

QUEENSBOROUGH COMMUNITY COLLEGE
CITY UNIVERSITY OF NEW YORK
ACADEMIC SENATE REPORT

FROM: Frank Cotty, Chair, Committee on Curriculum
TO: K. Villani, Secretary, Academic Senate Steering Committee
CC: P. Pecorino, Dean K. Steele, College Archives (C. Williams)
DATE: September 20, 2006
SUBJECT: Monthly Report for October 2006

The Curriculum Committee recommends the following for adoption by the Academic Senate:

COURSE REVISIONS

Foreign Languages and Literature

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

Rationale: These courses are electives in Humanities for an Associate of Art degree; they also fulfill the college WI requirement.

Both courses are good candidates to be offered as a learning community with EN102. But with EN102 as pre-requisite it is not possible to offer such a learning community. LI-813 "Masterpieces of Italian Literature" already has EN 101 as its prerequisite and it is in the same level as LG811.

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).