

**QUEENSBOROUGH COMMUNITY COLLEGE**  
**CITY UNIVERSITY OF NEW YORK**  
**CURRICULUM COMMITTEE**

**To:** Emily Tai, Academic Senate Steering Committee  
**From:** Philip A. Pecorino, Chairperson, Committee on Curriculum  
**Date:** March 28, 2010  
**Subject: Monthly Report**

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The Committee on Curriculum has acted to send the following recommendations to the Academic Senate. Recommendations are made of the following types:

- I. Course Changes
- II. New Courses
- III. Degree Program Changes
- IV. New Degree Program

**I. Course Changes**

**DEPARTMENT of FOREIGN LANGUAGES and LITERATURE**

**Prerequisite Change (1 Course)**

**From: LC-122 Mandarin for Students of Chinese Heritage II**

4 class hours 4 credits

[Prerequisite/corequisites: **Departmental permission.**]

**To: LC-122 Mandarin for Students of Chinese Heritage II**

4 class hours 4 credits

Prerequisite: LC-121 with a grade of C or better, or departmental permission

Rationale: This course is the continuation of LC-121. Because language learning is a cumulative process, the mastery of LC-121 language skills at a C level or higher is necessary for a student to succeed in LC-122. The majority of students who perform below C in LC-121 are unable to perform at a satisfactory level in LC-122.

**DEPARTMENT of MATHEMATICS and COMPUTER SCIENCE**

**Prerequisite Changes (3 courses)**

**1. From: MA-128 Calculus for Technical and Business Students** 4 class hours 4 credits

Prerequisite: MA-120 or MA-114, or the equivalent.

**To: MA-128 Calculus for Technical and Business Students** 4 class hours 4 credits

Prerequisite: MA-120 or MA-114 with a C- or better, or the equivalent.

Rationale: The Math Department requires students to earn a C- or better in MA 120 or MA 114 as a prerequisite for MA 440. To make requirements consistent across the various curricula, the prerequisite for MA 128 should also be a C- or better in MA 120 or MA 114. The department will assess the results of this change. We anticipate a higher success rate for students.

**2. From: MA-315 Topics in Mathematics** 3 class hours 3 credits

Prerequisite: MA-301 or MA-303

**To: MA-315 Topics in Mathematics** 3 class hours 3 credits

Prerequisite: MA-301 or MA-303 or permission of the department

Rationale: MA 315 is used for independent study, as a catch-all course for transfer students, as a course for mathematics and science teachers taking courses for certification, and for students with special needs. It can be taught as an on-line course, a hybrid course, or a strictly in-class course. Since many of the students registering for this course have taken mathematics at another college or are non-matriculants with a BA degree, the department needs flexibility in the prerequisite for the course so we can evaluate students on an individual basis.

**3. From: MA-336 Computer-Assisted Statistics** 3 class hours 1 laboratory hour 3 credits

Prerequisite: MA-120 [or 205] or MA-114, or satisfactory score on the Mathematics Placement Test, level II. [Students may not receive credit for both MA-332 and 336.]

**To: MA-336 Computer-Assisted Statistics**

3 class hours 1 laboratory hour 3 credits

Prerequisite: MA-120 or MA-114 with a C- or better, or satisfactory score on the Mathematics Placement Test, level II. **NOTE:** MA 205 and MA 332 are no longer offered

Rationale: The Math Department requires students to earn a C- or better in MA 120 or MA 114 as a prerequisite for MA 440. To make requirements consistent across the various curricula, the prerequisite for MA 336 should also be a C- or better in MA 120 or MA 114. The department will assess the results of this change. We anticipate a higher success rate for students.

## **II. New Courses**

### **DEPARTMENT of FOREIGN LANGUAGES and LITERATURE (2 Courses)**

**1. LA-111 Elementary Arabic I** 4 credits (4 class hours, 1 lab hour)

Prerequisites: Placement by the Department of Foreign Languages

This course is designed for students who have no previous background in Arabic. It focuses on the four essential language skills: listening, speaking, reading and writing. The alphabet, sound system, and basic greetings and expressions will be covered this semester. The main focus is on Modern Standard Arabic (MSA), although students are also trained to speak using spoken Arabic.

**Rationale:** Programs in Arabic language have already been incorporated very successfully into a good number of Community and Senior Colleges of CUNY, including LaGuardia and Kingsborough Community Colleges, and Queens and Hunter Colleges. Many students inquire about Arabic classes when they come to the Foreign Languages Department for advice and placement. We are certain that there is enough demand at this time to offer one Elementary Arabic I class every semester, and to continue expanding the program with the addition of Elementary Arabic II in the near future. As per our conversations with the directors of the Arabic programs at both Hunter and Queens Colleges it seems quite likely that we will be able to create a track for Arabic heritage speakers in the future, just as we have in the Spanish and Chinese programs.

**2. Chinese LC-321 Business Chinese I** 3 hours, 3 credits

Prerequisites and/or co-requisites: departmental permission

This course is designed for advanced speakers of Chinese. The curriculum provides advanced training in Chinese speaking, reading and writing skills using original business related materials. The emphasis of the course is on the mastery of general vocabulary and language structures used in the area of business. Social and behavioral cultural codes are also covered.

**Rationale:** Queensborough Community College has a growing population of advanced speakers of Chinese. Many of these students are business majors. This course will be of great interest to these students as it will help them to learn the technical language of business in Chinese. The curriculum will also include reading business related materials and written communications within major business fields. For students who take Chinese to fulfill their language requirement, this course can serve as either the first or second course of the language classes they need. Students can also take this course as an elective. Enrollment of about 30 is expected the first time it is offered and it will be offered every semester.

## DEPARTMENT of MECHANICAL ENGINEERING TECHNOLOGY and DESIGN DRAFTING

**MT-293 Parametric Computer Aided Design Drafting** 1 class hour, 2 recitation hours, 3 laboratory hours, 3 credits  
Co-requisites: MT-111

Introduction to the use of computer hardware and software for Mechanical Design Drafting. Applications of Parametric Computer Aided Design Drafting for increasing productivity. Concepts, commands and parameters involved in CAD systems. Students generate working drawings by interacting with the computer using graphics display terminals, parametric software, mouse and plotter.

**Rationale:** Students will learn to use the leading CAD software for Mechanical Design Drafting, currently Solid Works. To be competitive in today's job market our Mechanical Technology students need to be familiar with this industry standard. This new course will replace MT-488 Computer-Aided Design Drafting (CADD) in the MT curriculum. MT-488 (which focuses on Auto CAD) will be retained for the A.A.S. in CAID, as this is appropriate for Architectural Applications. The projected enrollment is 20 students and it will run every semester.

## DEPARTMENT of MUSIC (2 Courses)

**1. MU 471, MU 472, MU 473, MU 474 - Percussion Ensemble.** 2 studio hours; 1 credit  
Prerequisites: None (and/or) co-requisites: None

Study, rehearsal and performance of classical, contemporary and world percussion ensemble repertoire. May be repeated for credit.

**Rationale:** Currently, the Music Department has a steady enrollment in Jazz Ensemble section E3, which is devoted to percussion-based repertoire. The demand for this class, in fulfillment of A.S. in Visual and Performing Arts (FA1), Music Concentration and A.A.S. in Music Electronics Technology (ME2) program requirements, is sufficient to warrant a dedicated course. In addition, having a more accurate name and description of the course in the catalog will alleviate much confusion amongst current and prospective music majors.

This course provides an opportunity for music and non-music majors to develop proficiency in a variety of techniques for percussion, explore the varied repertoire from standard percussion ensemble literature to percussion around the world, and the gain experience performing on stage with an ensemble.

**2. MU-481, 482, 483, 484 Chamber Improvisation Ensemble** 2 studio hours; 1 credit  
Prerequisites: None (and/or) co-requisites: None

Exploration of creative expression, ensemble performance and focused listening through group improvisation, culminating in a public performance. Open to all instrumentalists (acoustic and electric) and vocalists. May be repeated for credit.

**Rationale:** This course will expand the musical experiences that QCC is able to offer to A.S. Fine Arts and A.A.S. Music Electronics Technology majors. Offered fall and spring semesters, it will provide the experience and opportunity for students to expand their musical expression through non-idiomatic improvisation, removing the barrier of notated music. Students will gain ensemble experience that is vital to producing successful musicians and develop their skills in musical interaction, creative expression and musical intuition; develop focused listening; and broaden their musical vocabulary through group performances and directed listening. While some musicians and scholars disagree as to the feasibility of teaching improvisation, all agree that it is a vital experience for students of music, as it "secures the total involvement of the performer." (Derek Bailey Improvisation: Its Nature and Practice in Music, 17) The aim of this course is to provide that experience for students, in a low-risk setting, before they continue in their education or enter the professional world. Additionally, nonidiomatic improvisation "enables the emergence and cultivation of a personal voice...at any level of technical ability." (William L. Cahn Creative Music Making, 21)

## III. Degree Program Changes

**FROM: A.A.S. Degree Program in Mechanical Engineering Technology**

<b>GENERAL EDUCATION CORE REQUIREMENTS</b>		<b>CREDITS</b>
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 Sciences or History (HI-100 series).....	6
	<i>Sub-total</i>	28

**REQUIREMENTS FOR THE MAJOR**

MT-111	Technical Graphics.....	2
MT-122	Manufacturing Processes.....	3
MT-124	Metallurgy and Materials.....	3
MT-125	Metallurgy Laboratory.....	1
MT-161	Fundamentals of Computer Numerical Control.....	3
MT-341	Applied Mechanics.....	3
<b>MT-488</b>	<b>Computer-Aided Design Drafting (CADD).....</b>	<b>3</b>
MT-345	Strength of Materials.....	3
MT-346	Strength of Materials Laboratory.....	1
MT-369	Computer Applications in Engineering Technology.....	3
MT-900	Cooperative Education/Design Projects.....	3
MT-491	Computer Controlled Manufacturing (CCM).....	2
MT-492	Introduction to Virtual Automation.....	2
MT-513	Thermo Fluid Systems.....	3
MT-514	Thermo Fluid Systems Laboratory.....	1
	<i>Sub-Total</i>	36
<b>Total Credits Required for the Mechanical Engineering Technology A.A.S. Degree Program.....</b>		<b>64</b>

**TO: A.A.S. Degree Program in Mechanical Engineering Technology**

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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
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MT-161	Fundamentals of Computer Numerical Control.....	3
MT-341	Applied Mechanics.....	3
<b>MT-293</b>	<b>Parametric Computer Aided Design Drafting .....</b>	<b>3</b>
MT-345	Strength of Materials.....	3
MT-346	Strength of Materials Laboratory.....	1
MT-369	Computer Applications in Engineering Technology.....	3
MT-491	Computer Controlled Manufacturing (CCM).....	2
MT-492	Introduction to Virtual Automation.....	2
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**Mechanical Engineering Technology A.A.S. Degree Program..... 64**

**A.A.S. in MECHANICAL ENGINEERING TECHNOLOGY**

SUMMARY OF CHANGES:

Title:

A.A.S. in Mechanical Engineering Technology

New courses:

MT-293 Parametric Computer Aided Design Drafting

Withdrawn course:

MT-488 Computer Aided Design Drafting (AutoCAD)

Rationale:

Parametric CAD has now become the industry standard approach for Mechanical Design Drafting applications. MT-293 will give our Mechanical Engineering Technology students the proper training they will need to compete in today's job market. MT-488 is being dropped because its main application is in the field of Architectural Design Drafting