

**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:** May 6, 2013

**Subject: Monthly Report for May 2013**

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The Committee on Curriculum has acted to send the following recommendations to the Academic Senate.

1. New Courses
2. Removal of Courses
3. Changes in Courses
4. New Programs or Concentrations
5. Changes in Degree Programs
6. Pathways Update

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**1. NEW COURSES**

**DEPARTMENT OF ENGINEERING TECHNOLOGY**

**ET-842 Energy Production and Conservation for a Sustainable World** 1 credit, 3 lab hours  
Co-requisite ET-841

**Description:**

This course provides students with the opportunity to relate their daily energy use to various renewable and non-renewable energy sources. Students will also participate in hands-on laboratory experiments that demonstrate how energy can be controlled and conserved in order to reduce harmful carbon emissions and costs.

**Rationale:**

This course is necessitated due the Pathway revision of the Liberal Arts and other Curriculums which now includes a 1 credit laboratory component. Alternative and Renewable Energy and Sustainability are extremely important topics for students. The course is one of the most relevant science core courses for students since much of the material and lab experiments are based upon the study of student surroundings and current life habits. This course explains and measures different types of energy sources. Through this science course they will gain a better understanding and appreciation of new conservation imperatives and new technologies.

**DEPARTMENT of HEALTH, PHYSICAL EDUCATION and DANCE**

**PE 826 Concepts of Personal Training I** 3 Credits 3 Hours  
**Prerequisites:** HE 102, PE 540, or Instructor Permission

**Description:**

This course is part of a sequence that will introduce the student to the personal training profession and an overview of the skills and models commonly utilized by members of the profession. It will provide a strong foundation to sit for various Personal Training Certification exams. The course will cover anatomy, physiology and biomechanics as it relates to personal training. In addition, Nutrition, body composition, weight control and assessment will be covered.

**Rationale:** The class will be required of the Personal Training Concentration in the Department of Health Physical Education and Dance.

According to the U.S. Bureau of Labor Statistics, "Employment of fitness trainers and instructors is expected to grow by 24 percent from 2010 to 2020, faster than the average for all occupations. As businesses and insurance organizations continue to recognize the benefits of health and fitness programs for their employees, incentives to join gyms or other fitness facilities will increase the need for workers in these areas."

Increasingly, health clubs, hospitals, YMCAs, and the similar organizations are seeking trainers with degrees or concentrations in personal training rather than just certification.

Personal Training I will be offered in the fall semester and Personal Training II will be offered in spring.

**PE 827 Concepts of Personal Training II 3 Credits 3 Hours**

**Prerequisites:** PE 826 Personal Training I or Instructor Permission

**Description:**

This course is a continuation of PE 826, Personal Training I. There is an emphasis on advanced, specific training principles. Students will learn to design optimal exercise programs, workouts and/or training schedules that will improve both physical fitness and athletic performance. Students will examine the design and delivery of cardiovascular fitness programs, anaerobic training programs, and programs for special populations.

**Rationale:** The class will be required of the Personal Training Concentration in the Department of Health Physical Education and Dance.

According to the U.S. Bureau of Labor Statistics, "Employment of fitness trainers and instructors is expected to grow by 24 percent from 2010 to 2020, faster than the average for all occupations. As businesses and insurance organizations continue to recognize the benefits of health and fitness programs for their employees, incentives to join gyms or other fitness facilities will increase the need for workers in these areas."

Increasingly, health clubs, hospitals, YMCAs, and the similar organizations are seeking trainers with degrees or concentrations in personal training rather than just certification.

Personal Training I will be offered in the fall semester and Personal Training II will be offered in spring.

**DEPARTMENT OF MUSIC****MU-190 191 SPECIAL TOPICS in MUSIC 3 class hours, 3 credits**

**Prerequisites:** BE-122 (or BE-226), or satisfactory score on the CUNY/ACT Assessment Test. Fulfills the liberal arts (humanities) requirement for the A.A. and A.S. degrees.

**Description :**

This course will focus on a specific theme, style or idea in music to be announced in advance and will vary by semester. Students will have the opportunity to explore specific musical topics in depth, while developing intelligent listening habits and an understanding of significant concepts in musical thought and practice. Descriptions of the topic in a particular semester will be available prior to registration. Offered as needed.

**Rationale:** This course will expand the Music Department's offerings to both music majors (FA1) and students in other disciplines. MU100-level courses consistently reach (and often exceed) enrollment capacity, and are in high demand by students from disciplines across the college. This course will allow the Music Department flexibility in offering courses focusing on new topics, responding to both the

interest of the student body and reflecting the superior and diverse body of research that Music Department faculty are engaged in. The Music Department houses a skilled and knowledgeable faculty who remain active in their respective fields of research, and this course would allow Music Department faculty the ability to present courses that reflect the most recent scholarship in the discipline, as well as topics that are of particular interest or expertise to them.

## **2. REMOVAL of COURSES**

### **DEPARTMENT OF MUSIC**

#### **MU-205 Fundamentals of Music**

**Rationale:** Dormant

#### **MU-210 Elementary Sight Reading and Ear Training**

**Rationale:** This course is merged to MU209.

## **3. CHANGES IN COURSES**

### **DEPARTMENT OF HEALTH , PHYSICAL EDUCATION and DANCE**

**From: PE 543 Swimnastics** 1 credit, 2 hours

Water resistant exercises to increase cardiovascular endurance, muscular strength, and flexibility. A low impact aerobic workout for complete body conditioning and fitness.

**To: PE-543 Swim for Fitness** 1 credit, 2 hours

**Prerequisites and/or co-requisites:** Must be able to swim 25yards/freestyle without stopping.

Improvement of overall physical conditioning through swimming. Introduction to the fundamental principles of physical conditioning and their application to swimming. Under the instructor's direction and utilizing both traditional and novel aquatic activities, development of programs of conditioning will be designed to meet the student's personal needs. Restricted to intermediate and advanced swimmers.

**Rationale:** The purpose of this course is to help students develop a knowledge base about fitness concepts as they relate to swimming. This course also allows students to put the fitness concepts into practice as they develop individual workouts. It will also be designed as a complementary course to PE- 520/ Beginning Swimming and PE-521 Intermediate Swimming.

### **DEPARTMENT OF MUSIC**

#### **Rationale for all the changes appearing below:**

##### **Merging MU210 to MU209:**

##### **Rationale:**

MU 210 is a one-credit course that has traditionally served as a prerequisite course to more advanced work in sight reading and ear training. Its status as a prerequisite course meant that it has not been eligible to count toward the Music Concentration of the A.S. degree in Visual and Performing Arts. This course often slowed the progress of students in this degree program toward timely completion of the degree. Music faculty with expertise in the pedagogy of sight reading and ear training have concluded that the curriculum and learning objectives in this course can easily be brought into the curriculum of MU 209 (Musicianship II), without in any way slowing down or inhibiting students' abilities to master the

learning objectives of MU 209. In fact, the faculty believe that the sight reading and ear training curriculum in MU 210 would actually *enhance* student learning in MU 209 (when it is taught within MU 209, and not as a separate course), as the topics in MU 210 offer alternative techniques to reinforcing the concepts and skills presented in MU 209: ear training and sight reading work strengthen students' grasp of traditional topics in beginning music theory. The faculty believe that the MU 210 curriculum can very easily be incorporated into the curriculum of MU 209, with the two prime benefits suggested above: 1) students will finish their degrees in a more timely manner; and, 2) the concepts and skills they are working to acquire in MU 209 will be made easier to understand when their presentation is aligned and integrated *in the same class* with the topics of MU 210.

We therefore ask for the deletion of MU 210, permission to incorporate its curriculum and learning objectives into MU 209, and its removal as a prerequisite in the courses we are highlighting in our proposal.

### **MU209 Musicianship**

#### **From: MU-209 Musicianship II**

2 studio hours 1 class hour 1 lab hour

1 recitation hour 3 credits

**Prerequisite/[Co-requisite]:** MU-208 with a grade of C or better, or a satisfactory score on the Music Placement Test. [Co-requisite: MU-210 (Elementary Sight-Reading and Ear Training)]

[Note: MU-209 replaces MU-206 and MU-207]

A continuation of MU-208, focusing on developing further skills and fluency with fundamental elements of musical language, with regard to both performance and analysis. Applied topics include minor scales, diatonic harmony, seventh chords, more complex rhythmic structures, and musical composition.

#### **To: MU-209 Musicianship II**

2 studio hours 1 class hour 1 lab hour

1 recitation hour 3 credits

**Prerequisite:** MU-208 with a grade of C or better, or a satisfactory score on the Music Placement Test.

A continuation of MU-208, focusing on developing further skills and fluency with fundamental elements of musical language, with regard to both performance and analysis. Applied topics include minor scales, diatonic harmony, seventh chords, more complex rhythmic structures, and musical composition.

#### **Rationale:**

It is a mistake in the catalog to have MU208, which is a pre-requisite course for MU 209, to be listed as a possible 'co-requisite.' These two courses cannot be taken simultaneously, and this error in information needs to be corrected. Further, MU206 and 207 are no longer offered in the curriculum and this information is no longer pertinent. Finally, other changes are related to MU210 merging to MU209 and the rationale is given above.

### **MU231 Jazz Theory I**

**From:** 2 class hours 2 studio hours 3 credits

**[Offered in Fall.] Prerequisite:** MU-209 [and 210] with a grade of C or better, or satisfactory score on the Music Placement Test.

[Corequisite: MU-211.]

**To:** 2 class hours 2 studio hours 3 credits

#### **Offered as needed.**

Prerequisite: MU-209 with a grade of C or better, or satisfactory score on the Music Placement Test.

MU231 is recommended to be taken concurrently with MU211.

#### **Rationale:**

Jazz Theory I has had a history of low enrollment. Therefore, signifying it as 'offer as needed' is more appropriate to how this course is scheduled. Co-requisite of MU211 is changed to recommendation, in order to strengthen enrollment in this course. The curriculum in MU 211 is not vital to a student's success in MU 231.

### **MU211 Sight Reading and Ear Training I**

#### **From:**

2 studio hours 1 credit

Prerequisite: **MU-210** with a grade of C or better, or satisfactory score on the Music Placement Test.

Designed to develop the ability of the student to read and sing notation at sight and to understand the relationship between notation and sound.

[Should be taken simultaneously with either MU-241 (Music Theory and Keyboard Harmony I) [or MU-231 (Jazz Theory I).]

**To:** 2 studio hours 1 credit

Prerequisite: **MU209** with a grade of C or better or satisfactory score on the Music Placement Test.

MU211 is recommended to be taken concurrently with MU231 or MU241.

Designed to develop the ability of the student to read and sing notation at sight and to understand the relationship between notation and sound.

#### **Rationale for changes:**

If MU210 is merged into MU209, this course will no longer be offered and will not need to be listed as a prerequisite. The change in the language of the heading proposed is simply a clearer statement of the recommendation that this course be taken at the same time as either MU 231 or MU 241.

### **MU212 Sight Reading and Ear Training II**

**From:** 2 studio hours 1 credit

Prerequisite: MU-211 with a grade of **[C-]** or better.

Continuation of MU-211. [Should be taken simultaneously with MU-242 (Music Theory and Keyboard Harmony II) or MU-232 (Jazz Theory II)].

**To:** 2 studio hours 1 credit

Prerequisite: MU-211 with a grade of **C** or better.

MU212 is recommended to be taken concurrently with MU242.

Continuation of MU-211.

#### **Rationale:**

It is also a mistake in the catalog that the passing grade is C- instead of C, which is consistent with the rest of the department's sequential theory courses. The change in the language of the heading proposed is simply a clearer statement of the recommendation that this course be taken at the same time as MU 242.

### **MU241 Music Theory and Keyboard Harmony I**

**From:** 3 class hours 1 studio hour 3 credits

Prerequisite: MU-209[and 210] with a grade of C or better, or satisfactory score on the music placement test. [Corequisite: MU-211.]

An integrated approach to music; melody, elementary species counterpoint, and keyboard harmony.

#### **To:**

3 class hours 1 studio hour 3 credits

Prerequisite: MU-209 with a grade of C or

better, or satisfactory score on the music placement test. MU241 is recommended to be taken concurrently with MU211. An integrated approach to music; melody, elementary species counterpoint, and keyboard harmony.

**Rationale:**

As the main part of this revision, the curriculum of MU210 will be incorporated into that of MU209; therefore, its status as pre-requisite for MU241 is no longer valid. The change in the language of the heading proposed is simply a clearer statement of the recommendation that this course be taken at the same time as either MU211.

**MU242 Music Theory and Keyboard Harmony II**

**From:** 3 class hours 1 studio hour 3 credits.

Prerequisite: MU-241 with a grade of [C-] or better.

[Corequisite: MU-212.]

Continuation of diatonic counterpoint and harmony.

The emphasis is upon tonality and the interrelationship of rhythm, melody, and harmony.

The material studied is applied to the keyboard with parallel analysis of appropriate forms.

**To:** 3 class hours 1 studio hour 3 credits.

Prerequisite: MU-241 with a grade of C or better.

MU242 is recommended to be taken concurrently with MU212.

Continuation of diatonic counterpoint and harmony.

The emphasis is upon tonality and the interrelationship of rhythm, melody, and harmony.

The material studied is applied to the keyboard with parallel analysis of appropriate forms.

**Rationale:**

It is a mistake in the catalog that the passing grade is C- instead of C, which is consistent with the rest of the department's sequential theory courses. The Music Department faculty feel that MU212 should be *recommended* as a co-requisite to MU 242, but that it should not be required to be taken at the same time. A student's success in either course does not depend on whether or not the two classes are taken at the same time, and we therefore would like to offer greater flexibility to students as they plan their semester schedules. As long as the two courses are taken at some point, their degree requirements will be fulfilled.

**MU243 Music Theory and Keyboard Harmony III**

**From:** 3 class hours 1 studio hour 3 credits each course

Prerequisite: MU-242 with a grade of [C-] or better. [Corequisite: MU-213, 214.]

**To:** 3 class hours 1 studio hour 3 credits each course

Prerequisite: MU-242 with a grade of C or better.

**Rationale:**

It is a mistake in the catalog that the passing grade is C- instead of C, which is consistent with the rest of the department's sequential theory courses. In addition, the co-requisite requirements are being removed, because MU213 and MU214 are no longer offered. These courses have not been given in over 15 years, as there is never sufficient enrollment to run them.

**MU-312, 313, 314 Class Instruction in Piano II, III, IV**

**From:** 2 studio hours 1 credit each course

[Corequisite: MU-208, 209, or satisfactory score on the Music Placement Test.]

**To:** 2 studio hours 1 credit each course

Prerequisite for MU312: MU-208 with a grade of C, or satisfactory score on the Music Placement Test.

Prerequisite for MU313: MU 312, with a grade of C or satisfactory score on the Music Placement Test.

Prerequisite for MU314: MU313 with a grade of C, or satisfactory score on the Music Placement Test.

**Rationale:**

We would like to install a minimum requirement of the grade C for all sequential piano courses, in order for students to proceed to the next level. Spelling out each sequential piano course prerequisite will make it more clear for FA and MP students to register into avoid current confusions.

**MU-321, 322 Class Instruction in Voice I, II**

**From:** 2 studio hours 1 credit each course

[Corequisite: MU208, 209 or satisfactory score on the Music Placement Test.]

**To:** 2 studio hours 1 credit each course

Prerequisite for MU322: MU321

**Rationale:**

These classes were canceled a few times in the recent past, due to low enrollment. The Music Department faculty believe this is a result of the co-requisite requirement. Dr. Steven Dahlke, our vocal program director who is now in his third year at QCC, feels very strongly that these courses can be taught, and that students can succeed in them, without a musicianship course co-requisite. These are elective courses, not required for either curriculum (FA1 or MP2), and his feeling (supported by the unanimous opinion of the rest of the music faculty) is that the remedial theory requirement of MU208 and 209 is denying entrance to these courses to students who love to sing but have minimal theory training. As stated, he does not feel the theory training is necessary to a student's success in the courses. Therefore, taking out the co-requisite of MU208 and 209 will boost registration and open opportunities for students who want to sing, but who do not have room or time in their schedules to take MU208 or MU209. For the remaining revision, MU322 is the sequential vocal class following MU321, thus MU321 is required before taking MU322.

**MU411-414 Vocal Ensemble**

**From:** 2 studio hours 1 credit each course

[A small choral ensemble which performs music in various styles — spirituals, madrigals, jazz, popular, African, Asian, Latin and gospel.]

**To: MU414-414 Pop Choir**

2 studio hours 1 credit each course

A small vocal ensemble which rehearses and performs music in popular styles - jazz, pop, and musical theater. Pop Choir presents concerts at QCC and nearby community centers.

**Rationale:**

The course name Vocal Ensemble is a very general term which does not give any indication of the musical styles rehearsed and performed. For several semesters the Vocal Ensemble has been engaged in learning and performing only popular music. The course name Pop Choir would alert students to what repertoire is studied in class, and would set the course apart from the Music Department's other choir, Queensborough Chorus, which studies a broader repertoire.

**FROM: MU451-454 Collegium Musicum**

2 studio hours 1 credit each course

Offered as needed.

[Comprises a variety of small instrumental and/or piano ensembles. The Collegium Musicum studies and performs music from the Baroque, Classic, Romantic, and contemporary periods.]

**TO: MU451-454 Instrumental and Vocal Ensemble**

2 studio hours 1 credit each course

Offered as needed.

Comprises a variety of small instrumental and/or vocal ensembles. Students rehearse and perform music selected from Classical, Gospel, Broadway, Pop, Jazz and Contemporary styles.

**Rationale:** Collegium Musicum is an archaic term for chamber music and is no longer meaningful to students. The new title will reflect the small ensemble combinations and repertoire more specifically, and will be clearer to students who have interest in enrolling.

#### **On Catalog P. 192**

#### **MUSIC PLACEMENT TEST**

**From:** Students wishing to take certain performance and theory courses in music must demonstrate basic skills in elementary theory, keyboard, and ear-training. They may demonstrate these skills either by passing the Music Placement Test or by completing the music fundamentals courses (MU-208, 209, **210**).

**To:** Students wishing to take certain performance and theory courses in music must demonstrate basic skills in elementary theory, keyboard, and ear-training. They may demonstrate these skills either by passing the Music Placement Test or by completing the music fundamentals courses (MU-208 **or 209**).

#### **Rationale:**

Reference to MU210 is removed, as we are proposing its deletion.

### **DEPARTMENT of SOCIAL SCIENCES**

#### **Rationale:**

### **DEPARTMENT of ENGINEERING TECHNOLOGY**

#### **Course Revision: ET-375 Robotics**

**From:** ET-375 Introduction to Robotics

Prerequisite: [ET-510 or ET 540 or ET-110] or permission of the [ECET] Department

**To:** ET-375 Introduction to Robotics

Prerequisite: ET-110 and either ET-510 or ET-540, or permission of the ET Department

**Rationale:** In order to approach the topics at an appropriate level for most students, it is advisable for students to have taken both a course in introductory circuits and digital circuits. The department name has changed to Engineering Technology (ET).

**Course Revisions: MT 122, 125, 219, 293, 341,453,  
484,486,488,489,490,492,500,513,514,900,991,992,993**

#### **Rationale:**

The Engineering Technology Department at its March 13th meeting unanimously approved the attached submissions to the Academic Senate Curriculum Committee. After the merger of the ECET and MTDD Departments it became apparent that many of the catalog course descriptions were not accurate and that many of the prerequisites needed revision. These changes address these weaknesses.

**From:** MT-122 Manufacturing Processes

*2 class hours 3 laboratory hours 3 credits*

*[Co-requisite: MA-010, or satisfactory score on the Mathematics Placement Test, or permission of the Department.]*

Production techniques in manufacturing, including introduction to materials, gaging, machining, welding, casting and molding, forming and finishing processes. Laboratory practice in the use of hand tools, machine tools, and precision measuring instruments.



**To:** MT-122 Manufacturing Processes

*2 class hours 3 laboratory hours 3 credits*

Production techniques in manufacturing, including introduction to materials, gaging, machining, welding, casting and molding, forming and finishing processes. Laboratory practice in the use of hand tools, machine tools, and precision measuring instruments.

**Rationale:**

The co-requisite is written in error. All necessary math skills are covered as part of the lecture portion of the class, making the co-requisite unnecessary.

**From:** MT-125 Metallurgy and Materials Laboratory

*3 laboratory hours 1 credit*

*Co-requisite: MT-124*

The laboratory complement to MT-124. Students perform “hands-on” experiments that emphasize the major topics discussed in MT-124. [Experiments include hardness of materials, concrete slump test, metallographical methods in the study of the recrystallization of alpha brass, solidification of lead-tin alloys, the metallography of plain carbon steels, the Jominy bar test and non-destructive inspection techniques]. Students will be required to produce formal laboratory reports [for selected experiments] and deliver oral presentations.

**To:** MT-125 Metallurgy and Materials Laboratory

*3 laboratory hours 1 credit*

*Co-requisite: MT-124*

The laboratory complement to MT-124. Students perform “hands-on” experiments that emphasize the major topics discussed in MT-124. Students will be required to produce formal laboratory reports and deliver oral presentations.

**Rationale:**

Experiments in the Metallurgy and Materials Lab are continually being updated and improved. A specific list of experiments is generally out of date. Further, students write formal reports for all experiments, not selected experiments. Finally, there should be no surprise when the oral presentations are assigned.

**From:** MT-219 Surveying and Layouts

*2 class hours 3 laboratory hours 3 credits*

[*Co-requisite: MA-010, or satisfactory score on the Mathematics Placement Test, or permission of the Department*]

Principles and practice of elementary surveying. Use, adjustment, and care of surveying instruments. Field work in practical application of surveying techniques; measurement of distances, angles, and elevations. Computation and mapping of closed traverses. Use of topographical maps. Scientific calculator required.

**To:** MT-219 Surveying and Layouts

*2 class hours 3 laboratory hours 3 credits*

Principles and practice of elementary surveying. Use, adjustment, and care of surveying instruments. Field work in practical application of surveying techniques; measurement of distances, angles, and elevations. Computation and mapping of closed traverses. Use of topographical maps. Scientific calculator required.

**Rationale:**

The co-requisite is written in error. All necessary math skills are covered as part of the lecture portion of the class, making the co-requisite unnecessary.

**From:** MT-293 Parametric Computer[-]Aided Design [Drafting]

*1 lecture hour, 2 recitation hours 3 laboratory hours 3 credits*

[Co-requisite: 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.]  
Use of mechanical design software to build parametric models of parts and assemblies. Students create parts using techniques such as extrude, revolve and sweep. Emphasis is on the concepts of design intent and scalability. Assemblies are created using appropriate geometric constraints. Theory of engineering graphics is covered so that appropriate working drawings can be created from the parametric models.  
Introduction to the theory and practice of basic engineering drawing and blueprint reading. Multi-view projection including sectional and auxiliary views. Principles of dimensioning.

**To:** MT-293 Parametric Computer Aided Design

*1 lecture hour, 2 recitation hours 3 laboratory hours 3 credits*

Use of mechanical design software to build parametric models of parts and assemblies. Students create parts using techniques such as extrude, revolve and sweep. Emphasis is on the concepts of design intent and scalability. Assemblies are created using appropriate geometric constraints. Theory of engineering graphics is covered so that appropriate working drawings can be created from the parametric models.  
Introduction to the theory and practice of basic engineering drawing and blueprint reading. Multi-view projection including sectional and auxiliary views. Principles of dimensioning.

**Rationale:**

The course name is shortened to emphasize the design nature of the course. The co-requisite is being deleted and the requisite knowledge from MT-111 being added to this course. This is in preparation for the possibility of transitioning to a completed computer based curriculum. The course description has been updated to provide more specific information for those students who transfer, maximizing the potential for full transfer credit.

**From:** MT-341 Applied Mechanics

*[2 class hours 2 recitation hours] 3 class hours 3 credits*

Pre-requisite: MA-114 with a grade of C or better

[Fundamentals of analytical mechanics. Study of physical concepts and principles of statics of particles and rigid bodies. Introduction to dynamics. Application of basic force systems and free-body diagrams to mechanical devices and structures.]  
Vector treatment of the static equilibrium of particles and rigid bodies. Equivalent force and couple systems. Distributed force systems. Application of basic analytical techniques to mechanical devices and structures. Centroids, center of gravity, moments of inertia.  
Friction and impending motion.

**To:** MT-341 Applied Mechanics

*3 class hours 3 credits*

Pre-requisite: MA-114 with a grade of C or better

Vector treatment of the static equilibrium of particles and rigid bodies. Equivalent force and couple systems. Distributed force systems. Application of basic analytical techniques to mechanical devices and structures. Centroids, center of gravity, moments of inertia. Friction and impending motion.

**Rationale:**

Improved coordination between the Engineering Technology department, the Math Center and the Tutoring center has made recitation hours unnecessary. The course description has been updated to provide more specific information for those students who transfer, maximizing the potential for full transfer credit.

**From:** MT-453 Piping Systems

[2 class hours 4 laboratory hours] 3 class hours 3 credits

*Prerequisite: MT-488*

Design and layout of piping systems and related equipment for heat power, heating, air conditioning, and petrochemical industries. National piping and pressure vessel codes utilized in conjunction with manufacturers' catalog data and piping handbook. Use of [three-dimensional computer-aided design drafting system for] piping software is introduced. [and associated equipment layout.]

**To:** MT-453 Piping Systems

3 class hours 3 credits

*Prerequisite: MT-488*

Design and layout of piping systems and related equipment for heat power, heating, air conditioning, and petrochemical industries. National piping and pressure vessel codes utilized in conjunction with manufacturers' catalog data and piping handbook. Use of piping software is introduced.

**Rationale:**

To remain current with industry trends, the emphasis of the course is being shifted more towards design aspects and less towards drafting aspects. Design principles are explained during lecture, and as such the number of lecture hours has been increased. Practical design examples are assigned as homework, making the lab component of the course redundant.

**From:** MT-484 Construction Methods [with CAD Applications]

*1 lecture hour 2 recitation hours 3 laboratory hours 3 credits*

*Prerequisite: [MT-111 and] MT-488.*

Construction elements and materials used in the building industry. Types of framing and assembly systems for commercial buildings. [Manual and CADD work on] preparation of working drawings to code, with [a] an emphasis on comprehension of the total building process. This course assists in the production of a design studio portfolio.

**To:** MT-484 Construction Methods

*1 lecture hour 2 recitation hours 3 laboratory hours 3 credits*

*Prerequisite: MT-488.*

Construction elements and materials used in the building industry. Types of framing and assembly systems for commercial buildings. Preparation of working drawings to code, with an emphasis on comprehension of the total building process. This course assists in the production of a design studio portfolio.

**Rationale:**

The course name is modified because "CAD Applications" is superfluous. The pre-requisites have been adjusted in preparation for the transition to a completely computer based curriculum.

**From:** MT-486 [AutoCAD Architect for] Architectural Design II

[3] 2 class hours 3 laboratory hours [4] 3 credits

Pre-requisite: [MT-488, Co-requisite: MT-484 or Permission of the Department] MT-481

[In depth use of AutoDesk Architectural Desktop software for the creation of architectural designs, professional prints and presentation drawings. Topics include: using the double wall and wall break tools in floor plans, inserting doors, windows and other elements from the software library, extruding designs into 3D, implementing the 3D roof generator, stair generator and producing wall sections, building sections and perspective views.] A continuation of the design concepts begun in MT-481. Students create advanced architectural designs, professional prints and presentation drawings. Use of advanced software is introduced. Design problems are structured so as to necessitate the resolution of multiple issues simultaneously and interdependently. This course assists in the production of a design studio portfolio.

**To:** MT-486 Architectural Design II

2 class hours 3 laboratory hours 3 credits

Pre-requisite: MT-481

A continuation of the design concepts begun in MT-481. Students create advanced architectural designs, professional prints and presentation drawings. Use of advanced software is introduced. Design problems are structured so as to necessitate the resolution of multiple issues simultaneously and interdependently. This course assists in the production of a design studio portfolio.

**Rationale:**

This course is being re-branded to emphasize the design content rather than the particular tools being used. This will benefit transfer students, who are more likely to get full credit from all schools considered. The course name is modified to emphasize that change and to recognize that there is a complementary course. Since the course is more of a hands-on nature where the instructor talks with each student individually, the number of lecture hours has been reduced. 3 credits is more appropriate for the course content than four.

**From:** MT-488 Computer[-]Aided Design [Drafting (CADD)] I

1 class hour 2 recitation hours 3 laboratory hours 3 credits

[Corequisite: MT-111 or permission of the Dept.]

[Introduction to the use of computer hardware and software for design drafting. Applications of computer-aided design drafting for increasing productivity. Concepts, commands, and parameters involved in CADD systems. Students generate working drawings by interacting with the computer using graphics display terminals, light pen, tablet digitizer, function keyboard, and plotter.] A general overview of how CAD operates in a modern design environment. Introduction to major commercial CAD software. Production of two dimensional images of design concepts. [Problems chosen to develop recognition and skill in such areas as orthographics, auxiliaries, sections, intersections and developments. . ] Introduction to the theory and practice of basic engineering drawing and blueprint reading. Multi-view projection including sectional and auxiliary views. Principles of dimensioning.

**To:** MT-488 Computer Aided Design I

1 class hour 2 recitation hours 3 laboratory hours 3 credits

A general overview of how CAD operates in a modern design environment. Introduction to major commercial CAD software. Production of two dimensional images of design concepts. Introduction to the theory and practice of basic engineering drawing and blueprint reading. Multi-view projection including sectional and auxiliary views. Principles of dimensioning.

**Rationale:**

The course name is shortened to emphasize the design nature of the course. The co-requisite is being deleted and the requisite knowledge from MT-111 being added to this course. This is in preparation for the possibility of transitioning to a completed computer based curriculum. The course description has been updated to provide more specific information for those students who transfer, maximizing the potential for full transfer credit.

**From:** MT-489 [Advanced] Computer[-]Aided Design [Drafting (ADCADD)] II

*1 class hour 2 recitation hours 3 laboratory hours 3 credits*

*Prerequisite: MT-488.*

Further development of CAD[D] principles and concepts. [applications with respect to three-dimensional views; orthographic and isometric views, rotation and translation of parts in space. Generation of surface forms and intersection of surfaces. Construction of three-dimensional assembly drawings.] Design problems chosen from mechanical and architectural applications.

**To:** MT-489 Computer Aided Design II

*1 class hour 2 recitation hours 3 laboratory hours 3 credits*

*Prerequisite: MT-488.*

Further development of CAD principles and concepts. Design problems chosen from mechanical and architectural applications.

**Rationale:**

The course name is shortened to emphasize the design nature of the course. The course description has been updated to provide more specific information for those students who transfer, maximizing the potential for full transfer credit.

**From:** MT-490 Advanced Architectural [3D] Modeling [with AutoDesk VIZ]

*3 class hours [3 laboratory hours] [4] 3 credits*

*[Co-requisite: MT-486 and MT-500 or Permission of the Department]*

*Pre-requisite: MT-488*

Practical application of [AutoDesk VIZ] advanced architectural software to the generation of 3D models, rendering and the creation of animated visuals for architectural designs. Topics include: creating designs in 3D space [using tools such as the 2D shaper and 3D lofter], editing 3D designs, viewing objects in 3D space, setting lights, cameras, applying color and materials to surfaces, background color and objects; rendering creation of scenes tracking animation and walk-throughs.

This course assists in the production of a design studio portfolio.

**To:** MT-490 Advanced Architectural Modeling

*3 class hours 3 credits*

*Pre-requisite: MT-488*

Practical application of advanced architectural software to the generation of 3D models, rendering and the creation of animated visuals for architectural designs. Topics include: creating designs in 3D space, editing 3D designs, viewing objects in 3D space, setting lights, cameras, applying color and materials to surfaces, background color and objects; rendering creation of scenes tracking animation and walk-throughs. This course assists in the production of a design studio portfolio.

**Rationale:**

This course is being re-branded to emphasize the design content rather than the particular tools being used. This will benefit transfer students, who are more likely to get full credit from all schools considered. The course name is modified to emphasize that change. Design principles are explained

during lecture. Practical design examples are assigned as homework, making the lab component of the course redundant.

**From:** MT 492 Introduction to Virtual Automation

*1 class hour 3 Laboratory hours 2 credits*

[Prerequisites: MT-161] Pre- or Co- requisite: Either MT-293 or MT-369 Offered in Spring

A study of the principles and practices involved in conceiving, designing, producing and measuring products quickly and effectively, using the latest RP (Rapid Prototyping) methods and CMM (Coordinate Measuring Machines) technology. Students will learn Stereolithography Technology on a Z Corporation's 3D printer. Students will be instructed in the latest techniques in quality control and operate a Zeiss CNC controlled CMM.

**To:** MT 492 Introduction to Virtual Automation

*1 class hour 3 Laboratory hours 2 credits*

Pre- or Co- requisite: Either MT-293 or MT-369 Offered in Spring

A study of the principles and practices involved in conceiving, designing, producing and measuring products quickly and effectively, using the latest RP (Rapid Prototyping) methods and CMM (Coordinate Measuring Machines) technology. Students will learn Stereolithography Technology on a Z Corporation's 3D printer. Students will be instructed in the latest techniques in quality control and operate a Zeiss CNC controlled CMM.

**Rationale:**

Pre-requisite is listed in error.

**From:** MT-500 Principles of CAD Management

[1] 3 class hours [2 recitation hours 3 laboratory hours] 3 credits

[Co-requisite: MT-486 and MT-490 or Permission of the Department]

Pre-requisite: MT-488 or MT-293

A study of the computer management skills needed by the [architectural] CAD professional. [working in today's shared network environment.] Topics include: templates, managing access to software and files, mapping network drives, organizing jobs and folders, [managing via the AutoDesk design center,] profiles, custom icon and command creation. [, installation and maintenance of AutoDesk software packages, installing plotters.]

**To:** MT-500 Principles of CAD Management

3 class hours 3 credits

Pre-requisite: MT-488 or MT-293

A study of the computer management skills needed by the CAD professional. Topics include: templates, managing access to software and files, mapping network drives, organizing jobs and folders, profiles, custom icon and command creation.

**Rationale:**

The course description is being updated to benefit transfer students, who are more likely to get full credit from all schools considered. A lab component is not necessary for a course such as this. The number of credits has been adjusted to a more appropriate number.

**From:** MT-513 Thermo-Fluid Systems

*2 class hours 2 recitation hours 3 credits*

*Offered in [Fall] Spring.*

Prerequisites: [MT-341, MA-128 or MA-441] MT-345 with a grade of C or better

*Corequisites: [MT-368,] MT-514*

An integrated approach to thermodynamics and fluid mechanics principles, emphasizing the ways in which different types of energy are converted from one form to another. [The associated fluid machinery and equipment required to convey and utilize energy.] Topics include thermo fluid properties, work and heat transfer in a thermal system, properties of fluids, fluid statics, flow of real incompressible fluids, laws of thermodynamics, steady flow process, pipe flow, impulse momentum principle, introduction to thermoelectric, thermionic converters and electrochemical fuel cells.]

**To:** MT-513 Thermo-Fluid Systems

*2 class hours 2 recitation hours 3 credits*

*Offered in Spring.*

*Prerequisites: MT-345 with a grade of C or better*

*Corequisites: MT-514*

An integrated approach to thermodynamics and fluid mechanics principles, emphasizing the ways in which different types of energy are converted from one form to another. Topics include thermo fluid properties, work and heat transfer in a thermal system, properties of fluids, fluid statics, flow of real incompressible fluids, laws of thermodynamics, steady flow process, pipe flow.

**Rationale:**

Pre-requisites were listed in error. Not all those courses are required background knowledge. Co-requisite listed in error a course that does not exist. Course description updated to more accurately reflect the course offering. Semester offering listed in error.

**From:** MT-514 Thermo-Fluid Systems Laboratory

*3 laboratory hours 1 credit Offered in [Fall] Spring.*

*Corequisite: MT-513*

Laboratory practice in the use and calibration of instruments. Engineering tests of energy systems, fluid machinery, heat transfer, heat balances, digital data acquisition.

**To:** MT-514 Thermo-Fluid Systems Laboratory

*3 laboratory hours 1 credit Offered in Spring.*

*Corequisite: MT-513*

Laboratory practice in the use and calibration of instruments. Engineering tests of energy systems, fluid machinery, heat transfer, heat balances, digital data acquisition.

**Rationale:**

Semester offering listed in error.

**From:** MT-900 Cooperative Education/Design Projects in [Mechanical] Engineering Technology [and Design Drafting]

*1 class hour plus appropriate work experience*

*3 credits Offered as needed.*

*Open only to matriculated students who have completed at least 12 pertinent credits in [the Mechanical] and Engineering Technology [or the Computerized Architectural and Industrial Design] related curricula*

Students enrolled in the cooperative education experience are required to complete a project. Projects are formulated by the student and instructor and may include:

- employment experience or internship
- research on a topic or development of a design

Students participate in a weekly seminar and complete an additional minimum of 90 hours per semester. Students participating in internships submit complete written reports, related to the work experience. Students who complete research or design projects submit a written report containing a complete set of design prints and project descriptions. Students receive a grade or pass or fail.

**To:** MT-900 Cooperative Education/Design Projects in Engineering Technology

*1 class hour plus appropriate work experience*

*3 credits Offered as needed.*

*Open only to matriculated students who have completed at least 12 pertinent credits in an Engineering Technology related curricula*

Students enrolled in the cooperative education experience are required to complete a project. Projects are formulated by the student and instructor and may include:

- employment experience or internship
- research on a topic or development of a design

Students participate in a weekly seminar and complete an additional minimum of 90 hours per semester.

Students participating in internships submit complete written reports, related to the work experience.

Students who complete research or design projects submit a written report containing a complete set of design prints and project descriptions. Students receive a grade or pass or fail.

**Rationale:**

The course title and description have been updated to reflect the ET/MT merger and provide consistency between similar courses in each curriculum.

**From:** ET-991, 992, 993 Cooperative Education in [Electrical and Computer] Engineering Technology

*1 class hour plus appropriate work experience for each credit; 1 credit each course*

*Open only to matriculated students who have achieved a minimum grade-point average of 2.0 in their major field of study; have completed at least 12 pertinent credits in an [the Electronic or Computer] Engineering Technology related curricula; and are recommended and approved by the chairperson of the Department and the coordinator of Cooperative Education.*

The cooperative education experience in [Electronic or Computer] Engineering Technology includes employment in a field experience which supplements classroom theory and laboratory instruction with related on-the-job professional training. Students are placed in a work situation for 45 hours, participate in a monthly seminar, and submit a term project related to the work experience. A written evaluation is provided by the employer. Students receive a grade of Pass or Fail.

**To:** ET-991, 992, 993 Cooperative Education in Engineering Technology

*1 class hour plus appropriate work experience for each credit; 1 credit each course*

*Open only to matriculated students who have achieved a minimum grade-point average of 2.0 in their major field of study; have completed at least 12 pertinent credits in an Engineering Technology related curricula; and are recommended and approved by the chairperson of the Department and the coordinator of Cooperative Education.*

The cooperative education experience in Engineering Technology includes employment in a field experience which supplements classroom theory and laboratory instruction with related on-the-job professional training. Students are placed in a work situation for 45 hours, participate in a monthly seminar, and submit a term project related to the work experience. A written evaluation is provided by the employer. Students receive a grade of Pass or Fail.

**Rationale:**

The course title and description have been updated to reflect the ET/MT merger and provide consistency between similar courses in each curriculum.





#### 4. New Programs or Concentrations

## DEPARTMENT of ART and DESIGN

### New Art History Concentration in Visual and Performing Arts – Associate in Science (A.S.) Degree (formerly Fine and Performing Arts)

**Rationale:** Art and Design Concentration" listed in the catalog. Amongst the choices are sufficient art history courses, which when elected could form a concentration of 20-26 credits. We propose to aggregate them into a separate option, and call it an "Art History Concentration." We offer a broad range of art history courses, but students may not realize that they can create a concentration in them. We are not seeking to modify the degree itself so much as create a clear option for those interested in Art History as a path of study.

## Programs of Study in Visual and Performing Arts

Students interested in art and design, **art history**, dance, music, photography, theatre, and other visual and performing arts have a rich selection of degree programs and one certificate program from which to choose. The Gallery and Museum Studies degree program draws upon the resources of Queensborough's Art Gallery. The degree in Visual and Performing Arts offers performing and exhibiting opportunities in art and photography, dance, music and theatre. The degree programs in digital art and design and in music production (formerly Music Electronic Technology) combine technology with the arts. The course work for the certificate program can be applied to one of the A.S. degree programs in Visual and Performing Arts.

Students are encouraged to discuss their educational goals with advisers and to explore the *articulation agreements* between Queensborough's degree programs and baccalaureate programs in CUNY and in the New York metropolitan area. First time, full-time students enrolled in these degree programs will enter Queensborough in the Visual and Performing Arts Academy.

- A.S. Degree in Gallery and Museum Studies (AM1) Transfer program
- A.S. Degree in Visual and Performing Arts (FA1) Transfer program
  - Concentrations:
    - Art and Design
    - **Art History**
    - Dance
    - Music
    - Theatre Arts
    - Interdisciplinary
- A.A.S. Degree in Digital Art and Design (DA2)
- A.A.S. Degree in Music Production (MP2) (formerly Music Electronic Technology)
- Certificate in Photography (AP3)

## Visual and Performing Arts – Associate in Science (A.S.) Degree (formerly Fine and Performing Arts)

### Concentrations in Art and Design • Art History • Dance • Music • Theatre Arts • Interdisciplinary This

curriculum is designed for students who wish to

1. Specialize in an area of the fine or performing arts:

*Art and Design, Art History, Dance, Music, Theatre Arts*

or

2. Take a mixed combination of courses forming an

*Interdisciplinary* program. Students selecting this option will be advised by a committee made up of faculty in the areas chosen.

**Please Note:** Students choosing either option are urged to consult with the faculty of the department or departments in which they are interested for guidance and information in the development of their programs.

In addition, in order to have an Academic Summary Form that accurately reflects which of the six options (Art and Design, Art History, Dance, Music, Theatre Arts, or Interdisciplinary) a student is following, he or

she must indicate the option on the Field of Major Interest form (FOMI) completed at the time of admission and inform the adviser as well.

**REQUIREMENTS FOR THE A.S. DEGREE**

**GENERAL EDUCATION CORE REQUIREMENTS Credits**

English Composition I, II (EN-101, 102) .....	6
Foreign Language and/or Liberal Arts and Sciences:** .....	6-8

**(a) Foreign Language (3 to 8 credits)**

1. Students who present 2 or more high school units of a foreign language will be required to:

(a) take 3-4 credits of the same foreign language (level determined by students' previous knowledge and/or performance on departmental placement exam), or

(b) 6-8 credits in another foreign language (level and sequence of courses determined by students' previous knowledge and/or performance on departmental placement exam).

(Note: All Visual and Performing Arts students must complete at least 3 foreign language credits.)

2. Students who present less than 2 high school units of the same language will be required to take 6-8 credits of the same or a different foreign language.

**(b) Liberal Arts and Sciences (0 to 5 credits)**

Mathematics (MA-119, 301, 303, 321, 336, 440, or 441) .....	3-4
Laboratory Science .....	4-5

To be chosen in accordance with  
laboratory science requirements.\*\*

Health Education HE-101 or 102 .....	1-2
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History (one course selected from HI-110, 111, or 112) .....	3
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One course in Physical Education or Dance from the PE-400, 500, or DAN-100 series .....	1
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Speech Communication (SP-211) .....	3
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Art (AR- 300 series);*	
------------------------	--

or Dance (DAN-111);*	
----------------------	--

or Music (MU- 100 series);*	
-----------------------------	--

or Speech Communication and Theatre Arts (SP-471, 472, or TH-111 (formerly SP-532)* .....	3
--	---

<u>Social Sciences elective, ** .....</u>	<u>3</u>
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Sub-total 33-38

## REQUIREMENTS FOR THE MAJOR

### CONCENTRATION IN

ART AND DESIGN, **ART HISTORY**, DANCE,  
MUSIC, THEATRE ARTS, OR  
INTERDISCIPLINARY PROGRAM .....20-26

Concentration courses are chosen in consultation with the adviser from offerings of the Departments of Art and Design; Health, Physical Education, and Dance; Music; and Speech Communication and Theatre Arts.

A detailed listing of courses fulfilling the requirements for each concentration is outlined below.

Students selecting this diverse two-year program will set a firm foundation for their future studies in the arts and will enjoy taking advanced courses in their specialization during the first two years of college, an advantage not always available in a four-year college.

### ELECTIVES

Free electives.\*\* .....1-2  
**Total Credits Required** .....60

*\* A student concentrating in one area must take this requirement in another area. For example, a student concentrating in Art and Design will choose Music, Dance, or Theatre Arts to fulfill this requirement.*

*\*\* See section on Understanding Program Requirements.*

**Please Note:** Students who take a minimum number of credits in the General Education core must make up the difference by taking additional credits in the Concentration in order to fulfill the total 60-credit requirement for the degree.

## CONCENTRATIONS

Courses may be selected from the following categories to fulfill the 20-26 credit concentration in the Fine and Performing Arts.

### INTERDISCIPLINARY CONCENTRATION

Students with specific educational and career goals in the fine and performing arts may select an interdisciplinary concentration. Students following an interdisciplinary concentration **must be guided by a special advisory committee**, composed of members of the faculty from each of the departments making up the interdisciplinary concentration.

**Two (2) Writing Intensive classes are required for the Associate degree.** See page 71.

*Sections of the following courses denoted as "WI" may be taken to partially satisfy the Writing Intensive Requirement:  
AR-310, 311, 312, 320; MU-110; SP- 142, 433, SP-275, 434, TH-111 (formerly SP-532) TH-120 (formerly SP-531), TH-221 (formerly SP-536); DAN-111; BI-140, 202; GE-101, 125; CH-101/102, CH-110, 111; MA-301, 321; ECON-101, 102, SOC-101, 230, 275, PLSC-101, 180, PSYC-101, 220, PHIL-101, 130, 140; HI-110, 111, 112, 127, 128; LF/LG/LI/LS 401, 402; HE-102; PH-110*

## ART AND DESIGN CONCENTRATION

*Students select 20-26 credits in consultation with a departmental adviser as follows:*

### **Six (6) credits from:**

AR-310 Introductory Survey of Art  
AR-311, 312 History of Art I, II  
AR-315 Modern Art  
AR-316 American Art  
AR-317 History of Photography  
AR-320 Contemporary Art  
AR-326 History of Asian Art

### **14-20 credits from:**

AR-121 Two-Dimensional Design  
AR-122 Three-Dimensional Design: Introduction to Sculpture  
AR-123 Interior Design and Decoration  
AR-148 Color Theory  
AR-230 Sculpture  
AR-231, 232 Ceramics I, II  
AR-251, 252 Drawing I, II  
AR-253 Drawing III: Illustration  
AR-261, 262, 263 Painting I, II, III  
AR-271, 272 Art for Teachers of Children  
AR-280 Introduction to Art Therapy  
AR-315 Modern Art  
AR-316 American Art  
AR-317 History of Photography  
AR-320 Contemporary Art  
AR-325 History of Graphic Design  
AR-326 History of Asian Art  
AR-328 History of African Arts  
AR-461 Introduction to Photography  
AR-462 Advanced Photographic Skills  
AR-463 Large Format and Studio Photography  
AR-464 Photography as Fine Art  
AR-465 Creating The Documentary Image  
AR-466 Color Photography  
AR-468 Photographing People  
AR-469 Illustration and Fashion Photography  
AR-473 Electronic Imaging  
AR-474 Digital Photography  
AR-480, 481 Special Problems in Studio Art  
AR-483 Portfolio Project in Studio Art  
AR-510 Printmaking: Relief and Stencil  
AR-511 Printmaking: Intaglio  
AR-541 Advertising Design and Layout  
AR-543 Design for Desktop Publishing  
AR-544 Design for Motion Graphics  
AR-641 Introduction to Video Art  
AR-642 Web-Animation  
AR-801 Art Administration  
AR-803 Art Curating  
AR-804 Art Institutions and the Business of Art  
AR-901, 902 Gallery Internship I, II  
AR-903, 904 Artist Apprentice Internship I, II

## ART HISTORY CONCENTRATION

*Students select 20-26 credits in consultation with a departmental advisor as follows:*

### **Six (6) credits from:**

AR-311 History of Art I,  
AR-312 History of Art II

**14-20 credits from follows (One Art Studio course may be substituted for an Art History course in consultation with Department Advisor):**

AR-315 Modern Art  
AR-316 American Art  
AR-317 History of Photography  
AR-320 Contemporary Art  
AR-325 History of Graphic Design  
AR-326 History of Asian Art  
AR-328 History of African Arts  
AR-801 Art Administration  
AR-901, 902 Gallery Internship I, II  
AR-901, 902 Gallery Internship I, II

## **MUSIC CONCENTRATION**

*Students select 20-26 credits in consultation with a departmental advisor as indicated below.*

**The following courses are required:**

MU-110 Introduction to Music, or  
MU-120 Survey of Western Music  
MU-241, 242 Music Theory and Keyboard Harmony I, II or  
MU-231, 232 Jazz Theory I, II  
MU-211, 212 Sight Reading and Ear Training I, II  
MU-312 Piano II

**Two credits selected from the:** MU-400 series

The remaining 6-12 credits may be selected from any courses in the Department of Music, including those above not already taken, with the exception of MU-208, 209, 210, and 261.

Please note that MU-208 replaces MU-205 and MU-311, and MU-209 replaces MU-206 and MU-207.

## **DANCE CONCENTRATION**

*In consultation with a departmental adviser, students may select 20-26 credits from any of the following courses:*

DAN-100 Beginning Modern Dance  
DAN-101 Beginning Ballet  
DAN-102 Jazz Dance  
DAN-103 African and Afro-Caribbean Dance  
DAN-104 Musical Theater Dance  
DAN-105 Music Video Dance  
DAN-106 Latin Dance  
DAN-107 Social, Folk and Square Dance  
DAN-110 Foundations of Dance Movement  
DAN-111 Introduction to the Art of Dance  
DAN-112 Dance in the Twentieth Century  
DAN-113 History of African Dance Forms  
DAN-114 Dance on Stage and Film  
DAN-120 Beginning Modern Dance for Majors  
DAN-121 Advanced Beginning Modern Dance I  
DAN-122 Advanced Beginning Modern Dance II  
DAN-123 Advanced Beginning Modern Dance III  
DAN-130 Beginning Ballet for Majors  
DAN-131 Advanced Beginning Ballet I  
DAN-132 Advanced Beginning Ballet II  
DAN-133 Advanced Beginning Ballet III  
DAN-140 Advanced Beginning Jazz Dance  
DAN-220 Intermediate Modern Dance I  
DAN-221 Intermediate Modern Dance II  
DAN-222 Intermediate Modern Dance III  
DAN-230 Intermediate Ballet I  
DAN-231 Intermediate Ballet II  
DAN-232 Intermediate Ballet III  
DAN-250 Modern Dance Improvisation  
DAN-251 Theory and Practice of Modern Dance  
DAN-252 Contact Improvisation  
DAN-260 Dance Workshop I  
DAN-261 Dance Workshop II  
DAN-262 Dance Workshop III  
DAN-270 Special Topics in Modern Dance I  
DAN-271 Special Topics in Modern Dance II  
DAN-272 Special Topics in Modern Dance III

## **PROGRAM OF STUDY THEATRE ARTS CONCENTRATION**

*In consultation with a departmental adviser, students may select 20-26 credits as indicated below:*

**The following courses are required (12 credits):**

TH-121 Introduction to Acting for the Major (Formerly SP-531)  
TH-151 Voice and Movement for the Actor (Formerly SP-142)  
TH-131 Stagecraft I (Formerly SP-561)  
TH-132 Practicum in Stagecraft I (Formerly SP-555)  
TH-111 Introduction to Theatre (Formerly SP-532)

**One of the following courses (3 Credits):**

TH-221 Acting II (Formerly SP-536)  
TH-231 Stagecraft II (Formerly SP-562)  
TH-152 Standard Speech for Stage, Film, Television & Digital Media

**The remaining 5-11 credits may be selected from any courses**

**in the Department of Speech Communication and Theatre Arts, including those above not already taken.**

- EN-302 Readings in Drama
- SP-230 Video Production I
- SP-321 Oral Performance for the Actor and Speaker
- TH-134 Stage Makeup
- TH-232 Practicum in Stagecraft II (Formerly SP-556)
- TH-122, 222 Actors Workshop I & II (Formerly SP-553, 554) .....
- TH-133, 233 Theatre Production and Design I & II (Formerly SP-551, 552)
- SP-274 Introduction to Electronic Media
- SP-275 Media Criticism
- SP-471, 472 American Film History I, II

**DEPARTMENT of HEALTH, PHYSICAL EDUCATION and DANCE**

**NEW CONCENTRATION in AA Degree Program LA1 -Concentration in Personal Training**

<p>****CONCENTRATION PROGRAM REQUIREMENTS – Liberal Arts and Sciences</p> <p>Personal Training – To complete a concentration in Personal Training , students must complete the major requirements below:</p> <ul style="list-style-type: none"> <li>• Two Foreign Language courses (<i>two sequential courses are required, level and sequence to be determined by department placement</i>)</li> <li>• HI-110 or HI-111 or HI-112 (<i>if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from Anthropology, Economics, Sociology, Political Science, Psychology is required</i>)</li> <li>• SP-211(<i>if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from PSYC-100 series is required</i>)</li> <li>• One English course from EN-200, EN-300, or EN-400 series</li> <li>• One science lab. course (students who take STEM variant in common core have satisfied this requirement)</li> </ul>	<p><u>16-18</u></p>
<p>****ADDITIONAL CONCENTRATION REQUIREMENTS</p> <p>HE-101 or 102 Two courses in Physical Education PE 400 and 500 series, series (Recommended : PE 540 or PE-416)</p> <p style="text-align: center;">_____ Sub Total</p>	<p>1-2</p> <p>2</p> <p>3-4</p>
<p>*****CONCENTRATION Personal Training</p> <p>PE 826 Concepts of Personal Training I (3) PE 827 Concepts of Personal Training II (3) Select from: PE 540 Introduction to Physical Fitness (1) PE 825 Introduction to Exercise Science (3)</p> <p>(*PE 416 Weight Lifting if HE101 is taken instead of HE102)</p> <p style="text-align: center;">_____ Sub Total</p>	<p>8-9</p>

**DEPARTMENT of SOCIAL SCIENCES**

**NEW CONCENTRATION in AA Degree Program LA1 -Concentration in Education**

**Rationale:** This concentration will provide a curricular structure for students who are interested in pursuing a degree in education, but who are not interested in participating in the Dual/Joint AA/BA program with Queens College. Such student groups will include those interested in the following areas: secondary education, special education, physical education, elementary education at institutions other than Queens College; in addition it will be a fall-back option for students dropped from the LE1 program due to GPA below 2.75. At present there is no clearly articulated degree program for those groups of students.

<b>ADDITIONAL MAJOR REQUIREMENTS</b>	
HE 101 or HE-102	1-2
Two courses in Phys. Ed. or Dance from PE 400 and 500 series or DAN 100 series	2
<b>Sub-total</b>	<b>3-4</b>
<b>***CONCENTRATION PROGRAM REQUIREMENTS – Liberal Arts and Sciences</b>  <b>Education</b> – To complete a concentration in Education, students must complete the major requirements below: <ul style="list-style-type: none"> <li>• Two Foreign Language courses (<i>two sequential courses are required, level and sequence to be determined by Foreign Languages &amp; Literature department placement</i>)</li> <li>• PSYC 215</li> <li>• SP-211 (<i>if already taken in common core, choose from HI 110, 111, or 112</i>)</li> <li>• One English course from EN-200, 300, or 400 series; recommended courses: EN-216, EN-224, EN 225</li> <li>• One science lab. course (STEM variant in common core satisfies this requirement): Applicable courses include BI-132, BI-171; CH-102, CH-111, CH-121; ET-842; PH-112</li> </ul>	14-18
Education Concentration EDUC 101 (4) MU 261 (3) ; remaining credits may be selected from Common Core or free electives	8-9

## 5. Changes in Degree Programs

### DEPARTMENT OF ART and DESIGN

#### Change in AAS Degree in Digital Art and Design.

**From:**

Students may choose between EN-101, English Composition I, and EN-103, Writing for the New Media. Both courses fulfill the first composition course requirement.

**To:** EN-101, English Composition I

We are requesting dropping EN 103 as a Gen Ed option in favor of requiring only EN-101.

**RATIONALE:**

At present Students may substitute EN-101 for EN-103; students can receive credit for only one of these courses. Over the past few years, casual empiricism suggests that there is no inherent advantage to a specialized English course for New Media students. They are equally if not better served by a traditional English composition course.



## 6. Pathways Update

The Committee on Curriculum informs the Academic Senate that there have been a number of developments related to the Pathways curriculum activities and some raise issues with proper observation of shared governance.

- A. There have been courses nominated by departments for the Common Core not yet approved as such by the Academic Senate (see-attached listing). The Senate may wish to consider them and act upon them.
- B. There have been a considerable number of changes in the placement of QCC courses into the Common Core as a result of a process of approval with CUNY Committees to Review Common Core Courses. See attached listing for current status of QCC courses in the new CUNY Common Core. It indicates those that have been rejected and those placed into a different category than was sent to the Academic Senate in November of 2012.
- C. There have been degree program changes which the CUNY Office of Academic Affairs has sent on to the CUNY BOT and received the approval of the BOT without having been approved by the QCC Academic Senate. This was reported to the Academic Senate in March 2013. These include the LS1 , AS Degree program in Science and Math and the AS degree program in Engineering and the AS degree program in Health Science (see March 2013 monthly report).
- D. There have been courses that were rejected and sent back by the Common Core Review Committees and revisions were made. In some few cases significant changes were made to those courses to have them approved but those changes were not submitted for vetting by the QCC Committee on Curriculum or the Academic Senate. The Committee on Curriculum is reviewing those cases to determine if there are needed changes in course descriptions or if the changes result in courses not to be given the number of college credits originally assigned or to be rejected as college courses.

*Please see appended spread sheets.*