERTIFICATE IN SCHOOL PSYCHOLOGY**

Admission Requirements: Admission to the Advanced Certificate Program in School Psychology is limited to:  
 a) students already possessing master’s degrees in psychology, education or related fields who want to obtain certification as school psychologists, and  
 b) satisfactory completion of 9 prerequisite courses.

Advanced Certificate Courses: Six (6) credits of full-time internship are required. The additional coursework (24–54 credits) will be determined from the list of courses below based on review of student’s prior graduate record.

**ADVANCED CERTIFICATE COURSES:**

<b>Required (6 Credits)</b>	<b>Credits</b>
ECPSP 768,768.I Internship in School Psychology I	3
ECPSP 769,769.I Internship in School Psychology II	3
<b>Options (24–54 Credits)</b>	
ECPSP 764 Introduction to Research in School Psychology	3
ECPSP 770 Behavioral Assessment and Intervention	3
ECPSP 771 Professional Issues in School Psychology	3
ECPSP 772 Theory and Practice in Assessment of Intelligence and Cognitive Functioning I	4
ECPSP 773 Theory and Practice in Assessment of Intelligence and Cognitive Functioning II	4
ECPSP 774 Theory and Practice of Personality Evaluation I	3
ECPSP 775 Theory and Practice of Personality Evaluation II	3
ECPSP 777 Practicum in School Psychology Assessment	4
ECPSP 778 Counseling Techniques for School Psychologists	3
ECPSP 779 Multicultural Issues in Schools	3
ECPSP 860 Human Development	3
ECPSP 861 Seminar in Special Issues:Assessment of Linguistically and Culturally Diverse Students	3
ECPSP 862 Developmental Psychopathology	3
ECPSP 863 Exceptionality of Human Development	3
ECPSP 864 Research Design and Data Analysis in School Psychology	3
ECPSP 865 Learning and Instructional Strategies	3
ECPSP 866 Seminar in Special Issues: Multicultural Interventions	3
ECPSP 867 Practicum in School Psychology Consultation	4
ECPSP 868 Advanced Counseling Practicum	2

**Total Credits 30–60\***

\*30–60 credits to be determined based on review of prior graduate record

**PROGRAM THAT HAS BEEN UPDATED SINCE THE PUBLICATION OF THE LAST BULLETIN:**

**POST-MASTER’S, ADVANCED CERTIFICATE PROGRAMS IN SPECIAL EDUCATION:**

**Adolescent Special Education (grades 7–12)  
Section AI: Special Actions**

**Creation of a Certificate Program**

Resolved that a post-master’s advanced certificate program in Adolescent Special Education to be offered at Queens College be approved, subject to financial availability.

**Rationale**

This certificate program was submitted previously but, due to imprecise wording, was approved only for three content areas: English, Social Studies, and Mathematics. The program is intended for applicants with master’s degrees in all secondary education content areas. These content areas are spelled out in this resubmission.

**Curriculum**

**Adolescent Special Education (grades 7–12)**

Semester	Course #	Course Title	Credits
Fall I	ECPSE 722	Applied Behavior Analysis & Positive Behavior Supports	3
	ECPSE 740	Curriculum & Instruction for Adolescent Special Education	3
Spring I	ECPSE 701	Introduction to Assessment in Special Education	3
	ECPSE 700	Foundations of Special Education	3
Summer I	ECPSE 725	Internship in Severe Disabilities	6
			18

**Explanation**

The Post-Master’s Advanced Certificate Program in Adolescent Special Education is designed for candidates with master’s degrees in a secondary content area (i.e., biology, chemistry, physics, mathematics, English, foreign languages, history, and social studies; note that this program has previously been approved for the English, social studies, and mathematics content areas) who have New York State Initial (Provisional) and/or Professional (Permanent) Teacher Certification in a general education content area (grades 7–12). This new advanced certificate program is aligned with (a) the New York State Education Department’s required core competencies in special education for extending general education licenses, and (b) the core values of the Education Unit of Queens College

of “promoting *Equity, Excellence, and Ethics* in urban schools and communities.” The curriculum for the above certificate program in Adolescent Special Education is a subset of the program in Adolescent Special Education within the Department of Educational and Community Programs leading to the award of the Master of Science in Education (MSEd) degree that is currently offered at the college (SED Program Code: 0808.00, HEGIS). Complete copies of the proposal for this program are on file and available for review in the Office of Academic Affairs.

**POST-MASTER’S, ADVANCED CERTIFICATE PROGRAM IN SPECIAL EDUCATION:**

**Adolescent Special Education (grades 7–12)**

**Program Description and Purpose**

This post-master’s, 18-credit, one-year, advanced certificate in adolescent special education leads to a New York State license in special education at the adolescent level (grades 7–12) for individuals with master’s degrees in education and New York State Initial and/or Professional (Permanent) Teacher Certification in a general education content area.

This new advanced certificate program is aligned with (a) the New York State Education Department’s required core competencies in special education for extending general education licenses, and (b) the core values of the Education Unit of Queens College of “promoting *Equity, Excellence, and Ethics* in urban schools and communities.” Graduates who have completed all required New York State seminars and the Content Specialty Test (CST) in Students with Disabilities will be recommended to the New York State Education Department (NYSED) for a *second license* in Teaching Students with Disabilities at the adolescent level.

**Curriculum Scope and Sequence: Required Courses Adolescent Special Education (grades 7–12)**

Semester	Course #	Course Title	Credits
Fall I	ECPSE 722	Applied Behavior Analysis & Positive Behavior Supports	3
	ECPSE 740	Curriculum & Instruction for Adolescent Special Education	3
Spring I	ECPSE 701	Introduction to Assessment in Special Education	3
	ECPSE 700	Foundations of Special Education	3
Summer I	ECPSE 725	Internship in Severe Disabilities	6
			18

**Relationship of Program to Existing Program at the College**

The post-master’s, advanced certificate in adolescent special education extends the offering of the Graduate Programs in Special Education (GPSE). The GPSE is part of the Department of Educational and Community Programs (ECP), which offers graduate programs in Counselor Education, School Leadership, School Psychology, and Special Education. Currently, the GPSE offer three 36-credit specializations or programs leading to the Master of Science in Education (MSEd) in Teaching Students with Disabilities at the Early Childhood, Childhood, and Adolescent levels. Additionally the GPSE, in collaboration with Elementary and Early Childhood Education (EECE) and Secondary Education and Youth Services (SEYS), offer two dual certification programs for New York City Teaching Fellows leading to the Master of Arts in Teaching (MAT) in Teaching Students with and without Disabilities at the Childhood and Adolescent Generalist levels.

New York State requires that candidates with existing certification as secondary level content area teachers who are interested in obtaining a second certification in special education complete coursework that addresses the requirements specific to Students with Disabilities (i.e., “Additional Pedagogy—Students with Disabilities”).

Table 1 illustrates how all the additional pedagogy requirements for New York State are met by four of the five courses that form this advanced certificate program. These are existing courses that are approved by NYSED, Queens College, and the City University of New York from the existing Adolescent Special Education MSEd program (SED Program Code: 0808.00, HEGIS).

**Table 1  
NYSED Additional Pedagogy Core Areas for Special Education and the Existing Queens College Courses that Meet Them**

<p><b>THREE CREDITS MUST BE IN THE FOUNDATIONS OF SPECIAL EDUCATION—STUDENTS WITH DISABILITIES</b></p>
<p><b>NYSED description of Pedagogy Area</b>  <i>“Acceptable studies include courses in the foundations of education for students with disabilities; introduction to special education; and history, philosophy, or sociology of special education.”</i></p>
<p><b>Existing GPSE Course to Meet Pedagogical Area</b>            ECPSE 700—Foundations of Special Education</p>

**THREE CREDITS MUST BE IN ASSESSMENT, DIAGNOSIS, AND EVALUATION**

***NYSED description of Pedagogy Area***

*“Acceptable courses are those designed to provide understanding of assessment procedures for evaluating individual differences and making placement and programming decisions for students with disabilities.”*

***Existing GPSE Course to Meet Pedagogical Area***

ECPSE 701—Introduction to Assessment in Special Education

**SIX CREDITS MUST BE IN CURRICULUM AND INSTRUCTION (3 CREDITS); AND MANAGING ENVIRONMENTS FOR STUDENTS WITH DISABILITIES (3 CREDITS)**

***NYSED description of Pedagogy Area***

*“Acceptable studies include courses in the principles of curriculum development for students with disabilities, developmentally appropriate learning experiences for young exceptional learners, computers and educational technology in general, and special education.”*

***Existing GPSE Course to Meet Pedagogical Area***

ECPSE 740—Curriculum and Instruction for Adolescent Special Education

ECPSE 722—Applied Behavior Analysis and Positive Behavior Supports

In addition to the four courses described in Table 1, candidates participate in a 6-credit Internship in Severe Disabilities (ECPSE 725), which meets the requirements of 52.21(b)(2)(ii)(c)(2)(i) for individuals who already have one teaching certification and are seeking a second certification of college-supervised student-teaching experiences of at least 20 school days. ECPSE 725 also provides candidates with competencies (knowledge, skills, and disposition) that are aligned with new NYSED requirements related to autism.

**NO MORE THAN THREE CREDITS MAY BE TRANSFERRED FROM ANOTHER PROGRAM**

***Criteria for Admission to the Program***

A modified application and application process will assure that all applicants meet the required admission criteria.

**All applicants will be required to:**

- Have completed a master’s degree in education.
- Have an overall Grade Point Average (GPA) of 3.0 or better in their master’s program.
- Have New York State Teacher Certification at the Initial or Professional (Permanent) level in a general education content area (grades 7–12).

**Once admitted to the post-master’s, advanced certificate program, candidates will be required to:**

- Get a grade of 3.0 or better in each class.
- Demonstrate professional disposition and behavior.
- Perform successfully on all program-level and unit-level assessments.
- Candidates who meet these requirements for graduation, and who have completed all required New York State seminars and have taken the Content Specialty Test (CST) in Students with Disabilities, will be recommended to the New York State Education Department by the Queens College Office of Teacher Certification for extensions to their licenses in Teaching Students with Disabilities at the adolescent level.

**Projected Enrollment**

It is anticipated that this 18-credit, one-year, post-master’s, advanced certificate program will take in approximately 8 candidates a year.

**Resources Required Will Not Negatively Impact Existing Programs**

All courses that compose this post-master’s, advanced certificate program are existing ECPSE courses. Thus, no new courses would need to be developed. It is anticipated that this advanced certificate program would take in approximately 8 candidates per year and that candidates would be integrated into existing sections of ECPSE courses to minimize the need to add additional sections of courses. Approximately 67% of all courses in GPSE are taught by full-time faculty. It is assumed that the ratio will remain similar with the addition of this post-master’s, advanced certificate program.

The majority of education courses in ECPSE are taught in the recently renovated Powdermaker Hall. As a result, the majority of classrooms where advanced certificate candidates would take classes have wireless Internet access, data projectors, and other necessary technology. Classrooms are reasonably large and therefore, with regard to facilities and equipment, the GPSE are prepared for the projected increase of enrollment.

# Queens College Tuition

Effective as of Fall 2009

	<b>New York State Resident Students</b>	<b>Out-of-State Resident or International Students</b>
<b>Undergraduate</b>		
Full-time	\$2,300 per semester	\$415 per credit*
Part-time	\$195 per credit	\$415 per credit*
Non-Degree*	\$285 per credit	\$610 per credit*
<b>Graduate</b>		
Full-time	\$3,680 per semester	\$575 per credit/\$85 per excess hour*
Part-time	\$310 per credit/\$65 per excess hour	\$575 per credit/\$85 per excess hour*
Non-degree*	\$310 per credit/\$65 per excess hour	\$575 per credit/\$85 per excess hour*

\*There are no maximum tuition charges.

All tuition and other fees listed in any material issued by the college are subject to change. In the event of any increase in fees or tuition charges, payments already made to the college will be treated as partial payments, and notification will be given of the additional amount due and the time and method of payment.