

QUEENSBOROUGH COMMUNITY COLLEGE
CITY UNIVERSITY OF NEW YORK
ACADEMIC SENATE REPORT

FROM: Frank Cotty, Chair, Committee on Curriculum
TO: E. Tai, Secretary, Academic Senate Steering Committee
CC: P. Pecorino, Dean K. Steele, College Archives (C.Williams)
DATE: March 28, 2006
SUBJECT: Monthly Report for April 2006

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

NEW COURSES

ECET:

The following two new courses are proposed to replace ET-540, Digital Computers and ET-560, Microcomputers and Microprocessors, in the A.A.S. Degree Program in Telecommunications Technology: Verizon.

Note: ET-540 and 560 will still remain part of other ECET Department Curricula.

ET-531 PC Essentials I

3-Hours Lecture, 3-Hours Laboratory, 4-Credits

Prerequisite: MA-114, College Algebra and Trigonometry for Technical Students

Course description: This course presents topics in digital hardware and PC computer systems. Binary numbers systems are discussed and electrical and digital circuits are explored. Students will explore PC computer hardware at the modular level. They will perform system upgrades, diagnose system failures, and make repairs.

ET-532 PC Essentials II

3-Hours Lecture, 3-Hours Laboratory, 4-Credits

Prerequisite: ET-531, PC Essentials I

Course description: This course presents topics in the installation, setup and management of the PC Operating System. Included are: software setup, maintenance and installation of applications; use of software utilities in the PC environment. Software troubleshooting of the operating system and software applications.

Rationale for ET-531 and 532:

Verizon has requested that the Next Step Program revise its curriculum to support its new initiative to install fiber optic cable to every home and business in the United States within the next five years. As part of this initiative, Verizon will be offering voice, Internet, and video service to all of its subscribers. Verizon would like to see a greater emphasis on PC related skills as well as some topical changes in the telecommunications courses.

The 26 member Colleges of the Next Step Program have been meeting with Verizon for the past year to discuss and recommend changes to the Next Step Curriculum. On January 11, 2006 the Next Step consortium of colleges approved changes in the course sequence, the replacement of the two Digital Courses with two new PC related courses, and a number of small revisions to the course outlines of the four courses in the Telecommunications sequence.

The Next Step Program Faculty Team has significantly changed the content its Digital I and II Courses in the state registered Telecommunications Technology A.A.S. Degree which encompasses 26 campuses. State approval is currently being processed.

These courses are being changed to reflect changes in the theoretical and troubleshooting requirements for technicians as they no longer merely install phone instruments, but install and troubleshoot TV, Computer links and networks in homes and businesses.

CHANGES IN COURSE TITLE

ECET

From: ET 704 Networking Fundamentals I (Cisco CCNA I)
3 class hours 3 lab hours 4 Credits
Prerequisites: None

To: ET-704 Networking Fundamentals I
3 class hours 3 lab hours 4 Credits
Prerequisites: None

ECET

From: ET 705 Networking Fundamentals II (Cisco CCNA II)
3 class hours 2 lab hours 4 credits
Prerequisite: ET-704

To: ET-704 Networking Fundamentals II
3 class hours 2 lab hours 4 credits
Prerequisite: ET-704

Rationale for ET-704 and 705: The Cisco CCNA Certification program at QCC has not been successful. We are no longer participating in the Cisco Academy (partially due to cost). Very few students have actually pursued Cisco Certification. CCNA certification requires the completion of four courses (ET-704, ET-705, ET-706, and ET-707). Our original plan was to offer ET-704 and ET-705 during the day and ET-706 and ET-707 during the evening. The thought was that students could continue their studies towards the CCNA certification in the evening after graduation. Low enrollment in ET-706 and ET-707 has resulted in constant cancellation of these courses. While the course content remains the same, the terms “Cisco, CCNA I” and “Cisco, CCNAII” should be dropped from the titles.

CHANGE IN CURRICULUM

The following changes are proposed for the Verizon Next Step Telecommunications Technology Program:

From: **TELECOMMUNICATIONS TECHNOLOGY: VERIZON**
 A.A.S. Degree Program

REQUIREMENTS FOR THE A.A.S. DEGREE

GENERAL EDUCATION CORE REQUIREMENTS		Credits
EN-101, 102	English Composition I, II.....	6
MA-114	College Algebra and Trigonometry for Technical Students.....	4
MA-127	Technical Mathematics II: Verizon.....	4
PH-201,202	General Physics I.....	4
SS-250	Labor and Management.....	3
Sub-total		21

**REQUIREMENTS FOR THE MAJOR
ELECTRICAL/ELECTRONICS CORE**

ET-125	Electrical Circuits.....	4
ET-210, 220	Electronics I, II.....	8
[ET-540	Digital Computer Theory I.....	4]
[ET-560	Microprocessors and Microcomputers.....	4]
Sub-total		20

TELECOMMUNICATIONS CORE

ET-508	Computer Applications for Telecommunications.....	3
ET-230	Telecommunications I.....	4
ET-231	Telecommunications II.....	4
ET-704	Networking Fundamental I [(Cisco CCNA I)].....	4
ET-705	Networking Fundamental II [(Cisco CCNA II)].....	4
Sub-total		19

Total Credits Required..... 60

To:

**TELECOMMUNICATIONS TECHNOLOGY: VERIZON
A.A.S. Degree Program**

REQUIREMENTS FOR THE A.A.S. DEGREE

GENERAL EDUCATION CORE REQUIREMENTS		Credits
EN-101, 102	English Composition I, II.....	6

MA-114	College Algebra and Trigonometry for Technical Students.....	4
MA-127	Technical Mathematics II: Verizon.....	4
PH-201,202	General Physics I.....	4
SS-250	Labor and Management.....	3

Sub-total		21

**REQUIREMENTS FOR THE MAJOR
ELECTRICAL/ELECTRONICS CORE**

ET-125	Electrical Circuits.....	4
ET-210, 220	Electronics I, II.....	8
ET-531	PC Essentials I.....	4
ET-532	PC Essentials II.....	4

Sub-total		20

TELECOMMUNICATIONS CORE

ET-508	Computer Applications for Telecommunications.....	3
ET-230	Telecommunications I.....	4
ET-231	Telecommunications II.....	4
ET-704	<u>Networking Fundamentals I</u>	4
ET-705	<u>Networking Fundamentals II</u>	4

Sub-total		19

Total Credits Required..... 60

Rationale

Verizon has requested that the Next Step Program revise its curriculum to support its new initiative to install fiber optic cable to every home and business in the United States within the next five years. As part of this initiative, Verizon will be offering voice, Internet, and video service to all of its subscribers. Verizon would like to see a greater emphasis on PC related skills as well as some topical changes in the telecommunications courses.

The 26 member Colleges of the Next Step Program have been meeting with Verizon for the past year to discuss and recommend changes to the Next Step Curriculum. On January 11, 2006 the Next Step consortium of colleges approved changes in the course sequence, the replacement of the two Digital Courses with two new PC related courses, and a number of small revisions to the course outlines of the four courses in the Telecommunications sequence.

SUMMARY OF CHANGES

The proposed changes to the Verizon Next Step curriculum will maintain the same number of credits and hours needed for graduation as in the existing Verizon Next Step curriculum. Furthermore, there are no changes to the general education and liberal arts and sciences course requirements.

ET-540, Digital Computers, will be replaced by ET-531, PC Essentials I. ET-560, Microprocessors and Microcomputers, will be replaced by ET-532. PC Essentials II. The titles of ET-704 and ET-705 will be revised to omit the words Cisco CCNA I and Cisco CCNA II respectively.

NEW COURSE

ECET:

The following new course will be added to the A.A.S. Degree Program in Computer Engineering Technology.

ET-542 Computer and Electrical Device Applications
 3 lab hours 1 Credit
Prerequisites: ET-210 and ET-540 or ET-510

Course description: A practical course in the design and building of computer and electrical device applications. Topics include: Zener Diode Voltage regulators, Switching Applications, Darlington Configurations, Photo transistors, OP AMP Applications, Relays, and the use and design of Programmable Logic Devices into circuit applications.

Rationale: Since ET-540, Digital Computers, is taught in the first semester, and ET-210, Electronics I, is taught in the second semester, a second course is required to cover practical applications. Students need to see, experiment and apply the basic concepts covered in these courses to practical real world applications. ET-542 will address this need.

COURSE DELETIONS from COMPUTER ENGINEERING TECHNOLOGY DEGREE

ECET:

ET-220	Electronics II.....	4
ET-503	Introduction to Assembly Language Programming	1
ET Elective		1

CHANGE IN CURRICULUM

ECET

The following changes are proposed for the A.A.S. degree program in Computer Engineering Technology:

FROM:

**COMPUTER ENGINEERING TECHNOLOGY
 A.A.S. Degree Program
 A TAC/ABET ACCREDITED ENGINEERING TECHNOLOGY CURRICULUM**

REQUIREMENTS FOR THE A.A.S. DEGREE

GENERAL EDUCATION CORE REQUIREMENTS

Credits

EN-101, 102	English Composition I, II.....	6
MA-114	College Algebra and Trigonometry for Technical Students.....	4
MA-128	Calculus for Technical and Business Students.....	4
PH-201,202	General Physics I, II.....	8
SS-or HI-	Electives in Social Science or History (HI-100 series).....	6
	Sub-total	28

REQUIREMENTS FOR THE MAJOR

ET-110	Electric Circuit Analysis I.....	4
ET-140	Sinusoidal and Transient Circuit Analysis.....	3
ET-210, [220]	Electronics I, [II].....	[8]
ET-350	Computer Control Systems.....	4
ET-420	Computer Project Laboratory.....	1
ET-501	Computer Applications.....	1
ET-502	Introduction to Computer Programming.....	1
[ET-503	Introduction to Assembly Language Programming.....	1]
ET-504	Operating Systems and System Deployment.....	2
ET-540	Digital Computer Theory I.....	4
ET-560	Microprocessors and Microcomputers.....	4
	Sub-total	33

ELECTIVES

ET electives+..... [3]

Total Credits Required..... 64

**COMPUTER ENGINEERING TECHNOLOGY
A.A.S. Degree Program
A TAC/ABET ACCREDITED ENGINEERING TECHNOLOGY CURRICULUM**

REQUIREMENTS FOR THE A.A.S. DEGREE

GENERAL EDUCATION CORE REQUIREMENTS

Credits

En-101, 102	English Composition I, II.....	6
MA-114	College Algebra and Trigonometry for Technical Students.....	4
MA-128	Calculus for Technical and Business Students.....	4
PH-201,202	General Physics I, II.....	8

SS-or HI-	Electives in Social Science or History (HI-100 series).....	6
	Sub-total	28

REQUIREMENTS FOR THE MAJOR

ET-110	Electric Circuit Analysis I.....	4
ET-140	Sinusoidal and Transient Circuit Analysis.....	3
ET-210	Electronics I.....	4
ET-350	Computer Control Systems.....	4
ET-420	Computer Project Laboratory.....	1
ET-501	Computer Applications.....	1
ET-502	Introduction to Computer Programming.....	1
ET-509	C++ Programming for Embedded Systems.....	1
ET-504	Operating Systems and System Deployment.....	2
ET-540	Digital Computer Theory I.....	4
ET-542	Computer and Electrical Device Applications.....	1
ET-560	Microprocessors and Microcomputers.....	4
ET-704	Networking Fundamentals I.....	4
	Sub-total	34

ELECTIVES

ET electives+.....	2
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Total Credits Required..... 64

Rationale: The CT curriculum urgently needs to be updated to accommodate the continued growth in importance of computer networks. The ECET Department currently offers ET-705, Networking Fundamentals II, as an elective. This course provides students with excellent coverage of the subject matter. It was developed more than fifteen years ago and has been revised to remain current. For example the ET-705 course was originally developed to teach Novel Networking but today teaches Server 2003 (Microsoft’s newest networking product). While this course has been very popular among students (two sections fill almost every semester), all Computer Engineering Technology students do not get the opportunity to enroll. This is further complicated by TAP financial aid policies. The proposed revision addresses this problem by making ET-705 a required course. ET-220, Electronics II, will be removed as a CT program requirement but will remain part of the ET curriculum. The department feels that knowledge of networking is more important for CT majors than the additional electronics topics covered in ET-220. Furthermore CT students can still take ET-220 as an elective.

Another proposed change involves the development of a new course, ET-542, Digital and Analog Applications. Since ET-540, Digital Computers, is taught in the first semester, and ET-210, Electronics I, is taught in the second semester, a second course is required to cover practical applications. Students need to see, experiment and apply the basic concepts covered in these courses to real world applications. ET-542 will address this need. One elective credit has been deleted in order to make room for this course.

Finally, our old pre-requisite for ET560 was ET-503, Introduction to Assembly Language Programming. The problem with assembly code is that it is different for each family of microprocessors. Modules developed for one microprocessor cannot be used on another.

As a result, microprocessor manufacturers are supplying more free C++ code for their products than assembly code. CT students need to learn this new and more flexible approach to programming microprocessors. In response to this change in industry practice, ET-560 will be taught with C++ code and will require a new pre-requisite of ET-509 which introduces embedded C++ programming to students.

ET-509, C++ Programming for Embedded Systems, will replace ET-503, Introduction to Assembly Language Programming, in the proposed Computer Engineering Technology curriculum. Since development speed is a driving force in today's industry; the first manufacturer to market is the winner. In the area of microprocessor applications, this means that reusable standardized code is becoming more and more important. The use of C++, with its extensive reservoir of useful code modules, means that today it is more useful than assembly code.

The proposed changes to the CT curriculum will maintain the same number of credits and hours needed for graduation as in the existing CT curriculum. Furthermore, there are no changes to the liberal arts and sciences courses. The proposed Computer Engineering Technology curriculum represents a balanced curriculum of computer hardware, software, system design, liberal arts and science, and communications, to help students understand current and future computer engineering needs of companies. Furthermore it will provide computer engineering technology students with the prerequisites to continue on for a four-year degree.

SUMMARY OF CHANGES IN THE CT PROGRAM:

New Courses added to the program:

ET-542 Computer and Electrical Device Applications..... 1

Existing courses added to the program:

ET-509 C++ Programming for Embedded Systems..... 1

ET-704 Networking Fundamentals I..... 4

Change in course prerequisites:

ET-560 Microprocessors and Microcomputers..... 4

Courses deleted from the program:

ET-220 Electronics II..... 4

ET-503 Introduction to Assembly Language Programming ... 1

ET Elective 1

CHANGE IN COURSE PREREQUISITES

ECET

From:

ET-560 Microprocessors and Microcomputers

Prerequisites: [ET-503 and ET-540 or ET-509 and 510.]

To: **ET-560 Microprocessors and Microcomputers**

Prerequisites: ET-509 and 510 or ET-540

Rationale – Development speed is a driving force in today’s industry; the first manufacturer to market is the winner. In the area of microprocessor applications, this means that reusable standardized code is becoming more and more important. The use of C++, with its extensive reservoir of useful code modules, means that today it is more useful than assembly code.

ET560 was previously taught using assembly language programming. The problem with assembly code is that it is different for each family of microprocessors. Modules developed for one microprocessor cannot be used on another.

As a result, microprocessor manufacturers are supplying more free C++ code for their products than assembly code. Our students need to learn this new and more flexible approach to programming microprocessors. In response to this change in industry practice, ET560 is currently being taught using C++ code and requires a new pre-requisite of ET509 which introduces to students embedded C++ programming.

NEW COURSES

Art and Photography:

The following courses are being proposed as part of the proposed new A.S. Degree Program in Gallery and Museum Studies.

AR-801 : Art Administration

2 class hours, 1 recitation hour; 2 credits

Prerequisites: BE-112 (or 205), BE-122 (or 226) and Art History 311

Course description:

This course will address the many and varied tasks involved in gallery/museum administration. Often, in a gallery or museum, an individual may be expected to perform or assist in more than one aspect of administration: assisting in the director’s office, clerical and administrative support, training new staff, public relations, helping visitors, researching and writing a background history of the institution, organizing a volunteer program, providing educational services to visiting groups. In short, a gallery/ museum is expected at all times to provide efficiency, effectiveness and economy in management, and an individual will be expected to be able to take charge of or assist in all aspects of administration.

AR-802 Art Conservation

3 hours, 3 credits

Prerequisites: AR-312; AR-801

Course description:

This course is an overview of the development and care of a Gallery’s collection. Topics will include laying out gaps in the Gallery’s holdings, procedures of documentation (of works of art), practice in creating an accessions register, cataloguing, indexing and retrieval. Conservation planning will emphasize environmental conditions in display and storage areas, methods of storage and display, reports on the state of an art object, materials testing (e.g. the proper handling, storing and display of wood, fabrics, paints, adhesives, plastics, ceramics, photographs, glass, electronic media), packing and transit of art objects, security. Classroom lecture and discussion will be supplemented with trips to the QCC Art Gallery to observe, to participate in meetings with

the Gallery director, and to participate in performing above mentioned tasks when the student achieves a B average or above in class work, class oral performance, quizzes and exams.

AR-803 Art Curating

3 class hours, 3 credits

Prerequisites: AR- 312, AR-802

Course description:

This course covers the basics of planning an exhibition for a targeted audience in a Gallery or Museum setting. Appropriate display design for a specific theme, utilizing the gallery/museum collection, research, sources of information, how to write informative text for the public (what to say and how to say it), exhibition design and production, contracts, insurance, construction and display of exhibitions, publicity. In addition, the course will cover policies for collecting and disposal of works of art, donations, purchases and loans. Classroom lecture and discussion will be supplemented with trips to the QCC Art Gallery to observe, to participate in meetings with the Gallery Director, and to participate in curatorial duties (under supervision) when the student achieves a grade point average of B or above, as determined by tests, quizzes, papers, and class participation.

Rationale for AR-801, 802, 803:

The newly renovated and expanded QCC Art Gallery provides an excellent venue for training our students in all aspects of Arts Administration in the Gallery/Museum field. New York City is an art world center and as such, it has hundreds of Art Galleries and Museums that draw professionals and visitors not only from New York, but from across the United States and from countries across the globe. As art institutions continue to expand, the professional field of Gallery and Museum work is expanding. The purpose of this program, the only one of its kind in the City University of New York, is to provide students with the training to become professionals in this growing field

NEW CURRICULUM

Art and Photography: A.S. in Gallery and Museum Studies

The proposed Associate in Science Degree in Gallery and Museum Studies offers students foundation courses in Administration, Conservation and Curatorial work in Art Galleries and Museums, and Liberal Arts courses necessary to the Gallery and Museum field. Queensborough's newly restored Art Gallery provides students with an excellent venue to gain hands on experience in courses that interface with the Gallery and in Gallery Internships.

The QCC Gallery has a first class permanent collection of African Art. To complement the Gallery's holdings in African Art, Gary Schulze offered his extensive collection for exhibition at the Gallery from May through September 2005. It received excellent reviews in The Chronicle of Higher Education, The New York Times, The Daily News and the Queens Tribune. In The Times, Holland Cotter wrote on Friday, August 29, 2005 that African Art should be a basic point of every Art History program. In addition, although the newly renovated building has been open for only one year, it has hosted an international exhibition, An American Odyssey 1945/1980 (Debating Modernism) that originated in Madrid and traveled to Salamanca and A Coruña in Spain. The QCC Gallery was the only U.S. venue for the exhibition, which was cited by Holland Cotter in The New York Times as having "a worthy goal" that is "stimulating and fun." The accompanying 411 page hardcover catalogue has been printed in English and Spanish.

In addition to three courses and two internships in Gallery and Museum Studies, students will take one course in Business, and liberal arts courses in English, a foreign language, Chemistry, History, Mathematics, and The Philosophy of Aesthetics, all designed to round out their expertise in Gallery and Museum work. Faculty in the Art Department will teach the three new courses of the program, Administration, Conservation and Curating, and oversee the internships with Faustino Quintanilla, the Gallery Director. They will teach also, three required and one elective course in studio art, and four courses in the History of Art, to provide a solid understanding of art making and its history over time. It is expected that as enrollment in the program increases, one full time Art Historian/Museum/Gallery specialist will be hired full time to oversee the program.

An added initiative for the program's students is being offered by the Conservation Departments of the Metropolitan Museum of Art and the New York Public Library at Fifth Avenue and Forty-Second Street in the form of internships.

Students with this degree can gain entry-level positions in Galleries and Museums. Nonetheless, the program is designed to enable students to continue to advanced study in a senior college, with no loss of credit, to obtain an education that will prepare them for a profession in the Gallery and Museum field.

New York City is the center of the art world and as such, it has hundreds of Art Galleries and Museums that draw professionals and visitors not only from New York, but from across the United States and from countries across the globe. As art institutions expand, the professional field of Gallery and Museum work is expanding. The purpose of this program, the only one of its kind in the City University of New York, is to provide students with the training to become professionals in this growing field.

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Program Content and Requirements		Please place an x in the appropriate column		
List each course required for the college core (if applicable)	Course Number and Course Title*	No. of Credits	Is this a new course?	Is this a revised course?
		AR-311 History of Art I (Ancient-Gothic)*	3	
	CH-103,104 Chemistry and the Arts*	4		
	EN-101,102 English Composition I & II*	6		
	Foreign Language/Liberal Arts & Sciences* (at least 3 credits of Foreign Language is required)	6-8		
	HE-102 Critical Issues in Health Ed.*	2		
	HI-110, 111, or 112* (History: Ancient, Medieval or Modern)	3		
	MA-301 Foundations of Mathematics	3		
	SP-211 Speech Communication*	3		
	Social Science Elective* (SS-110, Introd. to Anthropology, or SS-310, Introd. to Sociology, or SS-510, Introd. to Psychology suggested)	3		
	SUBTOTAL	33-35		
List each course required for the major (include any field experience, research, thesis, or capstone course)	AR-801 Art Administration	2	X	
	AR-802 Art Conservation	3	X	
	AR-803 Art Curating	3	X	
	AR-312 History of Art II (Renaissance-Modern)	3		
	AR-320 Contemporary Art (1945-present)	3		
	AR-901, 902 Gallery Internships I & II	4		
	Art History elective	3		
	BU-201 Business Organization & Management			
*		3		

Suggested Sequence of Courses

Semester 1

		<u>Credits</u>
AR-311, HI-110, HI-111,	History of Art I (Writing Intensive) Introduction to Ancient Civilization <u>OR</u> Introduction to Medieval and Early Modern Civilization	3 3
EN-101,	English Composition I	3
	Foreign Language	3-4
MA-120, MA-301,	College Algebra and Trigonometry <u>OR</u> Foundations of Mathematics	 3

Semester 2

AR-312,	History of Art II (Writing Intensive)	3
	HI-112, <u>IF</u> HI-110 or HI-111 have not been taken	3
AR-801,	Art Administration	2
BU-201,	Business Organization and Management	3
AR-901,	Gallery Internship I	2
EN-102,	English Composition II: Introd. to Literature	3
	Foreign Language*	0

Semester 3

AR-802,	Art Conservation	3
CH-103, 104, AR-315,	Chemistry and the Arts with Lab Modern Art <u>OR</u> AR-326, Asian Art <u>OR</u> second semester of Foreign Language if not taken in semester 2	4 3-4
SP-211,	Speech Communication	3
HE-102,	Critical Issues in Health	3

Semester 4

AR-803,	Art Curating	3
AR-320,	Contemporary Art	3
AR-902,	Gallery Internship II (pre-req. = AR-901)	2
SS-110, SS-510,	Anthropology <u>OR</u> SS-310, Sociology <u>OR</u> Psychology	 3
	Free Elective in Liberal Arts & Sciences	0-3
HI-112,	Introduction to Modern Western Civ. <u>OR</u> AR-315, Modern Art <u>OR</u> AR-326, Asian Art, IF NOT TAKEN IN PREVIOUS SEMESTER	 3
	*FOREIGN LANGUAGE IN SEMESTER 2 is to be taken only IF A SECOND LANGUAGE COURSE IS NECESSARY <u>AND</u> IF HI-122 IS NOT TAKEN THIS SEMESTER BECAUSE HI-110 OR HI-111 WERE TAKEN IN SEMESTER 1	

CHANGES IN A DEGREE PROGRAM

The following changes are proposed for the A.A. Degree Program in Childhood Education (LE1):

From:

REQUIREMENTS FOR THE ASSOCIATE IN ARTS (A.A.) DEGREE component of the Dual/Joint Degree Program with Queens College, Liberal Arts and Sciences and Education

- QCC must require a GPA of 2.75 toward degree to graduate students in this program

NOTE: Students will use the QCC/QC Core Equivalency List in the Student Guide to determine the applicability of QCC core course requirements to the Queens College LASAR requirements. The Major Course Equivalency List will be used as a guide in determining the transferability of Queensborough courses to allowable Queens College liberal arts and science majors.

CORE CURRICULUM REQUIREMENTS

	Credits
EN-101 English Composition I	3
EN-102 English Composition II	3
SS 310 Sociology	3
HI-127 Growth of American Civilization I: Colonial Period Through Reconstruction or	
HI-128 Growth of American Civilization II: Reconstruction to the Present	3
Art History	3
<i>Select from Art 310, 311, 312, 313, 315, 316, 318;</i>	
<i>Meets a Queens LASAR requirement for Humanities II</i>	
Subtotal	15

GENERAL EDUCATION CORE REQUIREMENTS

English	3
<i>Select from Tier 1: EN 301, 302, 303, 444, 445, 611; Tier 2: EN 217, 401, 402, 411, 412, 621; meets a Queens LASAR requirement for Humanities I</i>	
NOTE: Students with less than a "B" [average] in EN 101 and 102 MUST take an additional writing course, EN 213, and complete it with a grade of "B" to meet an Early Childhood Education requirement at Queens College. It is recommended that students take this course PRIOR to their literature selection.	
Mathematics 303	3
NOTE: If required, based upon QCC/CUNY Math Placement test, MA-120 must be completed prior to MA-303.	
Laboratory Science	8
Take PH-101 AND select one course: BI 140 or CH 120/121	
<i>Meets part of Queens LASAR requirement in Physical and Biological Sciences</i>	
Physical Education	1
<i>Select from PE-401, 406, 407, 408, 409, 410, 415, 416, 425, 441, 501, 503, 505, 507, 508, 510, 515, 518, 520, 521, 522, 523, 525, 529, 531, 534, 537, 540, 541; meets Queens College graduation requirement</i>	
History 127 or 128	3
<i>Meets Queens LASAR requirement in Social Sciences (American History)</i>	
Social Sciences	6
<i>SS- 610 [or SS-670] ; meets Queens LASAR requirement in Humanities III;</i>	
AND select one course from SS-211, SS-260, SS-410, SS-440, SS-450, SS-630;	

meets Queens LASAR requirement in Social Sciences

	<i>Subtotal</i>	24
REQUIREMENTS FOR THE MAJOR		
ED-110		4
	<i>Subtotal</i>	4
Liberal Arts and Sciences Courses from the QCC/QC LASAR Equivalency List. See below (consult with adviser):		
Humanities I		3
Note: take from the LASAR Category NOT selected for the third English course above		
Tier 1 : EN-301, 302, 303, 444, 445, 611, LF 812, LS 812, LI 813		
Tier 2 : EN-217, 401, 402, 411, 412, 621, or LG 812		
Humanities II		
PE-711 or SP-531		3
Music 261		3
Pre-Industrial Non-Western Civilization		
SS-110 [or] HI-110		3
MA-336 Scientific Methodology and Reasoning		3
	<i>Subtotal</i>	14
ELECTIVES		
<i>Selected from the QCC/QC Major Course Equivalency List</i>		
		3
Total Minimum Credits Required		61

• QCC graduates may be OVER QC LASAR requirements for incumbent students, if "deficiencies" such as Math 120, English 213, and third level of proficiency in foreign language must be met.

Note: Queens College requires all baccalaureate students to demonstrate knowledge of a foreign language equivalent to three semesters of study at the college level. Certification of proficiency at this level may be demonstrated as follows:

1. Students who successfully complete the third level of foreign language instruction at the high school level or who achieve a passing grade on the New York State Regents Comprehensive Language Examination, level 3, are exempt from this requirement.

2. Students who have studied a foreign language or whose native language is not English may be exempted from part or all of this requirement on the basis of scores obtained on other externally administered examinations approved by the Queens College foreign language departments.

• Distribution requirements are based upon QC curriculum in Early Childhood Education, which incorporates New York State Department of Education Learning Standards for Licensure in this field.

See Student Program Guide and Queens College catalog for more information about major requirements at Queens College

Africana Studies: SS-120, 340
Anthropology: SS-110, 120, 130, 140, 150
Art History: AR-311, 312, 316, 317, 320
Studio Art: AR-148, 231, 232, 251, 252, 261
Graphic/Commercial Art: AR-510, 511, 541
Photography Art: AR-461, 462
Biology: BI-201, 202
Chemistry: CH-251, 252
Economics: SS-211, 212, 250

English: EN-201, 202,213, 401, 402, 411, 412, 621
French: LF-111, 112, 213, 214, 215, 216, 312, 313, 811, 812,
Geology/Geoscience Education: GE-101, 102
German: LG-111, 112, 213, 214, 311, 312, 313, 613, 615, 811, 812
History: HI-110, 111, 112, 113, 125, 126, 127, 128, 129, 140, 141, 154, 185
Italian: LI-111, 112, 213, 214, 215, 216, 311, 314, 813
Latin American Area Studies: LS-315, 615; SS-460
Mathematics: MA-441, 442, 451
Music (Music Education): MU-120, 210, 211, 212, 213, 214, 241, 242, 243, 244, 321,
322, 351, 352, 361, 362, 371, 372, 381
Physics: PH-110, 301, 302, 412 (with 411), 413, 415, 416, 440
Sociology: SS-310, 320, 330, 340, 350, 360, 370, 375, 380, 390
Spanish: LS-111, 112, 213, 214, 215, 216, 225, 311, 312, 313, 315, 615, 811, 812
Urban Studies: SS-901, 902, 911

To:

REQUIREMENTS FOR THE ASSOCIATE IN ARTS (A.A.) DEGREE component of the Dual/Joint Degree Program with Queens College, Liberal Arts and Sciences and Education

- QCC must require a GPA of 2.75 toward degree to graduate students in this program

NOTE: Students will use the QCC/QC Core Equivalency List in the Student Guide to determine the applicability of QCC core course requirements to the Queens College LASAR requirements. The Major Course Equivalency List will be used as a guide in determining the transferability of Queensborough courses to allowable Queens College liberal arts and science majors.

CORE CURRICULUM REQUIREMENTS

	<i>Credits</i>
EN-101 English Composition I	3
EN-102 English Composition II	3
SS 310 Sociology	3
HI-127 Growth of American Civilization I: Colonial Period Through Reconstruction or	
HI-128 Growth of American Civilization II: Reconstruction to the Present	3
Art History	3
<i>Select from Art 310, 311, 312, 313, 315, 316, 318;</i> <i>Meets a Queens LASAR requirement for Humanities II</i>	
Subtotal	15

GENERAL EDUCATION CORE REQUIREMENTS

English	3
<i>Select from Tier 1: EN 301, 302, 303, 444, 445, 611; Tier 2: EN 217, 401, 402, 411, 412, 621; meets a Queens LASAR requirement for Humanities I</i>	

NOTE: Students with less than a "B" in [each English course](#), EN 101 and 102, **MUST** take an additional writing course, EN 213, and complete it with a grade of "B" to meet an Early Childhood Education requirement at Queens College. It is recommended that students take this course **PRIOR** to their literature selection.

Mathematics 303	3
NOTE: If required, based upon QCC/CUNY Math Placement test, MA-120 must be completed prior to MA-303.	

Laboratory Science	8
Take PH-101 AND select one course: BI 140 or CH 120/121 or GE-101	
<i>Meets part of Queens LASAR requirement in Physical and Biological Sciences</i>	

Physical Education	1
<i>Select from PE-401, 406, 407, 408, 409, 410, 415, 416, 425, 441, 501, 503, 505, 507, 508, 510, 515, 518, 520, 521, 522, 523, 525, 529, 531, 534, 537, 540, 541; meets Queens College graduation requirement</i>	

History 127 or 128	3
<i>Meets Queens LASAR requirement in Social Sciences (American History)</i>	

Social Sciences	6
<i>SS 610; meets Queens LASAR requirement in Humanities III;</i>	
AND select one course from, SS-110* , SS-211, SS-260, SS-410, SS-440, SS-450, SS-630; <i>meets Queens LASAR requirement in Social Sciences</i>	

Subtotal **24**

REQUIREMENTS FOR THE MAJOR

ED-110	4
<i>Subtotal</i>	4
Liberal Arts and Sciences Courses from the QCC/QC LASAR Equivalency List. See below (consult with adviser):	
Humanities I	3
Note: take from the LASAR Category NOT selected for the third English course above	
Tier 1 : EN-301, 302, 303, 444, 445, 611, LF 812, LS 812, LI 813	
Tier 2 : EN-217, 401, 402, 411, 412, 621, or LG 812	
Humanities II	
PE-711 or SP-531	3
Music 261	3
Pre-Industrial Non-Western Civilization	
SS-110*, HI-110, or AR-313**	3
MA-336 Scientific Methodology and Reasoning	3
<i>Subtotal</i>	14
ELECTIVES	
Selected from the QCC/QC Major Course Equivalency List	3

Total Minimum Credits Required 61

* SS-110 satisfies both the Social Sciences and Pre-Industrial/Non-Western Civilization course requirement in the Queens College Lasar. Students who apply SS-110 toward the Social Sciences requirement need not take an additional Social Sciences course from this group: SS-211, SS-260, SS-410, SS-440, SS-450, SS-630. It is recommended that students select an additional course from the electives in place of the additional Social Sciences course.

** AR-313 satisfies both the Humanities II and Pre-Industrial/Non-Western Civilization course requirement in the Queens College LASAR. Students who take AR-313 toward the Humanities II requirement may take an additional course from the electives.

• QCC graduates may be OVER QC LASAR requirements for incumbent students, if "deficiencies" such as Math 120, English 213, and third level of proficiency in foreign language must be met.

Note: Queens College requires all baccalaureate students to demonstrate knowledge of a foreign language equivalent to three semesters of study at the college level. Certification of proficiency at this level may be demonstrated as follows:

1. Students who successfully complete the third level of foreign language instruction at the high school level or who achieve a passing grade on the New York State Regents Comprehensive Language Examination, level 3, are exempt from this requirement.

2. Students who have studied a foreign language or whose native language is not English may be exempted from part or all of this requirement on the basis of scores obtained on other externally administered examinations approved by the Queens College foreign language departments.

• Distribution requirements are based upon QC curriculum in Early Childhood Education, which incorporates New York State Department of Education Learning Standards for Licensure in this field.

See Student Program Guide and Queens College catalog for more information about major requirements at Queens College

Africana Studies: SS-120, 340

Anthropology: SS-110, 120, 130, 140, 150

Art History: AR-311, 312, 316, 317, 320

Studio Art: AR-148, 231, 232, 251, 252, 261
Graphic/Commercial Art: AR-510, 511, 541
Photography Art: AR-461, 462
Biology: BI-201, 202
Chemistry: CH-251, 252
Economics: SS-211, 212, 250
English: EN-201, 202, 213, 401, 402, 411, 412, 621
French: LF-111, 112, 213, 214, 215, 216, 312, 313, 811, 812,
Geology/Geoscience Education: GE-101, 102
German: LG-111, 112, 213, 214, 311, 312, 313, 613, 615, 811, 812
History: HI-110, 111, 112, 113, 125, 126, 127, 128, 129, 140, 141, 154, 185
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Spanish: LS-111, 112, 213, 214, 215, 216, 225, 311, 312, 313, 315, 615, 811, 812
Urban Studies: SS-901, 902, 911

Rationale for Changes:

In Spring 2005 the Elementary and Early Childhood Education Department at Queens College made some changes in their course requirements (the departmental LASAR), and in order to bring our curriculum into line with those changes the following revisions are proposed:

- require a “B” or better in each of the two English courses, EN101 and 102
- include SS110 in both Social Sciences and Pre-Industrial/Non-Western Civilization requirements
- include AR-313 in both Humanities II and Pre-Industrial/Non-Western Civilization requirements

The removal of SS670 from the Social Sciences/Humanities III requirements is due to its deactivation because it was a “seldom offered course.”

Summary of Changes:

- GE-101, AR-313, and SS-110 have been added as options.
- The requirement of a B or better in both EN-101 and 102 is clarified.
- SS-670 is removed from the program.