MINUTES OF THE ACADEMIC SENATE OF QUEENS COLLEGE March 10, 2005

Kiely Hall room 170

1. The Holder of the Chair, Elizabeth Lowe, called the meeting to order at 3:50 p.m.

2. Approval of Agenda:

MOTION: Duly made, seconded and passed:

"To adopt the Agenda."

3. Approval of Minutes:

MOTION: Duly made, seconded, and passed:

"To adopt the Academic Senate meeting minutes of February 10, 2005."

4. Announcements, Administrative Reports, and Memorials:

- a. The Chair thanked Elliot Schimel for chairing the last meeting and she thanked Ken Lord for filling in as Parliamentarian.
- b. Joseph Bernstein announced that there is a new web site <u>SupportCUNY.org</u> which allows one to write letters to local and state representatives regarding the tuition hike, TAP cuts, and other issues. He asked for support from the college community in this endeavor.
- c. Zeeshan Suhail announced that to further help the tsunami relief effort, he has shamrocks with space for one's name, which will be available at the end of the meeting for a \$1.00 contribution. The money will go to the Wheelchair Foundation, which will help replace lost wheelchairs, canes or crutches for the tsunami victims.
- d. Dean Donald Scott addressed the Senate. He spoke of challenges he had as dean that will be ongoing for the new dean as well. As chair of the President's Task Force on General Education, he explained their process and the final report that was issued. The work of the Task Force is finished and it is up to the Undergraduate Curriculum Committee and the Senate to proceed. He spoke of his future position as Director of the new Office of Teaching and Learning. Dean Scott took questions.

5. Committee Reports:

a. Nominating Committee (Kaufmann):

Prof. Kaufmann distributed a report on committee openings and encouraged faculty and students to apply to fill these vacancies.

i. The following faculty were nominated for the Math & Natural Sciences seat on the Campus Environment Committee:

Mihaela Robila

(to December 2005)

Seeing no further nominations, the Chair asked the Secretary "to cast one ballot for the nominee."

5.a. continued

ii. The following students were nominated for an OPEN seat on the International Student Affairs Committee:

Hang Pan (to December 2006)

Seeing no further nominations, the Chair asked the Secretary "to cast one ballot for the nominee."

iii. The following faculty were nominated for an OPEN seat on the Policy Board on Administration:

Terrence Quinn

(to December 2006)

Seeing no further nominations, the Chair asked the Secretary "to cast one ballot for the nominee."

iv. The following students were nominated for an OPEN seat on the Committee on Teaching Excellence and Evaluation:

Johan Gunawan

(to December 2006)

Seeing no further nominations, the Chair asked the Secretary "to cast one ballot for the nominee."

v. The following faculty were nominated for an OPEN seat on the Special Committee on Governance:

Michael Miller

(to December 2006)

Seeing no further nominations, the Chair asked the Secretary "to cast one ballot for the nominee."

vi. The following students were nominated for the Social Sciences seat on the Special Committee on Technology and Library:

Johan Gunawan

(to December 2005)

Seeing no further nominations, the Chair asked the Secretary "to cast one ballot for the nominee."

- b. Undergraduate Curriculum Committee (Lord):
 - i. MOTION: Duly made:

"To adopt the recommendations of the Undergraduate Curriculum Committee dated January 20, 2005."

Corrections (Lord): On page 6, third line of Chemistry Track should read, "...laboratory combination from among the following 3 credits of Chemistry..."

On page 6, second line of Biochemistry Track should read, "...among the following 3 credits of Chemistry...."

On page 6, first line of Biochemistry Track, delete 342.

ii. MOTION: Duly made (Rothenberg) and seconded:

"To amend the motion, to maintain Math 201 as a required course for Chemistry majors until such time as a replacement course in mathematical methods for Chemistry can be developed."

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5.b. continued

iii. MOTION: Duly made (Schimel) and seconded:

"To refer item 2 back to committee."

iv. MOTION: Duly made (Lord), seconded and passed:

"To amend motion iii, to divide items 2.b and 2.p."

v. MOTION: Duly made, seconded and passed:

"To call the question."

Motion iii failed.

vi. MOTION: Duly made, seconded and passed:

"To call the question."

Motion ii failed.

Motion i passed.

2. Chemistry and Biochemistry

- a. Change in title, hours, prerequisite, description, to read:
 - 342. Instrumental Analysis. 2 lec., 1 rec., 4 lab. hr.; 4 cr. Prereq. or: Coreq.; Chemistry 313 and 315. Quantitative determinations using instrumental methods. Laboratory experiments utilizing commercially available instruments are included. MAT charge, \$30. Spring
- b. Change in number, title, prerequisite, description, to read:
 - 313 Physical Chemistry I. 3 hr.; 3 cr. Prereq. Physics 122 or 146, Mathematics 143 or 152, Chemistry 114 with a grade of *C* or higher. Thermodynamics, equilibrium, electrochemistry, and kinetics, Fall
- c. Change in number, prerequisite, description, to read:
 - 314. Physical Chemistry II. 3 hr.; 3 Prereq. Mathematics 231 with a grade of C- or higher. Prereq. Chemistry 313 with a grade of C- or higher, Quantum theory, spectroscopy, and atomic theory. Spring

5.b. continued

- d. Change in number, prerequisite, description, to read:
 - 315. Physical Inorganic Laboratory. 1 rec., 4 lab hr. 2 cr. Prereq. or coreq.: Chemistry 313. An introduction to experimental techniques in thermodyanmics and in the synthesis and characterization of nanomaterials. MAT charge, \$30. Fall
- e. Change in number, prerequisite, description, to read:
 - Chemistry 316. Physical Chemistry Laboratory. 1 rec., 4 lab hr. 2 cr. Prereq. or coreq: Chemistry 314. An introduction to kinetics and molecular spectroscopy. MAT charge, \$30. Spring
- f. Change in prerequisite, to read:
 - 331. Advanced Inorganic Chemistry. 3 lec. hr.; 3 cr. Prereq.: Grade of *C* or higher in Chemistry 252. A survey of the fundamental aspects of inorganic chemistry designed to acquaint the student with the electronic structure of atoms and molecules, bonding, structure, group theory, spectroscopy, and the kinetics and mechanisms of inorganic reactions. Fall
- g. Change in number and prerequisite, to read:
 - 371. Biochemistry I. 4 lec. hr.; 4 cr. Prereq.: A grade of *C* or higher in Chemistry 252 and in Biology 108, or permission of instructor. Structure, properties, biosynthesis, and metabolism of major groups of compounds of biological importance: proteins, amino acids, nucleic acids, carbohydrates, lipids, and vitamins. Fall, Spring
- h. Change in title and prerequisite, to read:
 - 376. Biochemistry Laboratory. 1 rec., 4 lab. hr.; 2 cr. <u>Prereq.: Chemistry 371</u>. Experimental study of selected biochemical processes; enzyme kinetics; biological oxidations; use of radioactive tracers; chromatographic separation and purification of major types of natural substances. MAT charge, \$30. Fall, Spring
- i. Change in title, number, prerequisite, description, to read:
 - 372. Biochemistry II. 3 lec. hr.; 3 cr. Prereq.: A grade of *C* or higher in 371. Metabolism of lipids, amino acids, nucleotides, nucleic acids, and proteins Spring
- j. Change in prerequisite, to read:
 - 378. Physical Biochemistry. 3 lec. hr.; 3 cr. Prereq. A grade of *C* or higher in <u>Chemistry 313</u>; <u>prereq. or coreq. Chemistry 371</u> Structure and conformation of proteins, nucleic acids, and other biopolymers; physical techniques for study of macromolecules; behavior and properties of biopolymers.†

5.b. continued

k. Change in prerequisite, to read:

379. Biophysical Chemistry Laboratory. 1 rec., 4 lab. hr.; 2 cr. Prereq.: Grade of *C*– or higher in Chemistry 313 and 315; prereq. Or coreq.: Chemistry 378. Application of physical chemical techniques to the study of biomolecular properties, including molecular conformations, kinetic and thermodynamic aspects of ligand binding, redox properties and separation techniques. MAT charge, \$30.†

1. Change in prerequisite, to read:

380. Selected Topics in Biochemistry. 3 lec. hr.; 3 cr. Prereq.: Chemistry <u>372</u> or permission of instructor. In-depth treatment of topics such as recombinant DNA technology, biochemistry of cancer, membrane structure and function, control and regulation in metabolic processes, bioinorganic chemistry.†

m. Change in prerequisite, to read:

387. Advanced Integrated Laboratory and Introduction to Research Techniques. 1 rec., 5 lab. hr.; 3 cr. Prereq. or coreq.: Chemistry 331, 386, and either 314 or 378. The synthesis, separation, and characterization of both inorganic and organic substances using advanced laboratory techniques such as syringe procedures for working in air-free systems, vacuum distillation and sublimation, use of liquid ammonia, chromatographic techniques of separation, and soxhlet extraction. Handson use of Fourier transform infrared and nuclear magnetic resonance spectrometers, and use of circular dichroism and fluorescence spectrometers. MAT charge, \$30. Spring

n. Change in title and description, to read:

391. Research in Chemistry and Biochemistry. 391.1, 3 hr.; 1 cr, 391.2 6 hr.; 2 cr, and 391.3 9 hr.; 3 cr. Prereq. Chemistry 252 and by permission of the Department. Advanced research under the supervision of a faculty member in the Department. A written report will be submitted to and approved by the Department. HMNS 391.1-3 may be substituted for Chemistry 391.1-3 but a written report will be submitted to and approved by the Department. MAT charge, \$30 for each course. Fall, Spring

o. New course

CHEM 291. Introduction to Research in Chemistry and Biochemistry.

3 lab. hr. 1 cr. Prereq. Chemistry 113 and by permission of the Department.

Introduction to research techniques in chemistry and biochemistry under the supervision of a member of the department. The purpose of the course is to effect a transition from experiments for which the outcome is known to designing and doing experiments to secure the information necessary to solve a problem for which the outcome is not known. MAT charge, \$30. Fall, Spring

5.b. continued

p. Change in requirements for the Major in Chemistry, to read:

Chemistry Track:

Required: Chemistry 113, 114, 251, 252, 313, 314, 315, 316, 331, 342, 371; one advanced elective from among the following: Chemistry 354, Chemistry 363, Chemistry 372, Chemistry 378, or Chemistry 386; and one laboratory combination from among the following 3 credits of Chemistry 391.1-3; or 391.1 and one of Chemistry 376, Chemistry 379, or Chemistry 387; or two of Chemistry 376, Chemistry 379, or Chemistry 387. Biology 108; Math 141, 142, and 143, or Math 151 and 152; Math 231; Physics 121 and 122. For students planning on graduate school in chemistry or biochemistry, Physics 145 and 146 is recommended instead of 121 and 122, and Math 201 is recommended. A grade of C- or higher is required for all courses specified as prerequisites.

Biochemistry Track

Chemistry 113, 114, 251, 252, 313, 315, 331, 371, 372, 376, 378, 379 and one laboratory combination from among the following 3 credits of Chemistry 391.1-3; or 391.1 and one of Chemistry 342, Chemistry 387, or Biology 262; or two of Chemistry 342, Chemistry 387, or Biology 262. Biology 108; Math 141, 142, and 143, or Math 151 and 152; Physics 121 and 122. For students planning on graduate school in chemistry or biochemistry, Physics 145 and 146 is recommended instead of 121 and 122, and Math 201 is recommended. A grade of C- or higher is required for all courses specified as prerequisites.

r. Change in requirements for the Minor in Chemistry, to read:

Required: Chemistry 113, Chemistry 114, Chemistry 251, Chemistry 252 and either Chemistry 313 or Chemistry 371, and one laboratory course chosen from among 291, 314, 376, 391, or the equivalent HMNS research course.

3. Computer Science

a. Change in Requirements for the Minor in Computer Science, to read:

Core Requirements: Computer Science 111 (unless exempt), 211, 212, 220, 240, and 313.

b. Change in Requirements for the Majors in Computer Science (BA), to read:

BACHELOR OF ARTS DEGREE

Core Requirements: Computer Science 111, 211, 212, 220, 240, 313, 316, 320, 323, 331, 340, 343, and 370.

Elective Requirements: Nine credits of computer science courses numbered 200-699, except 398, 603, 615, and 642. One course from the following list may be used unless it has been applied towards the fulfillment of the math or science requirements for the major: Biology 330; Mathematics 202, 223, 224, 231, 232, 237, 242, 245, 247, 248, 317, 333, 337, 609, 613, 619, 621, 623, 624, 625, 626, 633, 634, 635, or 636; Physics 225, 227, 265, or 311.

Self-study language courses may not be used to satisfy this requirement. No more than three credits of Computer Science 390 through 399 may be used as part of the major without the approval of the Honors and Awards Committee.

c. Change in Requirements for the Majors in Computer Science (BS), to read:

BACHELOR OF SCIENCE DEGREE

Elective Requirements: Fifteen credits of computer science courses numbered 200-699, except 398, 603, 615, and 642. One course from the following list may be used unless it has been applied towards the fulfillment of the math or science requirements for the major: Biology 330; Mathematics 202, 223, 224, 232, 242, 245, 247, 248, 317, 333, 337, 609, 613, 619, 621, 623, 624, 625, 626, 633, 634, 635, or 636; Physics 225, 227, 265, or 311.

<u>Self-study language courses may not be used to satisfy this requirement.</u> No more than three credits of Computer Science 390 through 399 may be used as part of the major without the approval of the Honors and Awards Committee.

4. Urban Studies

a. New Course:

UBST 217. Introduction to Social Work. 3 hours, 3 credits. Prerequisite: None. The values, knowledge, and skills of the social work profession, focusing on the historical and contemporary roles and relationships of the social work profession to community problems, fields of practice, vulnerable populations, and social welfare history and policy.

5. Mathematics

a. Change to Major (The Pure Mathematics Option), to read:

Required: Mathematics 201 and 202 (or 207), 310 (or 208 or 320), and either 231 or 237; Physics 121 and 122, or Physics 103 and 204, or Physics 145 and 146, or Economics 205 and 206, or Economics 225 and 226. Six courses must be taken from those listed in Groups A and B, at least four of which must be from Group A and include either Mathematics 317, 333, 613, or 617.

Group A: Mathematics 232, 317, 320, 333, 337, 395, 396, and all 600-level mathematics courses, except 601. Math 320 may not be counted as a Group A course if it has been used to satisfy the requirement above.

Group B: Mathematics 220, 223, 224, 241, 242, 245, 247, 248, 249, 328, <u>503, 505, 509,</u> 518, 524.

With the permission of the chair or the Assistant Chair for Evening Studies, courses in physics may be substitute for some of the courses in mathematics listed in Group A or B.

For majors centering on a specific career objective, it is recommended, but not required, that elective courses be chosen from those listed below:

High School Teaching: Mathematics 317 (or 617) and 618 and 241, plus courses chosen from 310, 333 (or 613), 518, 524, 619, 621, 626, 636. Courses in Computer Science and Physics are strongly recommended.

College Teaching: Mathematics 310, 320, 337 (or 333 or 613), 609, 612, 614, 618, 619, 621, 624, 625, 626, 628, 631, 634, 636.

Mathematical Physics: Mathematics 220, 223, 224, 328, 333 (or 613) 614, 624, 628, and a number of Physics courses beyond Physics 146.

Computer Science: Mathematics 220, 223, 224, 232, 241, 242, 245, 247, 248, 249, 310, 328, 333, (or 613), 614, 621, 623, 624, 625, 626, 628, 633, ,634, 636.

Statistics: Mathematics 241, 242, 614,621, 624, 633, and 635.

Actuarial Work: Mathematics 173, 241, 242, 247, 271, 272, 621, 623, 624, 625, 633; Accounting 101 and 102. These course will adequately prepare the students for the first three actuarial examinations.

b. Change to Major (The Applied Mathematics Option), to read:

All students electing the applied mathematics option must take 201 and 202 (or 207); either 231 or 237; either 241 or 611; and Computer Science 12, 80, 86, or 111. They must also take six courses from Group I, at least two of which must be numbered 300 or higher, and must follow one of the tracks in Group II below:

Group I: Mathematics 208, 220, 223, 224, 232, 242, 245, 247, 248, 249, 310, 328, 333, <u>503, 505, 509,</u> 613, 614, 619, 621, 623, 624, 625, 628, 633, 634, 635, 636. Except for students in the Operations Research track, students cannot use all three of the courses 247, 248, 249 in fulfilling the Group I requirement.

Group II: Consult your adviser for an updated list.

Biology: Biology 107, 108, and Chemistry 113, 114 (or equivalent).

Computer Science track: Computer Science <u>111</u> plus any <u>three Computer Science</u> courses <u>numbered 211 or higher which carry 3 or more credits.</u>

Economics track: Economics 101, 102, and 205, 206 or 225, 226.

Physics track: Physics 145, 146 and <u>any</u> two <u>Physics courses numbered 221 or higher which carry</u> 3 or more credits.

Psychology track: Psychology 101, 213W, and <u>any</u> two <u>Psychology</u> courses <u>numbered 214 or higher.</u>

Operations Research track: three additional courses from Group I, to make a total of nine: the nine courses must include Mathematics 247 (or 248), 623, and 633.

<u>Custom track:</u> A series of courses making up a meaningful program in an area in which mathematics has significant application. This series must be approved by the student's faculty adviser.

All students must have completed Mathematics 151 and 152 or the equivalent.

c. Change to Major (Secondary Education Option), to read:

Mathematics 231 or 237; 201, 505, 241 or 611; 518, 220; 333 or 613; 385, Computer Science 111 and 211; Secondary Education 201, 221, 340, 350, 361, 371, 381. Three or four additional courses as follows: *three* additional courses chosen from Lists X and Y below, of which at least *two* must be from List X OR *four* additional courses chosen from Lists X and Y below, of which at least *one* must be from List X.

List X: Mathematics 310, 317 (or 617), 609, 612, 618, 619, 626 and 634. Mathematics 310 is recommended for those who expect to teach calculus. Also especially recommended are 317 (or (617), 618 and 619.

List Y: Mathematics 202, 223, 232, 242, 245, 247, 248, 320 and all 500- and 600- level courses not already used to satisfy the above requirements. Mathematics 202 is usually required for entry into master's degree programs in mathematics.

A year of college physics is recommended.

6. Drama, Theater and Dance

a. Change in title, number and prerequisites, to read:

Drama <u>110</u>. Musical Theatre Workshop I. 3 hr.; 3 cr. Practice of <u>basic</u> performance techniques, including auditioning, for the performer in musical theatre.

b. New course:

Drama 210, Musical Theatre Workshop II. 3hr; 3 cr. Prereq. Musical Theatre Workshop I or permission of the Department. Investigation, through exercises and performance, of the skills and techniques needed to perform songs and scenes from the American Musical Theatre catalogue. The course will examine the distinctive structure of musical comedy; how a scene in a musical comedy leads characters to a song and that song heightens the characters' scene. Students will stage, produce, direct, and perform a public performance of a staged concert of a classic musical comedy or a review presentation of musical scenes and songs will be presented.

vii. MOTION: Duly made and passed:

"To adopt the recommendations of the Undergraduate Curriculum Committee dated February 10, 2005."

1. Biology (05-02)

a. Remove Biology 11 from the reserve list.

2. Music (05-03)

a. Change to a Major: Music Education, to read:

III. The Music Major with the Music Education Sequence

Students who intend to teach music in public schools or other institutions requiring State Certification must take all of the courses listed under the Standard Music major above, plus Secondary Education 201, 221, Elementary Education 310, and either Elementary 340 or Secondary 340, and Music 166, 267, 268 or 269, 367, 369, and 370. Music 267 (Introduction to Music Education) is a prerequisite to all other music education courses. Students must pass this course with a minimum grade of B- in order to continue the music education sequence. Students must select a concentration in either instrumental or choral music education.

- b. Change to a Major: Music Education, to read:
 - (3) A minimum grade-point average of 3.0 in the following music education courses: 266, <u>267</u>, 268, 269 and 161-168; and (4) etc.
- c. Change in Prerequisite, to read:

MUS **265.** Applied Keyboard Skills. 2 hr.; 1cr. Prereq.: Music <u>267 and</u> 373.

d. Change in Prerequisite, to read:

MUS **266. Vocal Pedagogy.** 3 hr.; 2 cr.: Prereq.: Music 166 <u>and 267</u>, or permission of department.

e. Change in Prerequisite, to read:

MUS **268.** The School Choral Program. 3 hr.; 3 cr. Prereq.: Completion of Music 166, <u>267</u> and 270.

f. Change in Prerequisite, to read:

MUS **269.** The School Instrumental Program. 3 hr.; 3 cr. Prereq.: Completion of Music <u>267</u>, 270 and at least 3 of the 5 group instruction courses in the instruments (i.e. Music 161, 162, 163, 167, and 168).

MORE

g. Change in Prerequisite, to read:

MUS **367. Seminar in the Teaching of Music.** 3 hr. participation and observation one morning or afternoon per week (total 45 clock hours) and 4 class hr. (the class will be divided between elementary and secondary) Prereq.: EECE 310, SEYS 221 and <u>Music 267</u>.

h. Change in Prerequisite, to read:

MUS **368. Special Topics in Music Education.** 3 hr.; 3 cr. Prereq.: Music <u>267</u>, 268, 269, or permission of the department.

i. Change in Prerequisite, to read:

MUS **369. Student Teaching in Music.** 16 hr.; 6 cr. Prereq.: (a) <u>Music 267, (b)</u> a minimum 2.7 GPA in music major courses exclusive of electives and major ensembles, and <u>(c)</u> a minimum grade of B in Music 367.

j. Change in Prerequisite, to read:

MUS 161. Group Instruction in Upper Strings. 3 hr.; 1 cr. Prereq.: Music 171,173 and 267.

k. Change in Prerequisite, to read:

MUS **162.** Group Instruction in Lower Strings. 3 hr.; 1 cr. Prereq.: Music 171,173 and 267.

1. Change in Prerequisite, to read:

MUS 163. Group Instruction in Woodwinds. 3 hr.; 1 cr. Prereq.: Music 171, 173 and 267.

m. Change in Prerequisite, to read:

MUS **166.** Group Instruction in Voice. 3 hr.; 1 cr. Prereq.: Music 171, 173 and 267, or permission of department..

n. Change in Prerequisite, to read:

MUS 167. Group Instruction in Brass. 3 hr.; 1 cr. Prereq.: Music 171, 173 and 267.

o. Change in Prerequisite, to read:

MUS 168. Group Instruction in Percussion. 3 hr.; 1 cr. Prereq.: Music 171, 173 and 267.

MORE

5.b. continued

3. Hispanic Languages and Literatures (05-04)

a. New course.

SPAN 371. Avant-Garde Movements in Latin America:

3 hours, 3 credits.

Prerequisite: SPAN 240 and SPAN 290 or permission of the department.

The period following the Modernist movement (1896-1905) in Latin America, until the 1940s. It concentrates on the originality that marks each writer's style, as seen in their individual manifestos. Analysis of the writers' initial reactions to sentimental irony (Ezequiel Martínez Estrada), to the innovations of *prosaísmo* (Evaristo Carriego), and *ultraísmo* (Jorge L. Borges). Women writers (Gabriela Mistral, Delmira Agustini, Alfonsina Storni, and Juana de Ibarbourou) are highlighted for their thematic and stylistic freedom. Other authors to be studied in this course are: Ricardo Güiraldes, Mariano Brull, Oliverio Girondo, Luis Palés Matos, Nicolás Guillén, Vicente Huidobro, César Vallejo, and Pablo Neruda.

b. New course.

SPAN 373. Native Peoples, Slaves and Campesinos in Latin America:

3 hours, 3 credits.

Prerequisites SPAN 240 and SPAN 270 or SPAN 280 or permission of the department.

The written representation of marginalized groups – who often constitute majority populations – in Latin American literature. The course begins with the period of conquest and colonization and continues through present times. Readings include fiction and non-fiction: chronicles, novels and short stories, testimonial narratives.

4. Family, Nutrition and Exercise Sciences (05-05)

a. New Course

FNES 347. Families and Cross-Cultural Perspectives. 3 hr.; 3 cr. Prereq.: FNES 147. An overview of family dynamics (marital relations, gender roles, parenting) in different cultures. Examination of childhood development and patterns of socialization from cross-cultural perspectives.

xiii. MOTION: Duly made and passed:

"To adopt the recommendations of the Undergraduate Curriculum Committee dated February 24, 2005."

See Attachment A.

6. MOTION: Duly made, seconded and passed:

"To adjourn."

The meeting was adjourned at 5:07 p.m. The next Regular Academic Senate meeting will be held on Thursday, April 14, 2005.