QUEENSBOROUGH COMMUNITY COLLEGE
CITY UNIVERSITY OF NEW YORK
CURRICULUM COMMITTEE

To: Peter Bales, Academic Senate Steering Committee
From: Aránzazu Borrachero, Chairperson, Committee on Curriculum
Date: April 27, 2015

Subject: Monthly Report

The Committee on Curriculum has voted to send the following recommendations to the Academic Senate:

1. Two revised courses
2. Two revised programs

1. Revised Courses

DEPARTMENT OF SOCIAL SCIENCES

ECON101-Introduction to Macroeconomics

FROM:
ECON-101: Introduction to Macroeconomics

~~A study of factors determining national output, income, employment, and prices; the impact of government spending, taxation, and monetary policy; the banking system; economic growth; international trade.~~

TO:
ECON-101: Introduction to Macroeconomics

This course presents the fundamentals of Economics with a focus on the behavior of the aggregate economy. Major topics include national income accounting, economic growth, business cycles, unemployment, inflation, aggregate demand and supply, and macroeconomic equilibrium of income and expenditures. The course also covers fiscal and monetary policy, and issues in international trade and finance.

ECON-102: Introduction to Microeconomics

FROM:
ECON-102-Introduction to Microeconomics

~~A study of the determination of prices and the distribution of income under various market conditions; government intervention in the market; a comparison of different types of economic systems.~~

TO:
ECON-102 Introduction to Microeconomics

This course presents the fundamentals of Economics with a focus on the behaviors of consumers and producers, and government regulations that affect the dynamic interaction between buyers and sellers in an economy. Major topics include consumer choice theory, production, and profit maximization of firms operating under various market structures, such as Perfect Competition, Monopolistic Competition, Oligopoly and Monopoly. The course also covers the labor market and wage determination under varying market conditions.

Rationale: The revisions are necessary in order to provide more accurate and updated descriptions of the courses to reflect the actual content covered in the classes. The previous course descriptions were more than 20 years old and significantly dated.

2. Revised Programs

DEPARTMENT OF BUSINESS

A.A.S., Computer Information Systems (CIS)

General rationale:
The existing program offered two CIS majors (Microcomputer Applications Software, and Computer Programming). The proposed program is a single major of Computer Information Systems. Creating a single track for CIS majors enables a more extensive set of required core courses which will better prepare our students for employment and/or college transfer. The revisions to existing courses reflect changes to technology and industry directions. A new course CIS102 will replace BU502. A new course CIS 251 will replace BU 504 and BU 509. All the Computer Information Systems courses have been given a new prefix: CIS.

FROM:

Course no.	Course title	Common core category	Credits
General education core requirements			
EN-101	English Composition I	I.A	3
EN-102	English Composition II	I.A	3
MA-260 *or* MA-321 *or* MA-128	Pre-calculus & Elements of Calculus for Bus. Students Mathematics in Contemporary Society Calculus for Technical and Business Students	I.B	4
	Humanities elective	II.A-D	3
	Laboratory science	I.C	4
ECON-101 *or* ECON-102	Introduction to Macroeconomics Introduction to Microeconomics	I.D	3
	Social Sciences or History elective (HI-100 series)	IIA, B, D or E	3
		Subtotal	**22-23**
Requirements for the major			
BU-101	Principles of Accounting I	NA	4
BU-201	Business Organization and Management	NA	3
BU-203	Principles of Statistics	NA	3
BU-500	Introduction to Microcomputer Applications	NA	3
BU-509	Projects in Data Processing	NA	3
BU-520	Introduction to Computer Programming for Business	NA	3
		Subtotal	**19**
~~Track A~~	~~Computer Programming~~		
~~BU-502~~	~~COBOL Programming~~	~~NA~~	~~3~~
~~BU-504~~	~~Systems Analysis and Design with Business Applications~~	~~NA~~	~~3~~
~~BU-521~~	~~Business Programming with Objects~~	~~NA~~	~~4~~
~~BU-522~~	~~Business Programming with Visual Languages~~	~~NA~~	~~3~~
~~BU-529~~	~~Application Programming for Mobile Devices~~	~~NA~~	~~3~~
~~BU-532~~	~~Microcomputer Operating Systems and Utility Software~~	~~NA~~	~~3~~
	~~Business elective~~	~~NA~~	~~2-3~~
		~~**Subtotal**~~	~~**18-19**~~
~~Track B~~	~~Microcomputer Applications Software~~		
~~BU-508~~	~~Database Management Systems~~	~~NA~~	~~3~~

BU-530	Spreadsheet Applications	NA	3
BU-532	Microcomputer Operating Systems and Utility Software	NA	3
BU-537	Data Security for Business	NA	3
BU-534	Local Area Network Management	NA	3
BU-859	Desktop Publishing (Software)	NA	3
	Business elective	NA	3-4
		Subtotal	**18-19**
		Total credits required	**60**

TO:

Course no.	Course title	Common core category	Credits
General education core requirements			
EN-101	English Composition I	I.A	3
EN-102	English Composition II	I.A	3
MA-260 *or* MA-321 *or* MA-128*	Pre-calculus & Elements of Calculus for Bus. Students Mathematics in Contemporary Society Calculus for Technical and Business Students	I.B	3-4
	Humanities elective	II.A-D	3
	Laboratory science	I.C	4
ECON-101 *or* ECON-102	Introduction to Macroeconomics Introduction to Microeconomics	I.D	3
	Social Sciences or History elective (HI-100 series)	II A, B, D or E	3
		Subtotal	**22-23**
Requirements for the major			
BU-101	Principles of Accounting I		4
BU-201	Business Organization and Management		3
BU-203	Principles of Statistics		3
CIS-101	Introduction to Microcomputer Applications		3
CIS-102	Computer Programming Fundamentals for Business		3
CIS-152	Computer Programming for Business I		3
CIS-153	Microcomputer Operating Systems & Utility Software		3
CIS-201	Local Area Network Management		3
CIS-208	Database Management Systems		3
CIS-251	Analysis and Design of Systems Projects		3
		Subtotal	**31**
Electives (Select 6 to 8 Credits)			
CIS-202	Computer Programming for Business II		3
CIS-203	Object Oriented Programming for Business		3
CIS-204	Web Design		3
CIS-205	Introduction to Information Systems Management		3
CIS-206	Spreadsheet Business Applications		3
CIS-252	Application Development for Mobile Devices		3
CIS-254	Data Security for Business		3
	Free Elective		0-1
		Subtotal	**6-7**
		Total credits required	**60**

* Students intending to transfer to complete a Bachelor's degree should consult with advisor to take either MA-260 or MA-128

Revised Courses:

1. ~~BU 520~~ ~~Introduction to~~ Computer ~~Programming for Business~~

From:

~~BU 520~~ ~~Introduction to~~ Computer ~~Programming for Business~~
2 class hours 2 laboratory hours 3 credits

Introduction to algorithm development and computer programming for business applications in higher-level languages. Problem-solving and hierarchy chart development; flowcharting and pseudocode fundamentals. Input and output statements, conditional and unconditional control statements, the case structure, looping statements, string and numeric functions, arrays, sequential files.

To:

CIS 152 Computer <u>Programming for Business I</u>
2 class hours, 2 laboratory hours, 3 credits
<u>Prerequisite: CIS 102</u>

Introduction to algorithm development and computer programming for business applications in higher-level languages. Problem-solving and hierarchy chart development; flowcharting and pseudocode fundamentals. Input and output statements, conditional and unconditional control statements, the case structure, looping statements, string and numeric functions, arrays, sequential files.

Rationale: The programming classes BU520 (CIS 152) and BU521 (CIS 203) are sequence classes so the course title and number has been modified to represent that the BU521 (CIS 203) course material is at a more advanced level than the BU520 (CIS 152) course material. It is intentional that the course be taught using a "higher-level" programming language, which is commonly used in today's software development environments.

2. ~~BU 521~~ ~~Business Programming with Objects~~

From:

~~BU 521~~ ~~Business Programming with Objects~~
2 class hours 4 laboratory hours ~~4~~ credits
Prerequisite: ~~BU 520~~

This course provides an introduction to object-oriented programming methods using the ~~C++~~ programming language. The object approach supports the development of independent and reusable software components for building complex applications. Using these techniques results in shorter development time, more robust applications, and greater programmer productivity.

To:

CIS 203 <u>Object Oriented Programming for Business</u>
2 class hours 3 laboratory hours <u>3</u> credits
Prerequisite: <u>CIS-152 and MA-010 or satisfactory score on the Mathematics Placement Test</u>

This course provides an introduction to object-oriented programming methods using the <u>Object Oriented</u> programming language. The object approach supports the development of independent and reusable software components for building complex applications. Using these techniques results in shorter development time, more robust applications, and greater programmer productivity.

Rationale: The programming classes BU520 (CIS 152) and BU521 (CIS 203) are sequence classes so the course title and number has been modified to represent that the BU521 (CIS 203) course material is at a more advanced level than the BU520 (CIS 152) course material. It is intentional that the course be

taught using a "higher-level" programming language, which is commonly used in today's software development environments. The change in credits brings the course into line with other major courses.

3. ~~BU-524 Web Page: Design and Applications~~

From:
~~BU-524 Web Page: Design and Applications~~
2 class hours 2 laboratory hours 3 credits
Offered as needed
Prerequisite: ~~BU-532~~

This course introduces Web Page Design principles and concepts, provides hands on experience utilizing Web page authoring software, employs Scripting Programming Languages for data manipulation, and prepares students for developing business applications deployed on the World Wide Web (WWW).

To:

CIS 204 Web Design
2 class hours 2 laboratory hours 3 credits
Offered as needed
Prerequisite: CIS-153 and MA-010 or satisfactory score on the Mathematics Placement Test

This course introduces Web Page Design principles and concepts, provides hands on experience utilizing Web page authoring software, employs Scripting Programming Languages for data manipulation, and prepares students for developing business applications deployed on the World Wide Web (WWW).

Rationale: The course title has been changed to reflect the fact that the course is not restricted to Web Page design.

4. ~~BU-512~~ Introduction ~~to Information~~

From:
~~BU-512~~ Introduction ~~to Information Systems and Technologies~~
2 class hours 2 laboratory hours 3 credits

Introduction to how today's businesses use ever-changing technology to operate, compete, and do business. Students will learn the differences between the major types of hardware, software, and network solutions that meet business needs. Students will learn why familiarity with today's information systems has become indispensable for tomorrow's business leaders due to the rapid developments in Information technology (IT).

To:

CIS 205 Introduction to Information Systems Management
2 class hours 2 laboratory hours 3 credits
Prerequisite: For CIS majors only: CIS 101 and MA-010 or satisfactory score on the Mathematics Placement Test

 Introduction to how today's businesses use ever-changing technology to operate, compete, and do business. Students will learn the differences between the major types of hardware, software, and network solutions that meet business needs. Students will learn why familiarity with today's information systems has become indispensable for tomorrow's business leaders due to the rapid developments in Information technology (IT).

Rationale: The course title has been changed to reflect the systems focus of the course, and the prerequisite for CIS majors has been added to ensure students have the fundamental understanding of desktop applications.

5. BU-530 Spreadsheet Applications

From:
BU-530 Spreadsheet Applications
2 class hours 3 laboratory hours 3 credits
Prerequisite: BU-500

~~Spreadsheet design; types of keyboard entries permitted and graphs; use of built-in statistical and financial functions; absolute references and named ranges; database functions and commands for sorting and querying; spreadsheet consolidation and combination; templates; macros. Advanced statistical, financial, and database functions. Use of data tables, logical functions and formulas; lookup tables; advanced graphing techniques, programming macros.~~

To:
CIS 206 Spreadsheet Business Applications
2 class hours 3 laboratory hours 3 credits
Prerequisite: CIS 101 and MA-010 or satisfactory score on the Mathematics Placement Test

Students will apply spreadsheet concepts to real-world business situations and strengthen their ability to analyze business problems, examine alternative solutions, and implement solutions using software. Topics include spreadsheet design, efficient/effective data handling, computational analysis, decision support, graphs, templates and macros, advanced statistical, financial, and database functions, use of data tables, logical functions and formulas and lookup tables.

Rationale: While the course content remains the same, we have shifted the focus of the material from "skills and techniques" to real-world business problem solving. This change will allow us to better prepare our students for the expectations of the business community. Redundant and ancillary topics were also removed from the description. The course prefix and number have been changed to reflect the course's position in the curriculum. The course title has been changed to reflect the new focus on business problem solving.

New courses

1. **CIS-102: Programming Fundamentals for Business**
Prerequisites: None
Hours and credits: 2 class hours, 2 laboratory hours – 3 credits

Course description: Introduction to algorithmic thinking, problem solving and computer fundamental programming for business applications. Use of hierarchy chart development, flowcharting, pseudo-code and computer language statements for program development. "Python" will be utilized for hands-on experience in developing, writing, running and debugging computer code.

Rationale: This course will be offered every semester (Fall and Spring). As computer technology changes rapidly the need of curricula updates become urgent. This course is a response to such a need and a necessity to align the CIS curriculum with those in CUNY and elsewhere. The projected enrollment is from 40 to 50 students per semester.

2. **CIS-251**: **Analysis and Design of Systems Projects**
Prerequisites: CIS-208 and CIS-152 and MA-010 or satisfactory score on the Mathematics Placement Test
Hours and credits: 2 class hours, 2 laboratory hours – 3 credits

Course description: Students use all previously learned data processing concepts and techniques in this laboratory course to design and implement a complete data processing application package for common business needs, such as payroll, inventory management, accounts receivable files, and

management information systems. Development of the application will be accomplished concurrently with the study of the phases of Systems Analysis and Design.

Rationale: This course will be offered every semester (Fall and Spring). While student will have learned the technical skills to develop systems solutions to focused business problems as a prerequisite, this course applies those capabilities in an actual project development environment. The environments include defining client requirements, documenting same, producing prototypes, and the actual systems solution.

Summary of Prerequisites and Co-Requisites based on new numbering system

1. CIS Required Courses

New Course Number	Prerequisite(s)
CIS 101	
CIS 102	
CIS 152	CIS 102
CIS 153	CIS 101
CIS 201	CIS 153
CIS 208	CIS 101
CIS 251	CIS 208 and CIS 152

2. CIS Elective Courses

New Course Number	Prerequisite(s): MA-010 or satisfactory score on the Mathematics Placement AND
CIS 202	CIS 152
CIS 203	CIS 152
CIS 204	CIS 153
CIS 205	CIS 101*
CIS 206	CIS 101
CIS 252	CIS 202 or CIS 203
CIS 254	CIS 201

* Prerequisite applies only to CIS students

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QCC/John Jay – Dual/Joint Degree Program A.S. in Accounting for Forensic Accounting (QCC) Leading to the B.S. in Economics: Forensic Financial Analysis (John Jay College of Criminal Justice)

General rationale: Several course changes are proposed in order to conform with the course changes that have already been instituted by John Jay College. The new degree program at John Jay College was approved by the UCASC in the Spring of 2014 and will be launched in the Fall of 2015.
The name of the degree program at John Jay changes from "B.S. in Economics" to "B.S. in Fraud Examination and Financial Forensics".

Requirements for the Major:
The addition of BU-104, Intermediate Accounting I and the requirement of BU-111, Computer Applications in Accounting, are needed to align with required courses in the major at John Jay. (John Jay College added three new courses in accounting to the curriculum.)

CIS-101, Introduction to Microcomputer Applications has been added to the requirements for the major because it is a prerequisite for BU-111, Computer Applications in Accounting.

General Education Core Requirements:
The recommendations of SP-211, Speech Communication, in category IIB, PHIL-130, Ethics: Theories of the Good Life, in category IID and SOCY-101, Sociology, in the Flexible II category will now align with requirements for the major at John Jay.

MA 128, Calculus for Technical and Business Students, and MA-260, Pre-Calculus and Elements of Calculus for Business, are added. MA-128 and 260 were included in the original Articulation but were not included when the program was reconfigured for pathways.

From:
A.S., Accounting for Forensic Accounting, Dual/Joint Degree Program, QCC/John Jay
[leading to the B.S. in Economics: Forensic Financial Analysis]
General Education Core Requirements Credits
IA, EN-101 English Composition I ……………………………………………………………3
IA, EN-102 English Composition II……………………………………………………………3
IB, MA-440 Pre-Calculus Mathematics………………………………………………..……4
IC, Life & Physical Sciences (STEM) Laboratory Science……………………………….…4
IIA, World Cultures & Global Issues……………………………………………………….…3
IIB, U.S. Experience in Its Diversity ..Recommended: [PLSC-101]………………………3
IIC, Creative Expression…………………………………………………………...…………3
IID, Individual & Society.. Recommended: [CRIM-102]……………………….…….…….3
IIE, Scientific World………………………………………………………………….………3
Flexible II: A, B, C, D or E…………………………………………………………………….3
                                                            Subtotal ...32
Requirements for the Major
BU-101 Principles of Accounting I ………………………………………………………….4
BU-102 Principles of Accounting II ………………………………………………………….4
BU-103 Intermediate Accounting I ……………………………………………………….…4
~~CRIM-101 Introduction to the American Criminal Justice System………………………….3~~
~~BU-108 Income Taxation or BU-111 Computer Applications in Accounting…………………….3~~
BU-203 Principles of Statistics……………………………………………………………….3
ECON-101 or ECON-102 Introduction to Macroeconomics/Microeconomics………………..3
~~SP-211 Speech Communication………………………………………………………………3~~
                                                            Subtotal……..27
Free electives ………………………………………………………………………..……1
                                                            Total…………60

To:
A.S., Accounting for Forensic Accounting, Dual/Joint Degree Program, QCC/John Jay
Leading to the B.S. in Fraud Examination and Financial Forensics at John Jay College
** of Criminal Justice**

General Education Core Requirements Credits
IA, EN-101 English Composition I ……………………………………………………………3
IA, EN-102 English Composition II……………………………………………………………3
IB, MA 128 Calculus for Technical and Business Students *or*
MA-260 Pre-Calculus and Elements of Calculus for Business *or*
MA-440 Pre-Calculus Mathematics………………………………………………..4
IC, Life & Physical Sciences (STEM) Laboratory Science………………………………….4
IIA, World Cultures & Global Issues……………………………………………………….…3
IIB, U.S. Experience in Its Diversity ..Recommended: SP-211………………………………3

IIC, Creative Expression…………………………………………………………….....….3
IID, Individual & Society.. <u>Recommended: PHIL-130</u>……………………………………....3
IIE, Scientific World……………………………………………………………………….3
Flexible II: A, B, C, D or E……<u>Recommended: SOCY-101</u>…………………………………….3

<div align="right">Subtotal............32</div>

Requirements for the Major
BU-101 Principles of Accounting I………………………………………………………4
BU-102 Principles of Accounting II………………………………………………………4
BU-103 Intermediate Accounting I………………………………………………………4
<u>BU-104 Intermediate Accounting II</u>………………………………………………………3
<u>BU-111 Computer Applications in Accounting</u>…………………………………………...3
BU-203 Principals of Statistics……………………………………………………….....3
ECON-101 or ECON-102…Introduction to Macroeconomics/Microeconomics…………….3
<u>CIS-101 Introduction to Microcomputer Applications</u>………………………………………3

<div align="right">Subtotal …………27</div>

Free electives………………………………………………………………………… …....1

<div align="right">**Total ……..…..60**</div>

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Amendment to March report:
The following course, included in the revisions of the Dance Concentration presented in the March report of the Curriculum Committee, contained an error in the number of credits and hours listed. The following is the corrected version:

Theory and Practice of Modern Dance

From:
DAN 251 ~~Theory and Practice of Modern Dance~~
Hours and Credits: 1 class hour, 2 studio hours, 2 credits
Pre-requisite: ~~DAN 250~~ or permission of the ~~department~~

Description: A survey of modern dance through an understanding of movement techniques, elements of space, rhythm, and dynamics; compositional and design forms; and historical contributions. Teaching techniques with an analysis of accompaniment.

To:
DAN 251 <u>Choreography I</u>
Hours and Credits: 1 class hour, 2 studio hours, 2 credits
Pre-requisite: <u>DAN 249 or</u> permission of the <u>instructor</u>

Description: <u>In Choreography I students will explore the process of creating dance based on the elements of dance - time, space and energy/movement quality. Improvisation will be used as a method of creating movement material. Choreographic devices and compositional structures will be explored. Students will be encouraged to develop their own creative voices, and to critically evaluate their own and their classmates' works.</u>