BROOKLYN COLLEGE

OF

THE CITY UNIVERSITY OF NEW YORK

FACULTY COUNCIL

Meeting of May 6, 2014

The Committee on Undergraduate Curriculum and Degree Requirements herewith submits its recommendations in Curriculum Document 370.

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Respectfully submitted,

William Hampton-Sosa (Finance and Business Management) Robert Shapiro (Judaic Studies) Aaron Tenenbaum (Computer & Information Science, Chair) Philip Thibodeau (Classics) Michael Weinstein (Finance and Business Management)

Members of Faculty Council with any questions are urged to contact Aaron Tenenbaum at tbaum@sci.brooklyn.cuny.edu or (718) 951-5657 prior to the meeting.

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SECTION A-III: CHANGES IN DEGREE PROGRAMS Department of Art

B.A degree program in art

SED program code 02015

The Art major is writing intensive.

Department requirements (41 - 42 credits)

Art 1050 or Core Studies 2.1 or Core Curriculum 1120 or Art 1010.

Art 2210, 2211, and 3066.

Six additional credits in art history courses.

Twenty-four additional credits in studio art courses chosen from at least four of the following subject areas:

- a) Drawing
- b) Painting
- c) Sculpture
- d) Printmaking
- e) Photography
- f) Digital art

Special topics and honors courses in the above subject areas can count toward the fulfillment of the subject-area requirements with permission of the instructor and the chairperson.

Concentration for majors in digital art (15 credits)

15 credits in digital art chosen from the courses below:

ARTD 2811, ARTD 2812, ARTD 2820, ARTD 2821, ARTD 3812, ARTD 2723.

Special topics and honors courses in digital art can count toward the fulfillment of the subject-area requirements with permission of the instructor and the chairperson.

The concentration credits count towards the studio art course distribution requirement.

Rationale: The department approved the addition of a concentration in digital art. The concentration courses would be within the preexisting course requirements for the BA or BFA in Art. We are requesting to add this concentration because we feel the listing of the concentration on student transcripts will help gain them career opportunities upon graduation. We also seek to add this concentration because we have many students

who already fulfill these course requirements and we feel it will help build a sense of identity amongst the students. This supports the college mission of stimulating creative achievement and intellectual growth.

The addition of the concentration also allows us to identify the core curriculum of digital arts. Future expansion of course offerings can then be considered as more advanced courses are added.

Assessment of the new concentration will take place along with the courses that comprise its requirement structure (i.e. will take place under the assessment schedule for the BA in Art). These goals for the BA include exposure to technical skills required for working in particular mediums (drawing, painting, sculpture, printmaking, photography, computer imaging, and video). In addition, we will track internship and job placement based on the new addition of this concentration, adding upper level classes as needed to further positive career outcomes.

Date of departmental approval: April 1, 2014.

Effective Date: Spring 2015.

SECTION A-III CHANGES IN DEGREE PROGRAMS Department of Computer and Information Science

B.S. in computer science

HEGIS code 0701; SED program code 01991

Department requirements (54-57 credits)

A student excused, without credit, from a course may not take the course for credit later, except with permission of the chairperson.

The department chair, with the approval of the chair of the department's undergraduate curriculum committee, may allow substitutions for one or more of these requirements consistent with the educational goals of the program.

Computer and Information Science 1110 or 1180.

All of the following: Computer and Information Science 2210, 3110, 3120, 3140, 3130, 3320, 3150, 3305 or 3310, 3220 or 3230; 4900 or 5001.

Students who have enrolled in Computer and Information Science 27 before Spring 2008 may substitute completion of that course for Computer and Information Science 3310. Students who enrolled in Computer and Information Science 1341 before Spring 2008, but who did not complete Computer and Information Science 3305, must complete Computer and Information Science 3305 or 3310 to meet the requirements of the program.

Computer and Information Science 2820W or Philosophy 3318W.

Two additional courses in Computer and Information Science chosen from courses numbered between 3000 and 4899.

Mathematics 1201 and 1206, or 3.20 and 4.20 and 1211.

Mathematics 2501 or 3501.

Transfer students who receive credit for Mathematics 3.20 and 4.20 are required to take Mathematics 1211 and either 2501 or 3501 to satisfy the mathematics requirement for the B.S. degree in Computer Science.

Additional requirements for a B.S. degree

Candidates for a B.S. degree with a major in computer science (including computational mathematics and multimedia computing) must complete at least 60 credits in science and mathematics; 24 of these 60 credits must be completed in advanced courses numbered 2000 and above in the Department of Computer and Information Science.

For the B.S. degree in computational mathematics, these 24 credits must be in the Department of Computer and Information Science and/or the Department of Mathematics. These 24 credits must be completed at Brooklyn College with a grade of C or higher in each course. Specific course requirements for B.S. degrees in the department are described above.

The following courses may be applied toward the 60 credits in science and mathematics:

- A) All courses in the departments of biology, chemistry, computer and information science, earth and environmental sciences, mathematics, physics, and psychology.
- B) Courses marked with a number sign (#) in the Department of Health and Nutrition Sciences.
- C) Anthropology and Archaeology 2200, 3199, 3230, 3240, 3250, 3260, 3265, 3266, 3425, 3440, 3470 and 4665.

Core Studies 5, 5.1, 5.2, 7.1, 7.2, 8.1 and 8.2.

Core Curriculum 1300 through 1399.

Math 1311, Biology 1010, Chemistry 1007, Physics 1331, Earth and Environmental Sciences 1010.

Core Curriculum 3301 through 3399.

Economics 3400, 3410, 4410, 4422.

Philosophy 3203, 3204, 3231, 3232, 3422, 3423, 3601, 3605, and 3610.

Kinesiology 3023, 3271, 3275, 3281, 3285, 4229, 4251.

Sociology 2701.

Rationale: This will allow students to meet the requirements of a computer hardware course with either 3305 or 3310. This will not affect students who begin their program at Brooklyn (as CISC 3305 is no longer being offered); however, a substantial number of students are receiving transfer credit for 3305. At this time, the only way those students may satisfy the degree requirement is to submit individual petitions to Course and Standards to substitute 3305 for 3310. It would be preferable to automate current practice.

The text being removed dealt with the issue of 3305 and 3310 during the transition between the two courses. The addition of 3305 as an alternative for all students removes the need for this text.

Date of departmental approval: May 6, 2014.

SECTION A-III: CHANGES IN DEGREE PROGRAMS Department of Finance and Business Management

B.S. degree program in Business, Management, and Finance

HEGIS Code 0506, SED Program Code 85067

Admission to Program

In order to declare a major in this program, a student must have completed at least 32 credits at Brooklyn College with a grade point average of 2.20 or better. Students who enter Brooklyn College after earning at least 28 credits elsewhere, may declare a major in this program after earning at least 15 credits at Brooklyn College with a grade point average of 2.20 or better.

Department Requirements (48 – 53 credits)

Majors must complete the following course requirements:

Business Core

All of the following: Economics 2100 or Business 2100; Economics 2200 or Business 2200; Economics 3410 or Business 3410 or Mathematics 1201; Business 3400 or Economics 3400 or Mathematics 2501 or Mathematics 3501 or Psychology 3400; Business 3430 or CIS 2531; Business 3200; Business 3100; Business 3310; Accounting 2001; Accounting 3201; Philosophy 3314; Computer & Information Science 1050 or Computer & Information Science 1110.

Business Electives

Three additional electives in business not used to satisfy the Business Core or Capstone Seminar requirement.

To satisfy this requirement, students may take:

- (a) any two three courses with a business prefix, or
- (b) one or two courses with a different prefix if crosslisted with a business course (for example, Computer and Information Science 1590 which is crosslisted with Business 3420), or
- (c) The following courses may also be used to satisfy the business electives requirement:

Accounting 3001, 3041, 3051, 3101, 4201, Computer & Information Science 3820, Economics 3202, 3342, 3352, 3362, Mathematics 2601, Psychology 3171.

Capstone Seminar

One of the following seminars: Business 4000W, or Business 4100W, or Business 4101W, or Business 4200W, or Business 4202W or Computer & Information Science 1580W, or Business 4300W

Writing-Intensive Requirement: Students are required to take at least one writing-intensive course (W course).

Residence Requirement: At least 21 credits of the above courses, including the required capstone seminar course, must be completed at Brooklyn College.

Index Requirement: Attainment of an overall grade point average of 2.00 in all courses taken to satisfy department requirements. This does not mean that a student must earn a grade of C or better in every single course; it is the overall GPA in the major that matters.

Rationale: When the BMF requirements were changed, removing BUSN 3240 as part of the Business Core and increasing the Business Electives from two to three (CD 364—October 8, 2013), we inadvertently forgot to change the word 'two' to 'three.'

Date of department approval: September 10, 2013.

Effective date of the change: Fall 2014.

Minor in Chinese Translation

Department Requirements (15 credits)

CHIN 2030W Advanced Language Skills 2 CHIN 3260 Literary Translation. CHIN 3240 Translation for the Professions

Two other Chinese courses numbered above 2021.

All the courses used to meet these degree requirements must be completed with a grade of C or higher.

Rationale: Upon consideration, the department decided that offering a new minor focused on translations studies will both strengthen the department's curriculum and meet student needs. Translation classes have become key classes in developing our curriculum and will help students access the job market with a solid professional training that is becoming increasingly crucial in the global economy and that is not actually covered by any CUNY School.

Date of departmental approval: November 12, 2013.

Minor in French Translation

Department Requirements (15 credits)

FREN 2030W Advanced Language Skills II FREN 3260 Literary Translation FREN 3290 Translation Practicum FREN 3240 Translation for the Professions

One other French course numbered above 2021.

All the courses used to meet these degree requirements must be completed with a grade of C or higher.

Rationale: Upon consideration, the department decided that offering a new minor focused on translations studies will both strengthen the department's curriculum and meet student needs. Translation classes have become key classes in developing our curriculum and will help students access the job market with a solid professional training that is becoming increasingly crucial in the global economy and that is not actually covered by any CUNY School.

Date of departmental approval: November 12, 2013.

Minor in Italian Translation

Department Requirements (15 credits)

ITAL 2030W Advanced Languages Skills II

ITAL 3260 Literary Translation

ITAL 3290 Translation Practicum

ITAL 3240 Translation for the Professions

One other Italian course numbered above 2021.

All the courses used to meet these degree requirements must be completed with a grade of C or higher.

Rationale: Upon consideration, the department decided that offering a new minor focused on translations studies will both strengthen the department's curriculum and meet student needs. Translation classes have become key classes in developing our curriculum and will help students access the job market with a solid professional training that is becoming increasingly crucial in the global economy and that is not actually covered by any CUNY School.

Date of departmental approval: November 12, 2013.

Minor in Russian Translation

Department Requirements (15 credits)

RUSS 2030W Advanced Language Skills II RUSS 3260 Literary Translation RUSS 3290 Translation Practicum RUSS 3240 Translation for the Professions

One other Russian course numbered above 2021.

All the courses used to meet these degree requirements must be completed with a grade of C or higher.

Rationale: Upon consideration, the department decided that offering a new minor focused on translations studies will both strengthen the department's curriculum and meet student needs. Translation classes have become key classes in developing our curriculum and will help students access the job market with a solid professional training that is becoming increasingly crucial in the global economy and that is not actually covered by any CUNY School.

Date of departmental approval: November 12, 2013.

Minor in Spanish Translation

Department Requirements (15 credits)

SPAN 2030W Advanced Language Skills II SPAN 3260 Literary Translation SPAN 3290 Translation Practicum SPAN 3240 Translation for the Professions

One other Spanish course numbered above 2021.

All the courses used to meet these degree requirements must be completed with a grade of C or higher.

Rationale: Upon consideration, the department decided that offering a new minor focused on translations studies will both strengthen the department's curriculum and meet student needs. Translation classes have become key classes in developing our curriculum and will help students access the job market with a solid professional training that is becoming increasingly crucial in the global economy and that is not actually covered by any CUNY School.

Date of departmental approval: November 12, 2013.

SECTION A-IV: NEW COURSES Department of Computer and Information Science

CISC 2590 Foundations of Business Analytics

3 hours; 3 credits

Introduction to business analytics; kinds of analytics: descriptive/prescriptive/predictive; data mining and big data; data visualization; dashboards for organizational performance management; data warehouses and data marts; text and web mining; business issues in analytics. Cases, articles, projects and hands-on analytics software use. This course is the same as Business 3421.

Prerequisite: Business 3400, Economics 3400, Mathematics 1501, Psychology 3400, or an equivalent statistics course with a grade of C or better; and Computer and Information Science 1050 or proficiency with spreadsheets.

Contact hours; 3

Frequency of Offering: Once a year

Clearances: Finance and Business Management, Mathematics.

Projected enrollment: 30 – 35 students

Department goals addressed by the course: This course meets the following departmental goals:

- 1. Students will develop knowledge and understanding in information systems and in computing applications to business management.
- 2. Students will develop competency in analytical thinking and problem solving skills.
- 3. Students will develop competency in the oral and written presentation of research findings and will learn the importance and usefulness of analytics in the analysis of data and decision making.

Method of Evaluation:

Attendance and Course Participation	10%
Case Studies/Assignments	40%
Group Project	50%

Idea Appeal and Relevance
Problem Formulation and Questions
Appropriateness of Methods and Findings ` 10%
Write-up
Presentation
5%
10%
15%
15%

Date of departmental approval: May 6, 2014.

SECTION A-IV: NEW COURSES Core Curriculum Scientific Inquiry

Sponsoring department: Physics

CORC 3320 Space-Time, Gravity, and the Quantum: The Role of Einstein in the Birth of Modern Physics

3 hours; 3 credits

A biographical treatment of the life of Albert Einstein, with emphasis on the scientific breakthoughs and struggles which formed his major contributions to modern science. His interactions with the other giants of 20th century physics, both personal and intellectual. The evolution of his political and social views, and how they paralleled that of his scientific thinking. The impact of his image as the leading iconic symbol of 20th century science.

Contact hours; 3

Frequency of offering: every semester.

Projected enrollment: 30-40 students per semester

Clearances: None

Rationale: This course fits into the Exploring Science rubric of the Upper Tier Core. It examines the scientific contributions and cultural impact of the world's best known scientist, as a way of examining the scientific, intellectual, and cultural upheavals that ushered in the early decades of the Twentieth Century.

The course analyzes, primarily in nonmathematical terms, Einstein's three revolutionary 1905 papers, which have been compared in importance to Newton's 1667 discovery of the laws of motion. His breakthroughs in relativity, quantum physics, and atomic theory will be discussed in terms of their impact on science. The course will also treat his general theory of relativity and its revolutionary implications for our understanding of gravity. At the same time, the course will deal with bibliographical studies of his philosophical and political positions, as well as the evolution of his public image.

While the course takes advantage of his recently released personal papers by Hebrew University, it also draws on a large variety of older scientific papers on Einstein's work, and from his own writings in which he attempted to explain his theories to the public. His relationships with other giants of science in the 1920's and 30's, for example with Max Planck, Marie Curie, Niels Bohr, and Werner Heisenberg, will be explored. His connection with Zionism and with Chaim Weizmann, his correspondence with Sigmund Freud, his letter to FDR foreseeing the possibility of an atomic bomb, and his evolving perspectives on politics, philosophy and religion, will be seen as forming a unique lens

through which the major scientific, cultural, and political changes of the first half of the Twentieth Century can be viewed.

Core curriculum goals addressed by the course:

- 1. To develop the ability to think critically and creatively, to reason logically, to reason quantitatively, and to express their thoughts orally and in writing with clarity and precision. (1)
- 2. To acquire the tools required to understand and respect the natural universe. (5)
- 3. To understand the arts, histories and cultures of the past as a foundation for those of the present. (3)
- 4. To understand the development and workings of modern societies in an interdependent world. (4)
- 5. To understand what knowledge is and how it is acquired by the use of differing methods in different disciplines (6)

Method of Evaluation

- Two lecture exams (40%)
- Final Exam (30%)
- Class participation and homework assignments (15%)
- Paper (15%)

Exams will be evaluated with the following criteria in mind:

- Correct understanding of major concepts discussed in class.
- Correct understanding of the significance of major experimental discoveries discussed in class

Class participation will be evaluated with the following criteria in mind:

- Thoughtful consideration of assigned online readings articulated in comments
- Careful consideration of the ideas of fellow students and professor

The research paper will be evaluated with the following criteria in mind:

- Clear thesis statement that states a compelling argument
- Thesis and other ideas supported by precise evidence
- Logical organization of text to support thesis
- Accurate grammar, clear writing style, correct spelling

Date of departmental approval: October 16, 2012.

Date of core curriculum committee approval: April 8, 2014.

SECTION A-IV: NEW COURSES Department of Finance and Business Management

BUSN 3421 Foundations of Business Analytics

3 hours: 3 credits

Introduction to business analytics; kinds of analytics: descriptive/prescriptive/predictive; data mining and big data; data visualization; dashboards for organizational performance management; data warehouses and data marts; text and web mining; business issues in analytics. Cases, articles, projects and hands-on analytics software use. This course is the same as Computer and Information Science 2590.

Prerequisite: Business 3400, Economics 3400, Mathematics 1501, Psychology 3400, or an equivalent statistics course with a grade of C or better; and Computer and Information Science 1050 or proficiency with spreadsheets.

Contact hours; 3

Frequency of Offering: Once a year

Clearances: Computer and Information Science, Mathematics.

Projected enrollment: 30 – 35 students

Department goals addressed by the course: This course meets the following goals of our business programs:

- 1. Students will develop knowledge and understanding of advanced data analysis using real-world business and administrative data. This will increase the value of the business degrees offered by the School of Business.
- 2. Students will develop competency in analytical thinking and problem solving skills.
- 3. Students will develop competency in the oral and written presentation of research findings and will learn the importance and usefulness of business analytics in the analysis of data and decision making.

Method of Evaluation:

Attendance and Course Participation	10%	
Case Studies/Assignments	40%	
Group Project	50%	
- Idea Appeal and Relevance		5%
 Problem Formulation and Questions 		5%
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10% - Appropriateness of Methods and Findings - Write-up 15% - Presentation 15%

Date of departmental approval: April 1, 2014.

Effective date: Fall 2015.

SECTION A-IV: NEW COURSES Department of Judaic Studies

JUST 3038 Messianic Ideas and Movements in Jewish History

3 hours; 3 credits

Major Jewish messianic trends and movements emerging from Bible up until present. Miracle worker? apocalyptic warrior? Revealer of secrets? or savvy politician? Explore the colorful careers of numerous messianic figures and pretenders, such as Jesus, Shabbtai Zevi, Ramhal and the Lubavitcher rebbe; intellectual and historical roots of these movements, ranging from mystical yearnings to Christian and Muslim influences; its popularization among various contemporary hasidic and political groups.

Contact hours; 3

Frequency of offering: once every four semesters

Projected enrollment: 25 students

Clearances: None

Rationale: While the department offers surveys in every major era of Jewish history (i.e. Ancient, Medieval, Early Modern, and Modern) and key geographic regions for the Jews (for ex. the Mediterranean, Eastern Europe and Italy), almost none of our courses focus on the devolvement of a major phenomenon over the entire course of Jewish history and in a wide variety of areas. In doing so, this course will allow students to evaluate which ideas and aspects of messianism are germane to Judaism and which are the result of 'external' political, historical and other influences. It will also introduce students to the complexities and richness of studying a minority culture which has developed in a broad array of contexts over the course of two millennium.

Departmental Goals Addressed by Course: Students will gain

- A chronological and geographic awareness of the wide range of contexts in which Jewish culture developed.
- Ability to compare and evaluate the importance of chronological, geographical and political differences.
- A comprehensive survey of a central religious and political phenomenon that occurs-in different guises- throughout Jewish history
- Critical skills necessary for assessing a range of primary texts relating to the Jews and Judaism (for ex. rabbinic, archival, mystical, philosophical, etc.)
- An introduction to a number of historiographical and methodological approaches to major Jewish trends and texts.

Method of Evaluation: Class will be divided between lecture and discussions. Students are expected to participate actively in class discussions based on the reading assignments they have done *prior* to class. Based on the readings, students are

expected to come to class with prepared comments and questions and on occasion deliver an oral presentation- on a topic chosen in advance with the instructor- related to the topic discussed in class that day. Students' learning will be evaluated through 3 short papers, 3 oral presentations, a midterm and final examination. Consistent attendance and participation is required.

Grades will be composed as follows:

Class Participation and Oral Presentations: 25%

o Response Papers: 15%

Midterm: 30%Final Exam: 30%

Date of departmental approval: March 25, 2014.

SECTION A-V: CHANGES IN EXISTING COURSES

Department of History Change in prerequisite

FROM:

HIST 4190 Conservation and Preservation of Library and Archival Materials

A basic overview of the preservation of documents, books, photographs, and other paper-based materials, as well as digital collections. Through a hands-on experience in the college's book and paper conservation laboratory, students will learn to analyze the condition of paper artifacts, investigate varied treatments and re-housing options, apply different conservation methods and techniques, and understand the critical role of conservation and preservation in libraries and archives. Does not count towards the History major or the History minor

Prerequisite: History 4100, with permission of instructor. Open only to declared minors in Archival Studies and Community Documentation.

TO:

HIST 4190 Conservation and Preservation of Library and Archival Materials. A basic overview of the preservation of documents, books, photographs, and other paper-based materials, as well as digital collections. Through a hands-on experience in the college's book and paper conservation laboratory, students will learn to analyze the condition of paper artifacts, investigate varied treatments and re-housing options, apply different conservation methods and techniques, and understand the critical role of conservation and preservation in libraries and archives. Does not count towards the History major or the History minor

Rationale:

- Currently a student can take 4190 only if they have successfully completed History 4100 (Introduction to Archival Management), a required course in the Archival Studies and Community Documentation minor.
- History 4190 can stand on its own. Students do not need to take History 4100 to understand what is taught is History 4190.
- We have found that since History 4190 was first offered, students in many disciplines have expressed interest in taking History 4190 including those majoring in Art, Education, and Physics.
- After careful consideration, we would like to remove all prerequisites from History 4190.

Date of departmental approval: April 1, 2014.

Effective date: Fall 2015.

SECTION A-V: CHANGES IN EXISTING COURSES

Program in Urban Sustainability

Changes in number and description

FROM:

URBS *1001 Introduction to Urban Sustainability

2 hours lecture, 2 hours lab, 3 credits

Lectures and discussions of selected topics concerning the natural environment. Introduction to scientific and policy tools used to evaluate environmental and natural resource use. Case studies addressing global, transnational, regional, and local environmental issues.

TO:

SUST *1001 Introduction to Urban Sustainability

2 hours lecture, 2 hours lab, 3 credits

Introduction to urban sustainability; ecological, economic and social analyses of the human-nature interface in urban environments; problem-based and place-based approaches; data analysis, communication, group projects and interdisciplinary skills; site visits.

Rationale: With the establishment of the Urban Sustainability Program, courses crosslisted in ECON, EESC and SOCY will be replaced by courses listed with a SUST prefix. The proposed Bulletin language for SUST 1001 has been approved for the the crosslisted courses EESC 1500, ECON 2251 and SOCY 2202. This language is replacing the URBS 1001 Bulletin language, which was based on the Bulletin entry in the Environmental Studies Program (ENST 1001).

Date of Departmental Approval: March 11, 2014.

APPENDIX

Special Topics: The committee has approved the following special topics for the term indicated and informed the Provost of the committee's approval. These items do not require Faculty Council action and are announced here for information only.

The Special Topics listed below are each a first offering in Summer 2014:

MUSC 3493 Special Topics Seminar: Music Education: *Curriculum and Assessment in Music Education*

The Special Topics listed below are each a first offering in Fall 2014:

CMLT 3629 Special Topics: Introduction to Israeli Literature in Translation

JUST 4751 Special Topics in Judaic Studies: *Introduction to Israeli Literature in Translation*

JUST 4751 Special Topics in Judaic Studies: *Messianic Ideas and Movements in Jewish History*

JUST 4751 Special Topics in Judaic Studies: The Jews in Poland and Russia

RELG 3060 Special Topics in Religious Studies: *Introduction to Syriac (Christian) Literature through the Seventh Century CE: From Ahiqar to Zenobius*

The Special Topics listed below are each a second offering in Fall 2014:

CLAS 3240 Special Topics: Magic in the Ancient World