

**QUEENSBOROUGH COMMUNITY COLLEGE**

The City University of New York

**ACADEMIC SENATE REPORT**

Telephone (718) 631-6056

**TO:** Kathleen Villani, Secretary, Academic Senate Steering Committee  
**FROM:** Frank Cotty, Chairperson, Committee on Curriculum  
**SUBJECT:** **Committee on Curriculum Annual Report 2005-2006**  
**DATE:** July 4, 2006  
**CC:** K. Steele, P. Pecorino, Archives (C. Williams)

---

**COMMITTEE MEMBERS 2005- 2006**

Cotty, F. (Biology) **Chairman**  
Karimi, S. (Social Sciences)  
Kolios, A. (Business)  
Rusinek, R. (Mathematics)  
Tully, N. (Nursing) **Secretary**  
Yuster, R. (ECET)  
Ex officio K. Steele (Administration)  
Pecorino, P. (Steering Committee Designee)

**MEETINGS**

The committee met 21 times during the 2005-2006 academic year:

9/6, 9/13, 9/20, 9/27, 10/18, 10/25, 11/ 15, 11/22, 11/29, 12/6, 12/13, 2/7, 2/14,  
2/28, 3/7, 3/21, 3/28, 4/4, 4/11, 5/2 and 5/16

**ACTIONS**

The committee revised the QCC computer literacy definition, originally written in 1980, to reflect contemporary understanding of the term. The chair of the committee distributed this definition to all department chairs for submission of courses in consideration of their meeting the Computer Literacy requirement for the Liberal Arts and Sciences Degree. Math and Computer Sciences and Electrical and Computer Engineering Technology Departments submitted courses. Both courses were accepted by the committee as meeting the new computer literacy definition. Since the M&CS and ECET courses were included in the existing degree program requirements no further action by the Academic Senate was required.

**Definition of Computer Literacy:**

Computer literacy is the ability to use computer skills in pursuit of education and in the workplace in an ethical and secure manner. At minimum, these skills should include: word processing, file management, internet research, e-mail, and proficiency in the application of software for presentation and research.

The student can demonstrate competency by completing a course in any academic discipline where these computer skills are applied as tools in learning, presentation, or

research. Assessment of student performance will take into account proficiency and integrity in the application of these skills.

**The committee took the following actions all adopted by the Academic Senate during the 2005-2006 academic year.**

**New Curriculum:**

Art and Photography Department

A.S. Gallery and Museum Studies

Biological Sciences and Geology Department and Business Department

A.A.S. Degree Program in Medical Office Assistant

**Program revisions**

Business Department:

Change in Programs:

A.A.S. in Accounting

A.S. in Business Administration

A.A.S. in Computer information Systems

Changes primarily reflect substitution of MA-260 for MA 240 and MA-250.

Department of Electrical and Computer Engineering Technology.

AAS Degree Telecommunications Technology: Verizon

Substitute new courses PC Essentials I and PC Essentials II (ET-531, 532)

for

Digital Computer Theory I and Microprocessors and Microcomputers

Change course titles to Networking Fundamentals I and Networking Fundamentals II from Networking Fundamentals I (Cisco CCNA I) and Networking Fundamentals II (Cisco CCNA II) (ET-704, 705)

A.A.S. Degree in Computer Engineering Technology

Delete ET-220 Electronics II

Delete ET-503 Introduction to Assembly Language Programming

Delete one ET elective credit

Add ET-542 Computer and Electrical Device Applications (new)

ET-509 C++ Programming for Embedded Systems

ET-704 Networking Fundamentals I

Delete ET-480 and 484 from list of electives

Add new course, ET-481 Personal Computer Technology, to list of electives

A.A.S. Degree in Electronic Engineering Technology  
Add new course, ET-481 Personal Computer Technology, Architecture and Troubleshooting, to list of Electives (4 credits total for electives) and delete ET-480 and 484 from the list of electives.

A.A.S. Degree in New Media Technology  
Add new course, ET-481 Personal Computer Technology, Architecture and Troubleshooting, to list of Electives (17 credits total for electives) and delete ET-480 and 484 from the list of electives.

Certificate in New Media Technology  
Add new course, ET-481 Personal Computer Technology, Architecture and Troubleshooting, to list of Electives (9 credits total for electives).

#### Department of Health Physical Education and Dance

Massage Therapy Program:

Grade Requirement: Students must achieve a grade of C or better in all BI and HA courses to progress to next level and to graduate with A.A.S. in Massage Therapy.

#### Department of Mechanical Engineering Technology and Design Drafting

Mechanical Engineering Technology: revised MT-900, remove MT-344 from this curriculum

#### Department of Social Sciences:

A.A. Degree Program in Childhood Education:

Expansion of courses accepted by QC to include: GE-101, SS-110 and AR-313

Require B or better in each of the two English courses: EN-101, EN-102

Include GE-101 as option for laboratory science requirement

Include SS-110 in both Social Sciences and Pre-Industrial/Non-Western Civilization requirements

Include AR-31 in both Humanities II and Pre-Industrial/Non-Western Civilization requirements

Remove SS-670.

### **New courses**

#### Art and Photography Department

AR-326 History of Asian Art

AR-801 Art Administration

AR-802 Art Conservation

AR-503 Art Curating

#### Business Department

BU-918 Medical Coding and Billing II

#### Chemistry Department:

CH-904, CH 905 Cooperative Education in Chemical Instrumental Analysis III

Electrical and Computer Engineering Technology Department

ET-481 Personal Computer Technology, Architecture and Troubleshooting  
ET-531 PC Essentials I  
ET-532 PC Essentials II  
ET-542 Computer and Electrical Device Applications

Department of Foreign Languages and Literatures

LC-311 Readings in Contemporary Chinese Literature

Math and Computer Science:

MA-260 Pre-calculus and Elements of Calculus for Business Students

**Course revisions**

Chemistry Department:

CH-902, 903 Cooperative Education in Chemical Instrumental Analysis II.  
Change in co-requisites from CH-251, 252 to CH-151, 152

Department of Electrical and Computer Engineering Technology

Change in Prerequisites: ET-560 Microprocessors and Microcomputers  
from ET-503 and ET-540 or ET-509 and ET-510  
to ET-509 and ET-510 or ET-540

Department of Health Physical Education and Dance:

HA-101, HA-102, HA-103, HA -104 and HA-220 changes of prerequisites to reflect need for achievement of C or better in prerequisite HA and BI courses.

Department of Mechanical Engineering Technology and Design Drafting:

From: MT- 900 Cooperative Education in Mechanical Engineering Technology and design drafting  
To: MT-900 Cooperative Education / Design Projects in Mechanical Engineering Technology and Design Drafting

**Course deletions**

Department of Electrical and Computer Engineering Technology

ET-480 Upgrading and Repairing PCs  
ET-484 A+ Certification

**Course title changes**

Business Department

From BU-916 Medical Coding and Billing  
To BU-916 Medical Coding and Billing I

Department of Electrical and Computer Engineering Technology

ET-704  
from Networking Fundamentals I (Cisco CCNA I)  
to Networking Fundamentals I

ET 705  
from Networking Fundamentals II Cisco CCNA I)  
to Networking Fundamentals II

**The following actions were approved by the committee and are recommended for approval by the Academic Senate September 13, 2006.**

## **NEW COURSES**

### Physics Department

#### PH-229 Introduction to Photonics

2 class hours, 1 recitation hour, 3 laboratory hours, 4 credits

Co-requisite: MA114 Technical Mathematics

#### Course description:

Topics in optics related to lasers and optical fiber and devices for modulating and directing signals from such devices. Students will study geometrical optics with emphasis on ray tracing and the application to lenses (thick and thin), mirrors, prisms and other passive optical elements and systems. Students will study the propagation of light in materials and dispersion and its effects. Additional topics will include an introduction to lasers and fiber-optics, including an introduction to the propagation of light through fibers. Laboratory exercises complement class work.

#### Rationale:

This course is required (along with PH-230) as part of two course sequence that will replace PH-231 for some students in the Laser and Fiber Optics Engineering Technology Program (LFOT). Initially this course will be offered at high schools allowing students to enter QCC with credit towards a degree in LFOT. This sequence is also a possible alternative for students who lack confidence in their skill in mathematics by postponing the more mathematically advanced topics for one semester, until after they have completed MA-114.

The course will be offered once a year at the high schools (currently Franklin K. Lane and Queens Vocational). Initially the course will not be offered at QCC.

#### PH-230 Matrix Optics and Aberrations

1 lecture hour and 1 recitation/lab hour, 1 credit

Prerequisite: PH-229

#### Course description:

Topics in matrix optics applied to geometric (ray) optics including beam propagation, thin and thick lenses and lens systems. Introduction to aberrations in optical systems, how they are formed and controlled.

#### Rationale:

Combined with PH-229 this course will meet the requirement of PH-231 for Laser and Fiber Optics Engineering Technology students. This course will allow students to take PH-229 while in high school (encouraging them to continue their studies at

Queensborough) and then complete the rest of the content required in PH-231 by taking one one-credit course at QCC.

Once PH-229 is being offered, the Department will propose a revision in the LFOET curriculum stating that PH-229 and 230 may be substituted for PH-231 (similar to the existing substitutions of PH-310, 302 or PH-411, 412, 413 for PH-201, 202).

## **COURSE REVISIONS**

### **Foreign Languages and Literature**

Proposed course revision pre-requisite changes for LG-811 and LG-812:

From:

LG-811 German Literature in Translation I  
Conducted in English. 3 class hours 3 credits  
Elective credit only.  
Not credited toward the language requirement.  
Prerequisite: [EN-102].

To:

LG-811 German Literature in Translation I  
Conducted in English. 3 class hours 3 credits  
Not credited toward the language requirement. Elective credit only.  
prerequisite: EN-101

From:

LG-812 German Literature in Translation II  
Conducted in English. 3 class hours 3 credits  
Elective credit only.  
Not credited toward the language requirement.  
Prerequisite: [EN-102].

To:

LG-812 German Literature in Translation II  
Conducted in English. 3 class hours 3 credits  
Elective credit only.  
Not credited toward the language requirement.  
Prerequisite: EN-101

## **OTHER MATTERS**

Committee members now have access to all Committee on Curriculum documents through Blackboard.

## **RECOMMENDATIONS AND PENDING ITEMS FOR 2006-2007**

- 1) Proactive items to be addressed:
  - The manner in which curriculum planning/approval will take place for BE at QCC;
  - Review of the effectiveness of QCC Remediation programs:
    - BE classes and the preparation to enter EN 101 and other classes that have BE as a pre or co requisite
- 2) Review of the Assessment of courses

## **COMMITTEE MEMBERS 2006-2007**

Cotty, F. (Biology) **Chair**  
Iconis, R. (Health, Physical Education and Dance)  
Karimi, S. (Chemistry)  
Kolios, A. ( Business)  
Tai, E. (History) **Secretary**  
Tully, N. (Nursing)  
Yuster, R. (ECET)  
Ex officio K. Steele (Administration)  
(Liaison Committee on Committees)