## MINUTES OF THE ACADEMIC SENATE OF QUEENS COLLEGE APRIL 16, 2015 Kiely Hall, room 170

#### The meeting will come to order:

Chair Manuel Sanudo called the meeting to order at 3:46 p.m.

#### 1. Approval of Agenda

i. MOTION: Duly made by Chair Sanudo and seconded:

"To approve the Agenda"

ii. MOTION: Duly made by Jennifer Fernandez, Deputy Chair:

"To amend the Agenda and add Item #7b." [CAP]

Hearing no objection to the motion, Chair Sanudo moved unanimous consent.

iii. MOTION: Duly made by Chair Sanudo:

"To accept the Agenda as amended"

Hearing no objection the Chair moved unanimous consent.

#### 2. Approval of Minutes:

MOTION: Duly made by Chair Sanudo and seconded:

"To approve the minutes dated March 12, 2015"

Hearing no objection to the motion, the minutes were approved as distributed.

#### 3. Announcements, Administrative Reports, and Memorials:

- 1. Senator Meghan Healey, Drama Theatre and Dance announced the opening performance of Pierre Corneille's "The Liar" in Rathaus Hall room M11. Performances begin on April 16 thru April 26. Student tickets are \$5.00 and faculty tickets are \$10.00. All tickets can be purchased at the Kupferberg Center box office.
- 2. Senator Dean Savage, Acting Chair of Social Science announced Course Evaluation season is upon us and he stressed the importance of the evaluations for faculty tenure and promotion decisions. He encouraged the faculty to remind their students and all students to remind fellow students to fill out the Course Evaluation on line.
- 3. Dr. Steven Schwarz, Associate Provost announced Dr. Debra Klinman, Vice President, Middle States Commission on Higher Education, will lead an Open Forum to discuss the Middle States Self-Study Process. The event is at free hour on Wednesday, May 6th in President's Conference Room #2, Rosenthal Library. Students are still needed to serve on groups that are assessing the College; anyone interested can call the Provost office.

(3. Announcements, Administrative Reports, and Memorials continued)

1. Chair Sanudo announced that the Academic Senate committees are always in need of students and faculty especially the International Student Affairs Committee which requires fee code 4 students.

## 3a. Guest Speaker-Cynthia W. Rountree, Esq., Chief Diversity Officer & Director /Title IX Coordinator

Chair Sanudo introduced our guest speaker, Cynthia W. Rountree, Esq., Ms. Rountree started with a power point presentation highlighting some of the new provisions or revised provisions of the University's policy on sexual misconduct, which was implemented on January 1, 2015. The policy book clearly defines behavior which constitutes sexual misconduct and *what is and what is not acceptable*. The University divides employees into 3 categories as defined by the policy book<sup>1</sup>: the first category are employees that are "*encouraged*" to report sexual misconduct; the second category are "responsible" employees and they are "*required*" to report sexual misconduct to the Chief Diversity Office/Title IX Coordinator; the last category includes everyone else that is "*encouraged but not required*" to report sexual misconduct. All incidents should be reported as soon as possible to the Chief Diversity Officer & Director /Title IX Coordinator after the incident occurs. Policy books on "CUNY Policy on Sexual Misconduct" and "CUNY Policy on Equal Opportunity and Non-Discrimination" are available at the front of the room. Ms. Rountree answered questions from the senators.

4. Special Motion (None)

## 5. Committee Reports

#### 5a. Undergraduate Curriculum Committee

MOTION: Duly made by Senator Kenneth Lord, Chair of the UCC:

"To accept the Undergraduate Curriculum Committee Minutes dated March 12, 2015"

Hearing no objection to the motion, Senator Kenneth Lord moved unanimous consent.

#### A. General Education

Numbered proposals available for review at senate.qc.cuny.edu/curriculum

- 1. General Education Advisory Committee
  - #405. ARTH 113. Survey of Modern Art. (WCGI)
  - #756. ENGL 352. The American Novel to 1918. (LIT)
  - #757. ENGL 358. Nineteenth-Century American Transcendentalism. (LIT)
  - #759. ENGL 350: Topics in Early American Literature. (LIT)
  - #758. ENGL 359. Regionalism, Realism, and Naturalism in American Literature. LIT)
  - #760. ENGL 312. Medieval Literature, 1100-1500. (LIT)
  - #761. ENGL 320: Literature of the English Renaissance. (LIT)
  - #762. ENGL 321. Literature of the Seventeenth Century. (LIT)
  - #763. ENGL 322. Literature of the Restoration and Eighteenth Century. (LIT)
  - #764. ENGL 330. Chaucer: The Early Works. (LIT)
  - #765. ENGL 331: Chaucer: The Canterbury Tales. (LIT)
  - #766. ENGL 332. Shakespeare I. (LIT)
  - #767. ENGL 333: Shakespeare II. (LIT)

<sup>&</sup>lt;sup>1</sup> CUNY Policy on Sexual Misconduct (pg.8-9)

(5a. UCC continued)

- #768. ENGL 334. Milton. (LIT)
- #769. ENGL 344. The English Novel I. (LIT)
- #770. ENGL 340. English Drama from Its Beginnings to 1642. (LIT)
- #771. ENGL 354: African-American Literature I (1619-1930). (LIT)
- #772. ENGL 355. African-American Literature II (1930 to the Present). (LIT)
- #773. ENGL 356: Literature of the American Indians. (LIT)
- #774. ENGL 360: Topics in Latino/Latina Literature in English. (LIT)
- #775. ENGL 363. Studies in Global Literatures in English. (LIT)
- #776. ENGL 364. Studies in African Drama, Film, and Literature. (LIT)
- #777. ENGL 366: Introduction to Irish Literature. (LIT)
- #778. ENGL 367. Modern Irish Literature. (LIT)
- #779. ENGL 368W: Irish Writers. (LIT)
- #781. ENGL 377. Modern South Asian Literature. (LIT)
- #782. ENGL 378. Topics in Caribbean Literature. (LIT)
- #783. ENGL 379: Topics in Transnational/Postcolonial Literature. (LIT)
- #784. ENGL 157. Great Works of Global Literatures in English. (WCGI)
- #787. ENGL 157: Great Works of Global Literatures in English. (LIT)
- #796. PORT 203. Intermediate Portuguese I. (WCGI)
- #802. SPAN 260: Survey of Spanish Literature 2. (WCGI)
- #804. SPAN 290: Survey of Spanish American Literature II. (WCGI)
- 2. Mathematics and Quantitative Reasoning Advisory Committee *No report.*
- 3. Writing Intensive Advisory Committee. *No report.*
- 4. STEM variant courses. *None.*

# B. Curriculum Changes

#### 1. FNES

a. Change to a Major: BS Physical Education (PHYSED-BS)

Required courses in Physical Education include: FNES 10, FNES 12 (taken 4 times), 13, 14 (taken twice), 212, 214, and 143, 146, 160, 161W, 230, 235, 253, 266, 311, 342, 343, 369, 379, and 381; SEYS 201W, 221, and 350; either SEYS 340 or EECE 340, EECE 310; <u>BIO 40, BIO 41</u> and one statistics course (PSYCH 107 or SOC 205)

#### 2. SEES

a. Change in description

To Read:

ENSCI 395, 396, 397. Internship in Environmental Science.

Prereq.: Advanced standing and permission of the department. ENSCI 395, 45 hr. placement; 1 cr. ENSCI 396, 90 hr. placement; 2 cr. ENSCI 397, 135 hr. placement; 3 cr. The student completes a 15-week internship directly related to the environmental sciences at a private company, government agency, or non-profit institution under the supervision of a SEES

(5a. UCC continued)

faculty member. Credits are based on the number of weekly internship hours. This course may be repeated for a maximum of 6 credits. However, if repeated, each of the internships must be unique. Only 3 credits from an internship may be applied to the ENSCI major or minor requirement.

# 3. FNES

a. Change to Course Name and Description

To Read:

FNES 337 Nutrition Counseling and Education.

3 hr.; 3 cr. Prereq.: FNES 263.

An overview of nutrition education <u>and counseling</u>, introduces nutrition students to learning and <u>behavior change theories</u>, and practice in applying and evaluating techniques to support behavior <u>change</u>. Fall, Spring

b. Change to Course Name and Description

## To Read:

FNES 365. Nutrition Assessment. 3 hr.; 3 cr. Coreq.: CHEM 103.1 and 103.3 and <u>FNES 264</u>. Introduction to nutrition assessment and other components of medical nutrition therapy. Fall, <u>Spring</u>

# 4. Sociology

a. Change in hours and description.

To Read:

SOC 212W. Sociological Analysis. <u>6 hr.(lec/lab)</u>; 4 cr. Prereq.: SOC 101 or ANTH 101 or ECON 101 or FNES 106 or HSS 200 or PSCI 100 or PSCI 101 or PSYCH 101 or URBST 101. The relationship between sociological theory and data <u>through analysis of important social</u> phenomena and the understanding and communication of scientific findings about such phenomena. (SW)

b. Change in hours, credits, prerequisite, and description.

# To Read:

SOC 223. Introduction to Social Work Method 3 hr.; <u>3</u>cr. The basic theory and methods of social work.

# 5. MUSIC

a. Change in number, prereq and description.

# To Read:

MUSIC 347, 347W, <u>347H</u> Music History IV: Music from 1890 to the Present 3 hours, 3 cr. Prereq: Minimum grade of *C*- in MUSIC 346, or permission of the School of Music; prereq. or coreq.: MUSIC 373. <u>Additional prerequisites for MUSIC 347H: Minimum</u> grade of B+ in MUSIC 346; CORE Music GPA of 3.5 or higher and permission of the instructor, the musicology coordinator and the ACSM Honors Coordinator. prereq. or coreq.: <u>MUSIC 373. or permission of the School of Music;</u>

(5a. UCC continued)

As a final project, honors students will write a research paper. This paper will engage with relevant published research, and also include the students' own analytical insights into a specific composer as determined in consultation with the instructor. Honors students must achieve a minimum grade of B+ for this course to count toward the music major. Other students must achieve a minimum grade of C- for this course to count toward the music major. Fall, Spring

b. Change to number, prereq and description.

#### To Read:

MUSIC 366, <u>366H</u> Seminar in the Teaching of Music: Secondary 3 hours, 3 cr.

Prereq.: MUSIC 365 with a minimum grade of *B*; coreq.: EECE 340 or SEYS 340, and ECPSE 350. Additional prerequisites for 366H.: MUSIC 365 with a minimum grade of *B*+; a minimum of 3.5 in the academic music core; permission of the instructor and the ACSM Honors Coordinator.

In this course students will focus on curriculum, instruction, and assessment for teaching secondary general music, including music in middle schools. Students will learn about children's musical thinking from a developmental point of view. Students will learn and practice teaching strategies for supporting student learning as defined by city, state, and national standards for music education. Students will learn and practice strategies for teaching music from a multicultural perspective. There is an intensive field component to this class that allows students the opportunity to teach and then reflect on their experiences with children. Weekly observations are also required. Additionally students selecting the honors section of this class will research a topic of importance to the music education profession, write a 15 - 20 page synthesis paper and prepare a professional teaching demonstration on the topic to be presented to the music education faculty and other interested persons no later than the last week of classes in the semester this class is taken. Honors students must achieve a minimum grade of B+ for this course to count toward the music major. Other students must pass this course with a grade of B or higher to be allowed to student teach.

#### c. Change in number, prereq, description.

#### To Read:

MUSIC 377, <u>377H</u>. Musical Form and Analysis.

3 hr.; 3 cr. Prereq.: MUSIC 373; pre- or coreq.: MUSIC 374. <u>Additional prerequisites for MUSIC</u> 377H: CORE Music GPA of 3.5 or higher and permission of the theory coordinator and the <u>ACSM Honors Coordinator</u>.

An intensive study of musical forms and genres from ca.1700 to ca. 1950, including both instrumental and vocal music. Primary emphasis is on standard formal types associated with music of the eighteenth century. Adaptations of these forms by nineteenth- and early twentieth-century composers will also be covered. As a final project, honors students will write a research paper. This paper will engage with relevant published research, and also include the students' own analytical insights into either one composition or group of related compositions as determined in consultation with the instructor. Students must achieve a minimum grade of B in MUSIC 377H for the course to be counted toward the music major. Other students must achieve a minimum grade of *C*- in MUSIC 377 for the course to count toward the music major. (Capstone) Fall, Spring

#### d. Change in number, prerequisite and description.

#### To Read:

MUSIC 452, 452H. Major Study in Performance VIII.

1 hr, 3 cr. Prereq.: MUSIC 451 <u>Additional Prerequisites for MUSIC452H: Eligibility for Music</u> 452H is determined on the basis of progress evaluations during a student's sophomore or junior year and Minimum grade of B+ in MUSIC 451; CORE Music GPA of 3.5 or higher ; and permission of the instructor and the ACSM Honors Coordinator. For MUSIC 452H ONLY Preparation and presentation of a significant performance, to be approved by the instructor (in consultation with the ACSM honors advisor), are required for this course. Examples may include performances as major role soloist with an ACSM ensemble or a full-length recital. Note that your regular degree recital may not be used to fulfill this requirement.

e. Change in hours.

To Read:

MUSIC 68. Balinese Gamelan Ensemble. <u>2 hr.</u>; 1 cr. Prereq.: Permission of the instructor. An introduction to traditional and contemporary Balinese music through practice and performance on traditional instruments. Weekly rehearsals lead to one or more concerts. Instruments and practice space are provided. May be repeated for credit. Fall, Spring

# 6. Courses taken off Reserve and returned to Active Status None

- 7. Courses Put on Reserve *None.*
- 8. Courses Withdrawn None

#### C. Policy Changes

#### **5b. Graduate Curriculum Committee**

MOTION: Duly made by Professor Richard Bodnar, Dean of Research and Graduate Studies:

"To accept the Graduate Curriculum Committee Minutes dated March 11, 2015"

Hearing no objection to the motion, Professor Richard Bodnar moved unanimous consent.

#### 1. Economics.

a. New course.

#### ECON 630 Engineering Economics

3hr., 3cr.; *Prerequisites or corequisites:* Math 201 or permission of the department This course deals with the application of economic models to the evaluation of engineering projects from a financial perspective. The students are exposed to the fundamentals of investment decision-making using the theory of corporate finance. The course is designed for students in STEM disciplines interested in understanding the process of financial decision making as it relates to engineering projects. This course is open to graduate and qualified undergraduate students majoring in STEM fields with the permission of the instructor.

#### 2. Music

a. Change in title, prerequisite and description.

To Read:

Music 702. Critical and Theoretical Approaches to <u>Music Scholarship.</u> 3 hr., 3 cr. Prereq.: MUSIC 700, Bibliography and Research Techniques, <u>or permission of</u> <u>the department</u>. The course is intended for MA students in their second semester of residence. Students will gain familiarity with critical and interdisciplinary <u>literature in musicology and music theory</u>, focusing on scholarship since 1980. Assessment will be based on research, readings, and written assignments. <u>May</u> <u>be repeated once for credit if the topic changes.</u>

#### 3. Physics

a. Change in hours and credits.

To Read:

PHYS 798, Thesis. 4 hr.; 4 cr.

b. Change in hours and credits.

To Read:

PHYS 622, Physics of lasers. 4 hr.; 4 cr.

#### 4. Music

a. Course withdrawn.

MUSIC 788. Jazz Piano Workshop. 2 hr. 2 cr. Prereq.: Permission of the instructor. Keyboard skills and jazz harmony. Chords and chord orchestration, primary cadences, chord scales and other melodic/ harmonic resources.

#### 5. Physics

a. New Course.

PHYSICS 507 Physics of Music and Sound 3 hours, 3 credits; *Prerequisites or corequisites:* None This course is designed for liberal arts majors with an interest in understanding the principles behind the production of music and sound. Topics include origins and the nature of sound waves, hearing, harmonics, temperament, musical instruments, and other selected topics. Demonstrations are used extensively to illustrate pertinent concepts. This course emphasizes conceptual understanding rather than computation or problem solving. No knowledge of physics or music theory is required.

(5b. GCC continued)

#### 6. Physics

a. Change in degree requirements.

To Read:

- 1. Total minimum number of credits required to complete the program 43.
- 2. The following courses are required of all candidates for the MS in Photonics.

PHYS 626 Applied Quantum Mechanics 4 credits PHYS 616 Applied Electrodynamics 4 credits PHYS 637 Modern Optics 4 credits PHYS 672 Photonics Laboratory 2 credits PHYS 661 Computational Methods in Physics 4 credits PHYS 621 Optoelectronics 3 credits PHYS 646 Physics of Semiconductors 4 credits PHYS 620 Research and Writing in Physical Disciplines 3 credits ECON 630 Engineering Economics 3 credits

Total required credits: 31

Students with sufficient undergraduate background in quantum mechanics can test out of this course and instead take one of the elective courses bearing the same (4) number of credits. The proficiency exam in Quantum Mechanics will be given during the week before the start of the fall semester. The exact date and place of the exam will be posted on the department's website.

3. Students must select one of the elective laboratory courses: PHYS 671 Modern Physics Laboratory 2 credits PHYS 673 Microwave instrumentation laboratory\* 2 credits PHYS 771, 772,773 Graduate Laboratory (2 credits each, up to 6 credits)

Approval for new course PHYS 673 is pending

Minimum number of elective laboratory credits 2

4. MS in Photonics candidates must select one of the elective technology courses: PHYS 675 Intro to Nano and Microfabrication 4 credits PHYS 676 Foundation of Growth Techniques 4 credits PHYS 623 Principles of Telecommunications\* 4 credits PHYS 622 Physics of lasers 4 credits\*\*

\*Approval of the new course PHYS 623 is pending \*\*Approval of the change in the number of credits for PHYS 622 is pending

Minimum number of technology credits 4

5. Candidates for MS in Photonics who do not have a prior or current experience in relevant industries must take at least one industrial internship course for a minimum of 2 credits. Candidates who do have relevant industrial experience might substitute industrial internship for a different elective laboratory course. The relevance of the work experience is determined by the department.

Minimum number of internship credits 2

<u>6. Candidates for MS in Photonics must complete and defend a final project, which can be done working individually or in groups up to 3 students by registering in their final semester for the PHYS 798 Thesis course bearing 4 credits\*</u>

\*Approval of the change in the number of credits for PHYS 798 is pending

#### 7. Music

a. Change in title.

To Read:

MUSIC 772. The Art of Keyboard <u>Collaboration</u>. 2 hr.; 2 cr. Prereq.: Permission of the instructor. A course for advanced keyboard players in the accompanist's role in the performance of the vocal and instrumental repertory. Coaching in selected literature.

#### 8. Music

Change in the requirements for the MA degree.

To Read:

II. Track-specific courses (3–6 credits). The following courses are required in specific tracks:

Composition (6 credits): MUSIC 725, Composers' Workshop (1 cr. per semester), taken for 3 semesters MUSIC 785, Music since 1900 II (3 cr.)

Theory (6 credits): MUSIC 745, Introduction to Schenkerian Analysis (3 cr.) MUSIC 746, Introduction to Post-Tonal Theory (3 cr. each)

Musicology <u>and Theory</u> (3 credits): MUSIC 702, Critical and Theoretical Approaches to <u>Music Scholarship</u> (3 cr.)

#### 9. Media Studies

a. Change in title and credits.

To Read:

MEDST 790. Thesis. Hr. to be arranged. <u>3 cr.</u> Prereq.; Approval of program coordinator and Department Chair.

b. Change in title and description.

#### To Read:

MEDST 791. Thesis Research.

Hr. to be arranged. 3 cr. Guided independent research for students preparing the Masters Thesis. Approval of program coordinator and Department Chair.

(5b.GCC continued)

## 10. Physics

# Change or Adapt a Registered Program

Use the <u>Request to Change or Adapt a Registered Program</u> form to request program changes that require approval by the State Education Department (see chart).<sup>2</sup> For **programs that are registered jointly** with another institution, all participating institutions must confirm support for the changes.

#### Exceptions:

- To change a registered professional licensure program or add a license qualification to an existing program, contact the <u>Office of the Professions</u> for guidance.
- To change a registered teacher certification or educational leadership certification program or add a certificate qualification to an existing program, use the education program change form.

## **Changes and Adaptations Requiring State Education Department Approval**

# Changes in Program Content (all programs)

- 1. Any of the following substantive changes:
  - Cumulative change from the Department's last approval of the registered program of one-third or more of the minimum credits required for the award (e.g., 20 credits in an associate degree program)
  - Changes in the program's focus or design (e.g., eliminating management courses in a business administration program), including a change in the program's major disciplinary area
  - Adding or eliminating an option or concentration
  - Eliminating a requirement for completion, including an internship, clinical, cooperative education, or other workbased experience
  - Altering the liberal arts and science content in a way that changes the degree classification, as defined in Section 3.47(c)(1-4) of <u>Regents Rules</u>

#### Other Changes (all programs)

- 2. Program title
- 3. Program award (e.g., change in degree)
- 4. Mode of delivery (**Note**: if the change involves adding a **distance education format** to a registered program, please complete the <u>distance education application</u>.)
- 5. Discontinuing a program
- 6. A format change that alters the program's financial aid eligibility (e.g., from full-time to part-time, or to an abbreviated or accelerated semester)
- 7. A change in the total number of credits of any certificate or advanced certificate program

<sup>&</sup>lt;sup>2</sup> CUNY and SUNY institutions: contact System Administration for guidance.

#### **Changes and Adaptations Requiring State Education Department Approval**

# **Establishing New Programs Based on Existing Registered Programs**

ting a dual-degree program from existing registered programs

#### PLEASE NOTE:

Establishing an existing program at a new location requires new registration of the program. If the requested action changes the program's major disciplinary area, master plan amendment may be needed if the revised program represents the institution's first program in that major subject area, at that degree level. If a requested **degree title** is not authorized for an institution chartered by the Board of Regents, charter amendment will be needed.

NEW YORK STATE EDUCATION DEPARTMENT Office of Higher Education—Office of College and University Evaluation 89 Washington Avenue, Albany, NY 12234 (518) 474-2593 Fax: (518) 486-2779 ocueinfo@mail.nysed.gov http://www.highered.nysed.gov/ocue/

	Request to Change or Adapt a Registered Program		
Item	<b>Response</b> (type in the requested information)		
Institution name and address	<ul> <li>Queens College, 65-30 Kissena Blvd, Flushing, NY 11367</li> <li><i>Additional information</i>:</li> <li>Specify campus where program is offered, if other than the main campus:</li> </ul>		
Identify the program you wish to change	Program title: Photonics Award (e.g., B.A., M.S.):M.S. Credits: 43 HEGIS code: 1902.00 Program code:PHOTO-MS		
Contact person for this proposal	Name and title: Professor Lev DeychTelephone:718-997-3380Fax:E-mail:		
CEO (or designee) approval	Name and title: Signature and date:		
Signature affirms the institution's commitment to support the program as revised.	If the program will be registered jointly <sup>3</sup> with another institution, provide the following information: Partner institution's name:		

<sup>&</sup>lt;sup>3</sup> If the partner institution is non-degree-granting, see CEO Memo 94-04 at <u>www.highered.nysed.gov/ocue/ceo94-04.htm</u>.

Name and title of partner institution's CEO:

Signature of partner institution's CEO:

- For **programs that are registered jointly** with another institution, all participating institutions must confirm their support of the changes.
- To change a registered professional licensure program or add a license qualification to an existing program, contact the <u>Office of the Professions</u> for guidance.
- To change a registered teacher certification or educational leadership certification program or add a certificate qualification to an existing program, use the education program change form.
- If the change involves establishing an existing registered program at a new location, complete a new registration application for the proposed program.

# Check all changes that apply and provide the requested information.

Changes in Program Content (Describe and explain all proposed changes; provide a side-by-side comparison of the existing and newly modified programs.)

[x] Cumulative change from the Department's last approval of the registered program that impacts one-third or more of the minimum credits required for the award (e.g., 20 credits in an associate degree program)

- [x] Changes in a program's focus or design
- [] Adding or eliminating an option or concentration
- [] Eliminating a requirement for program completion

[] Altering the liberal arts and science content in a way that changes the degree classification, as defined in Section 3.47(c)(1-4) of <u>Regents Rules</u>

If new courses are being added as part of the noted change(s), provide a syllabus for each new course and list the name, qualifications, and relevant experience of faculty teaching the course(s). Syllabi should include a course description and identify course credit, objectives, topics, student outcomes, texts/resources, and the basis for determining grades.

The existing requirements for the program read as:

1. All MS in photonics candidates must complete 43 credits of course work including a two-month-long summer internship.

2. All MS in photonics candidates must complete and defend a final team project.

3. The following courses are required of all MS in photonics candidates

PHYS 625 Quantum Mechanics 4 credits

PHYS 615 Electromagnetic Theory 4 credits

PHYS 671 Modern Physics Laboratory 2 credits

PHYS 637 Modern Optics 4 credits

PHYS 672 Modern Physics Laboratory 2 credits

PHYS 675 Intro to Nano and Microfabrication 4 credits

PHYS 621 Optoelectronics 3 credits

PHYS 676 Foundation of Growth Techniques 4 credits

PHYS 661 Computer Simulations of Physical Models 4 credits

PHYS 635 Condensed Matter Physics 4 credits

# PHYS 620 Research and Writing in Physical Disciplines 3 credits

ECON 630 Network Economics 3 credits

The new requirements must read as:

1. Total minimum number of credits required to complete the program 43.

2. The following courses are required of all candidates for the MS in Photonics. .

PHYS 626 Applied Quantum Mechanics\* 4 credits
PHYS 616 Applied Electrodynamics 4 credits
PHYS 637 Modern Optics 4 credits
PHYS 672 Photonics Laboratory 2 credits
PHYS 661 Computational Methods in Physics 4 credits
PHYS 621 Optoelectronics 3 credits
PHYS 646 Physics of Semiconductors 4 credits
PHYS 620 Research and Writing in Physical Disciplines 3 credits
ECON 630 Engineering Economics 3 credits
Total required credits: 31

\*Students with sufficient undergraduate background in quantum mechanics can test out of this course and instead take one of the elective courses bearing the same (4) number of credits. The proficiency exam in Quantum Mechanics will be given during the week before the start of the fall semester. The exact date and place of the exam will be posted on the department's website.

3. Students must select one of the elective laboratory courses:

PHYS 671 Modern Physics Laboratory 2 credits
PHYS 673 Microwave instrumentation laboratory 2 credits\*
PHYS 771, 772,773 Graduate Laboratory (2 credits each, up to 6 credits)
\*Approval of the new course PHYS 673 is pending
Minimum number of elective laboratory credits 2
4. MS in Photonics candidates must select one of the elective technology courses:
PHYS 675 Intro to Nano and Microfabrication 4 credits
PHYS 676 Foundation of Growth Techniques 4 credits
PHYS 623 Principles of Telecommunications 4 credits\*
PHYS 622 Physics of lasers 4 credits\*\*
\*Approval of the new course PHYS 623 is pending
\*\*Approval of the change in the number of credits for PHYS 622 is pending
Minimum number of technology credits 4

5. Candidates for the MS in Photonics who do not have a prior or current experience in relevant industries must take at least one industrial internship course for a minimum of 2 credits. Candidates who do have relevant industrial experience might substitute industrial internship for a different elective laboratory course. The relevance of the work experience will be determined by the department.

Minimum number of internship credits 2

6. Candidates for the MS in Photonics must complete and defend a final project, which can be done working individually or in groups of up to 3 students by registering in their final semester for the PHYS 798 Thesis course

bearing 4 credits\*

\*Approval of the change in the number of credits for PHYS 798 is pending

- [] Program title
- [] Program award

[] **Mode of Delivery** (**Note**: if the change involves adding a **distance education format** to a registered program, please complete the <u>distance education application</u>.)

[] **Discontinuing a program**: indicate the date by which the program will be discontinued.<sup>4</sup>

[] Format change (e.g., from full-time to part-time, or to an abbreviated or accelerated semester)

- a) Indicate proposed format:
- b) Describe availability of courses and any change in faculty, resources, or support services:
- c) Use the Sample Program Schedule to show the sequencing and scheduling of courses in the program.

# Establishing New Programs Based on Existing Registered Programs

[] Creating a dual-degree program from existing registered programs

a) Complete the following table to identify the existing programs:

	Program Title	Degree Award	Program Code
Program 1			
Program 2			

- b) Proposed dual-degree program (title and award):<sup>5</sup>
- c) Courses that will be counted toward both awards:
- d) Length of time for candidates to complete the proposed program:
- e) Use the Sample Program Schedule to show the sequencing and scheduling of courses in the dual-degree program.

<sup>&</sup>lt;sup>4</sup> If any students do not complete the program by the proposed termination date, the institution must request an extension of the registration period for the program or make other arrangements for those students.

 $<sup>^5</sup>$  Only candidates with the capacity to complete the requirements of both degrees shall be admitted to a dual-degree program.

# [] Creating a new program from a concentration/track in an existing program.

If the new program is based *entirely* on existing courses in a registered program, provide the current program name, program code, and the following information:

**Note**: this abbreviated option applies only if a master plan amendment is NOT required *and* there are no new courses or changes to program admissions and evaluation elements. If these conditions are not met, submit a new registration application for the proposed program.

- a) Information from the Application for Registration of a New Program\_form: cover page (page 1), Sample Program Schedule form, and faculty information charts (full-time faculty, part-time faculty, and faculty to be hired)
- b) Brief description of the proposed program and rationale for converting the existing coursework to a separately registered program:
- c) Expected impact on existing program:
- d) Adjustments the institution will make to its current resource allocations to support the program:
- e) Statement confirming that the admission standards and process and evaluation methods are the same as those in the existing registered program:

Note: if the change involves establishing an existing registered program at a new location, complete a new registration application for the proposed program. September 2009

# 5c. Nominating Committee

MOTION: Duly made by Professor Marian Fish, Chair of the Nominating Committee:

"To accept the Nominating Committee Report dated April 16, 2015"

Hearing no objection to the motion, Professor Fish moved unanimous consent

#### 1. College Committee on Honors and Awards

The following faculty members were elected by unanimous consent:

Hefer Bembenutty	Education	April, 2018
Madhulika Khandelwal	Social Science	April, 2018

#### 2. Special Committee on Governance

a) The follow faculty member was elected by unanimous consent:

Ken Lord April, 2017

b) The following student was elected by unanimous consent:

Phillip Tarantini	April, 2017
	p, <b>-</b> ,

# **Graduate Curriculum Committee** 3. The following student was elected by unanimous consent: Francesca Giampino Social Science December, 2016 4. Undergraduate Curriculum Committee The following student was elected by unanimous consent: Lucia Castellano M&NS December, 2016 6. Old Business (none) 7. New Business Academic Senate scheduled meeting dates – Fall 2015- Spring 2016 7a. MOTION: Duly made by Chair Sanudo:

"To accept the Academic Senate scheduled meeting dates for Fall 2015 and Spring 2016" Hearing no objection to the motion, the Chair moved unanimous consent.

# 7b. Committee on Athletic Policy Nominees for 2015-2016

MOTION: Duly made by Chair Sanudo:

"To accept the Committee on Athletic Policy 2015-2016 Nominees"

Hearing no objection to the motion, the Chair moved unanimous consent.

The following students were elected by unanimous consent.

Bridget Gleason, Altor Iriarte Gurrutxaga, Else Buchmiller

MOTION: Duly made by Parliamentarian Dave Fields seconded and passed:

#### "To Adjourn"

The meeting was adjourned at 4:47 pm. The next Special Academic Senate meeting is on Thursday, May 7, 2015.