

BROOKLYN COLLEGE
OF
THE CITY UNIVERSITY OF NEW YORK
FACULTY COUNCIL

Meeting of September 13, 2011

The Committee on Undergraduate Curriculum and Degree Requirements herewith submits its recommendations in Curriculum Document 347.

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Note: All curriculum proposals will now include only new course numbers, wherever possible, with old numbers used only when there is no corresponding new number.

Respectfully submitted,

Herve Queneau (Finance & Business Management)
Doug Schwab (Art)
Jeffrey Suzuki (Mathematics)
Aaron Tenenbaum (Computer & Information Science, Chair)

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.

Material located with ~~strike-through~~ is to be deleted and material underlined is to be added

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SECTION A-III: CHANGES IN DEGREE PROGRAMS

Department of Biology

Minor in Biology

Department Requirements

Both Biology 1001 and 1002, or all of the following courses: Biology 2073, 1072, 1071 or 4019, 2074, 2071.

Any two of the following elective courses: Biology ~~2071 or 2072W~~, 4001, 4002, 4010 or Computer and Information Science 2810, Biology 4011, 3006 or 3007W, 3001, ~~3002 or 3002W~~, 3003, 4013, 4015, ~~4016~~, 4022, 3083, 5020, 2010 , 2020 or Psychology 2610, or Biology 2011.

Each course must be completed at Brooklyn College with a grade of C- or higher.

Rationale: All lab courses are removed from the choice of electives

Date of Approval by department: May 3, 2011

Effective date: Fall 2012

SECTION A-III: CHANGES IN DEGREE PROGRAMS

Department of English

B.A. degree program in journalism

HEGIS code 0602; SED program code 81099

Program requirements (39-45 credits)

I. (27 credits) All of the following: English 2401; 3402 or 3405; 3403 or 3406; 3401 or 4402; 2402; 3407; 4401; 4403.

II. (3-9 credits) English 3404 or 5401 or the Summer Broadcast News Institute: Television and Radio 3729.

III. (9 ~~12~~ credits) Nine ~~Twelve~~ credits, approved by the director of the Journalism Program, in any department. No journalism courses may be used to satisfy this requirement.

Students should note that the prerequisite of English 2401 is English 1012 or 2.7 with a grade of B or higher, or English 2115 or 2116 or 2302.

Clearance: None

Rationale: English 3405, Magazine Journalism, was inadvertently dropped from the degree requirements. This restores it; Journalism majors have a choice of taking either English 3402 (Feature Writing) or 3405. The change from 12 credits to 9 in courses from other departments was also inadvertently omitted, and this is corrected.

Date of Department Approval: September 6, 2011

Effective date: Fall, 2011. (These are changes that had been inadvertently omitted from the new Bulletin.)

SECTION A-III: CHANGES IN DEGREE PROGRAMS

Program in Linguistics

B.A. degree program in linguistics

HEGIS code 1505; SED program code 02051

Program requirements (31-34 credits)

Students must complete parts 1 through 5.

1. Linguistics 2001 or Anthropology 2300.
2. Three of the following: Linguistics 3019, 3020, 3021, 3022
3. Two of the following: Anthropology 3301, 3392, English 3520, 3521, 3524, Linguistics 3023, Philosophy 3203 or 3204, Philosophy 3530, Psychology 3540, 3541, Speech Communication Arts and Sciences 1113, 2231; plus any prerequisites of the courses. Other appropriate courses may be substituted for either or both of the courses with permission of the Linguistics Program director.
4. Two of the following: Anthropology 3310, 3320, 3360, Computer and Information Science 2210, 3110, 3130, 3410, English 3196, 3522, 3523, Philosophy 3123, 3220, 3420, 3422, Puerto Rican and Latino Studies 4410, 4420, Psychology 2600, 3530, 3580, Speech Communication Arts and Sciences 1178, 1179; a course in the Department of Modern Languages and Literatures numbered 2021 or above, or Greek 4031 or above, or Latin 4131 or above, or Hebrew 3111 or above, or the equivalent; any unused courses from parts 2 and 3 above; plus any prerequisites of the courses.
5. Linguistics ~~4400W~~ 4001W, a capstone seminar to be taken in the senior year.

Note: When linguistics is a student's second major, up to three courses in parts 3 and 4 which are applicable toward the requirements of the student's first major may also be applied toward the requirements of the second major in linguistics.

Rationale: This corrects minor errors from CD 345.

Date of approval by the program: March 3, 2011

Effective date: Fall 2012

SECTION A-IV: NEW COURSES

Department of Anthropology and Archaeology

3265 Human Anatomy and Physiology 1

3 hr lecture, 3 hr lab; 4.5 credits

A foundation in the form and function of the human body. Exploration and development of an understanding of anatomical terminology, basic science foundations, cellular structure and transport, tissues, integumentary system, skeletal system, muscular system and nervous system. This course is the same as Biology 1501, Health and Nutrition Sciences 2302, and Physical Education and Exercise Science 3281.

Prerequisites:

- 1) high school chemistry or the equivalent taken within the past five years or satisfactory performance on a chemistry competency test, and
- 2) high school biology or the equivalent taken within the past five years or satisfactory performance on a biology competency test.

Recommended: College chemistry (introductory/general) and college biology (introductory/general) are recommended before taking this course

Frequency of Offering: Fall semester (2-3 lecture sections each with 4 lab sections), Summer 1 (1-2 lecture sections each with 2-4 lab sections).

Projected enrollment: 192 - 384 students per year

Rationale: Currently the College lacks the two-semester combined Anatomy and Physiology courses typically offered at the undergraduate level. Historically the Department of Physical Education and Exercise Science has met the needs of our students by providing separate courses in Human Physiology and Human Anatomy.

While offering reasonable coverage of these subjects, this approach has disadvantages. Students attempting to transfer from other institutions often encounter difficulties while our own students may encounter resistance to the use of these separate courses to fulfill pre-requisite requirements for advanced study at other institutions.

By migrating to the standard approach of a two semester combined Anatomy and Physiology platform we will eliminate these hurdles. Combining Anatomy and Physiology will allow our students to study form and function concurrently in a lecture and laboratory setting, providing an enriching and effective learning environment.

The proposed courses have been designed in accordance with Course Guidelines for Undergraduate Instruction of Human Anatomy and Physiology of the Human Anatomy and Physiology Society (HAPS) and meet HAPS Learning Outcomes Project learning objectives www.hapsweb.org. Adherence to these national standards maximizes

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compliance with accepted methods and minimizes problems with transfer of courses to or from other institutions.

Clearances: Departments of Biology, Health and Nutrition Sciences, and Physical Education and Exercise Science.

Program/Department goals addressed by course:

- This course will provide students with a strong foundation in the form and function of the human body.
- This course will help prepare students to attain their career goals; anatomy & physiology is a requirement for certain majors and prerequisite for many professional schools including; physical educators, exercise scientists, nursing, occupation therapy, physical therapy, physician assistant among others.
- This course will enhance the learning environment by providing an active and engaging setting for our students, by providing a well-equipped laboratory to help translate theoretical knowledge into practical application.
- This course set-up will allow us to accommodate a larger base of students, which will prevent us from turning away students and will facilitate the integration of our many transfer students.

Date of departmental approval: April 12, 2011.

Effective date: Summer 2012

SECTION A-IV: NEW COURSES

Department of Anthropology and Archaeology

3266 Human Anatomy and Physiology 2

3 hr lecture, 3 hr lab; 4.5 credits

Introduction to the form and function of the human body. Exploration and development of an understanding of blood, heart, blood vessels, respiratory system, digestive system, metabolism, urinary system, fluid & electrolyte balance, reproductive system, immune system and development. This course is the same as Biology 1502, Health and Nutrition Sciences 2303, and Physical Education and Exercise Science 3285.

Prerequisites: One of the following: Anthropology and Archaeology 3265, Biology 1501, Physical Education and Exercise Science 3281, or Health and Nutrition Sciences 2302.

Frequency of Offering: Spring semester (2-3 lecture sections with 4 lab sections each), Summer Session 2 (1-2 lecture sections with 2-4 lab sections each).

Projected enrollment: 192 - 384 per year

Rationale: Currently, the college lacks the two-semester combined Anatomy and Physiology courses typically offered at the undergraduate level. Historically the Department of Physical Education and Exercise Science has met the needs of our students by providing separate courses in Human Physiology and Human Anatomy.

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Clearances: Departments of Biology, Health and Nutrition Sciences, and Physical Education and Exercise Science.

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Department goals addressed by this course:

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Date of departmental approval: April 12, 2011.

Effective date: Summer 2012.

SECTION A-IV: NEW COURSES

Department of Biology

1501 Human Anatomy and Physiology 1

3 hr lecture, 3 hr lab; 4.5 credits

A foundation in the form and function of the human body. Exploration and development of an understanding of anatomical terminology, basic science foundations, cellular structure and transport, tissues, integumentary system, skeletal system, muscular system and nervous system. This course is the same as Anthropology and Archaeology 3265, Health and Nutrition Sciences 2302, and Physical Education and Exercise Science 3281.

Prerequisites:

- 1) high school chemistry or the equivalent taken within the past five years or satisfactory performance on a chemistry competency test, and
- 2) high school biology or the equivalent taken within the past five years or satisfactory performance on a biology competency test.

Recommended: College chemistry (introductory/general) and college biology (introductory/general) are recommended before taking this course

Frequency of Offering: Fall semester (2-3 lecture sections each with 4 lab sections), Summer 1 (1-2 lecture sections each with 2-4 lab sections).

Projected enrollment: 192 - 384 students per year

Rationale: Currently the College lacks the two-semester combined Anatomy and Physiology courses typically offered at the undergraduate level. Historically the Department of Physical Education and Exercise Science has met the needs of our students by providing separate courses in Human Physiology and Human Anatomy.

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Clearances: Departments of Anthropology and Archaeology, Health and Nutrition Sciences, and Physical Education and Exercise Science.

Program/Department goals addressed by course:

- This course will help prepare students to attain their career goals; anatomy & physiology is a requirement for certain majors and prerequisite for many professional schools including; physical educators, exercise scientists, nursing, occupation therapy, physical therapy, physician assistant among others.
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Date of departmental approval: April 12, 2011.

Effective date: Summer 2012

SECTION A-IV: NEW COURSES

Department of Biology

1502 Human Anatomy and Physiology 2

3 hr lecture, 3 hr lab; 4.5 credits

Introduction to the form and function of the human body. Exploration and development of an understanding of blood, heart, blood vessels, respiratory system, digestive system, metabolism, urinary system, fluid & electrolyte balance, reproductive system, immune system and development. This course is the same as Anthropology and Archaeology 3266, Health and Nutrition Sciences 2303, and Physical Education and Exercise Science 3285.

Prerequisites: One of the following: Anthropology and Archaeology 3265, Biology 1501, Health and Nutrition Sciences 2302, or Physical Education and Exercise Science 3281.

Frequency of Offering: Spring semester (2-3 lecture sections with 4 lab sections each), Summer Session 2 (1-2 lecture sections with 2-4 lab sections each).

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Clearances: Departments of Anthropology and Archaeology, Health and Nutrition Sciences, Physical Education and Exercise Science.

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Department goals addressed by this course:

- This course will help prepare students to attain their career goals; anatomy and physiology is a requirement for certain majors and prerequisite for many professional schools including; physical educators, exercise scientists, nursing, occupational therapy, physical therapy and physician assistant among others.
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Date of departmental approval: April 12, 2011.

Effective date: Summer 2012.

SECTION A-IV: NEW COURSES

Department of Biology

3002W Animal Form and Function Laboratory

5 hours, 3 credits

Dissection and microscopic examination of the structure and development of animals. Introduction to major ideas of evolution and changes in animal body plans. Emphasis on current experimental techniques to measure animal behavior, including critical scientific literature review, field observations of animal behavior, multiple working-hypotheses generation, testing of mutually exclusive predictions using modern ethological techniques (ethogram construction and time-budget analysis), and simple statistical analysis of behavioral data. Emphasis is on how ecological variation and selection impacts animal behavior and on measuring and analyzing animal behavior in a rigorous way. Literature review, weekly writings, a field animal-behavior project, a group presentation and a major research paper will be required. Writing intensive course. (Not open to students who have completed Biology 3002, 3080, or 3081.)

Corequisite: Biology 3001

Prerequisite: English 1012 and any two of the following: Biology 1072, 2011, 2073, 3003, 3006 or 3007W, 4019.

Number of students: 100 per semester

Frequency of offering: 5 sections per semester

Rationale: Bio 3002, Animal Form and Function Laboratory, is a required course for undergraduate Biology majors. In 2010 it was offered in two formats: a traditional laboratory section with dissections, microscopy and laboratory practicals; and as a laboratory with an additional animal field study with a scientific paper and presentation of results. We seek to formalize the distinction and to recognize the additional student workload that occurs in the research/writing format, as well as to add another “W” option for the Biology major.

The new option Bio 3002W will be offered with all 5 sections using the writing intensive option. Thus every upper-level Biology student will learn scientific methods, analysis, and scientific paper writing. Bio 3002W will fulfill the Writing-Intensive requirements for a Biology BS, BA, or BA in Biology and Secondary Education. The old Biology 3002 is being retained.

Currently, Biology students do not receive mandatory training in experimental methods, data analysis, and scientific research writing in Biology. Here students will be introduced to these techniques via a project performing field studies of animals in the urban environment, or at the Prospect Park Zoo. Students will learn research design, preliminaries to measurement, measures of behavior, recording methods, recording

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media, reliability and validity of measures, statistical analysis and interpretation of data, and the writing of a scientific report and an oral presentation based upon their study.

All materials in Bio 3002 will be retained. The additional hour will be used as discussion for identifying and reviewing relevant literature, co-editing of literature overviews, development of and revision of methods for experiments and data recording, data organization and statistical analysis, writing/revisions of results, writing and revision of final discussion of results, a final power-point presentation on their field research, review of an outline of the final paper, along with two rough drafts, and the final completed scientific research paper.

Clearances: WAC approval: November 18, 2010

Date of departmental approval: December 7, 2010

Effective date: Fall 2012

SECTION A-IV: NEW COURSES

Department of Biology

4013 Principles of Immunology

3 hours, 3 credits

The immune system; immunity; innate and adaptive immunity; antigen presentation; cellular and humoral immunity; tolerance; immune system disorders.

Prerequisite: Biology 3003

Projected enrollment: 30 students per year.

Frequency of offering: Once a year in the fall semester.

Clearances: None

Rationale: Immunology is a rapidly advancing field and is essential to understanding infectious diseases as well as non-infectious illnesses such as chronic inflammation and autoimmunity. Immunology is touched on in General Biology and Microbiology, but there are currently no courses offered in the Biology Department that cover immunology in significant detail. The interactions between the innate immune response and adaptive immune response are complex, involving numerous different cell types and signaling molecules, and require a complete course dedicated to these topics. Moreover, a majority of the Biology majors pursue careers in biomedical and health-related fields, and as such, a course in immunology would be very practical preparation for their subsequent studies.

Program goals addressed by the proposed course:

1. To broaden the elective offerings available to Biology majors and other students.
2. To provide a course that serves the needs of students planning on pursuing advanced degrees in health-related programs.

Date of department approval: March 8, 2011

Effective Date: Fall 2012

SECTION A-IV: NEW COURSES

Department of Health and Nutrition Sciences

2302 Human Anatomy and Physiology 1

3 hr lecture, 3 hr lab; 4.5 credits

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Prerequisites:

- 1) high school chemistry or the equivalent taken within the past five years or satisfactory performance on a chemistry competency test, and
- 2) high school biology or the equivalent taken within the past five years or satisfactory performance on a biology competency test.

Recommended: College chemistry (introductory/general) and college biology (introductory/general) are recommended before taking this course

Frequency of Offering: Fall semester (2-3 lecture sections each with 4 lab sections), Summer 1 (1-2 lecture sections each with 2-4 lab sections).

Projected enrollment: 192 - 384 students per year

Rationale: Currently the College lacks the two-semester combined Anatomy and Physiology courses typically offered at the undergraduate level. Historically the Department of Physical Education and Exercise Science has met the needs of our students by providing separate courses in Human Physiology and Human Anatomy.

While offering reasonable coverage of these subjects, this approach has disadvantages. Students attempting to transfer from other institutions often encounter difficulties while our own students may encounter resistance to the use of these separate courses to fulfill pre-requisite requirements for advanced study at other institutions.

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Clearances: Departments of Anthropology and Archaeology, Biology, and Physical Education and Exercise Science.

Program/Department goals addressed by course:

- This course will provide students with a strong foundation in the form and function of the human body.
- This course will help prepare students to attain their career goals; anatomy & physiology is a requirement for certain majors and prerequisite for many professional schools including; physical educators, exercise scientists, nursing, occupation therapy, physical therapy, physician assistant among others.
- This course will enhance the learning environment by providing an active and engaging setting for our students, by providing a well-equipped laboratory to help translate theoretical knowledge into practical application.
- This course set-up will allow us to accommodate a larger base of students, which will prevent us from turning away students and will facilitate the integration of our many transfer students.

Date of departmental approval: April 12, 2011.

Effective date: Summer 2012

SECTION A-IV: NEW COURSES

Department of Health and Nutrition Sciences

2303 Human Anatomy and Physiology 2

3 hr lecture, 3 hr lab; 4.5 credits

Introduction to the form and function of the human body. Exploration and development of an understanding of blood, heart, blood vessels, respiratory system, digestive system, metabolism, urinary system, fluid & electrolyte balance, reproductive system, immune system and development. This course is the same as Anthropology and Archaeology 3266, Biology 1502, and Physical Education and Exercise Science 3285. *Prerequisites:* One of the following: Anthropology and Archaeology 3265, Biology 1501, Health and Nutrition Sciences 2302, or Physical Education and Exercise Science 3281.

Frequency of Offering: Spring semester (2-3 lecture sections with 4 lab sections each), Summer Session 2 (1-2 lecture sections with 2-4 lab sections each).

Projected enrollment: 192 - 384 per year

Rationale: Currently, the college lacks the two-semester combined Anatomy and Physiology courses typically offered at the undergraduate level. Historically the Department of Physical Education and Exercise Science has met the needs of our students by providing separate courses in Human Physiology and Human Anatomy.

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Clearances: Departments of Biology, Anthropology and Archaeology, Physical Education and Exercise Science.

Department goals addressed by this course:

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Date of departmental approval: April 12, 2011.

Effective date: Summer 2012.

SECTION A-IV: NEW COURSES

Department of Physical Education and Exercise Science

3281 Human Anatomy and Physiology 1

3 hr lecture, 3 hr lab; 4.5 credits

A foundation in the form and function of the human body. Exploration and development of an understanding of anatomical terminology, basic science foundations, cellular structure and transport, tissues, integumentary system, skeletal system, muscular system and nervous system. This course is the same as Anthropology 3265, Biology 1501, and Health and Nutrition Sciences 2302.

Prerequisites:

- 1) high school chemistry or the equivalent taken within the past five years or satisfactory performance on a chemistry competency test, and
- 2) high school biology or the equivalent taken within the past five years or satisfactory performance on a biology competency test.

Recommended: College chemistry (introductory/general) and college biology (introductory/general) are recommended before taking this course

Frequency of Offering: Fall semester (2-3 lecture sections each with 4 lab sections), Summer 1 (1-2 lecture sections each with 2-4 lab sections).

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Program/Department goals addressed by course:

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Date of departmental approval: April 12, 2011.

Effective date: Summer 2012

SECTION A-IV: NEW COURSES

Department of Physical Education and Exercise Science

3285 Human Anatomy and Physiology 2

3 hr lecture, 3 hr lab; 4.5 credits

Introduction to the form and function of the human body. Exploration and development of an understanding of blood, heart, blood vessels, respiratory system, digestive system, metabolism, urinary system, fluid & electrolyte balance, reproductive system, immune system and development. This course is the same as Anthropology and Archaeology 3266, Biology 1502, and Health and Nutrition Science 2303.

Prerequisites: One of the following: Anthropology or Archaeology 3265, Biology 1501, Health and Nutrition Sciences 2302 or Physical Education and Exercise Science 3281.

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While offering reasonable coverage of these subjects, this approach has disadvantages. Students attempting to transfer from other institutions often encounter difficulties while our own students may encounter resistance to the use of these separate courses to fulfill pre-requisite requirements for advanced study at other institutions.

By migrating to the standard approach of a two semester combined Anatomy and Physiology platform we will eliminate these hurdles. Combining Anatomy and Physiology will allow our students to study form and function concurrently in a lecture and laboratory setting, providing an enriching and effective learning environment.

The proposed courses have been designed in accordance with Course Guidelines for Undergraduate Instruction of Human Anatomy and Physiology of the Human Anatomy and Physiology Society (HAPS) and meet HAPS Learning Outcomes Project learning objectives www.hapsweb.org. Adherence to these national standards maximizes compliance with accepted methods and minimizes problems with transfer of courses to or from other institutions.

Clearances: Departments of Anthropology and Archaeology, Biology, Health and Nutrition Sciences.

Material located with ~~strike-through~~ is to be deleted and material underlined is to be added

Department goals addressed by this course:

- This course will provide students with a strong foundation in the form and function of the human body.
- This course will help prepare students to attain their career goals; anatomy and physiology is a requirement for certain majors and prerequisite for many professional schools including; physical educators, exercise scientists, nursing, occupational therapy, physical therapy and physician assistant among others.
- This course will enhance the learning environment by providing an active and engaging setting for our students, by providing a well-equipped laboratory to help translate theoretical knowledge into practical application.
- This course set-up will allow us to accommodate a larger base of students, which will help prevent us from turning away students and will facilitate the integration of our many transfer students.

Date of departmental approval: April 12, 2011.

Effective date: Summer 2012.

SECTION A-V: CHANGES IN EXISTING COURSES

Department of Judaic Studies

Change in prerequisite

FROM:

3036 Mystics, Pietists, and Heretics: Topics in Early Modern Jewish History

3 hours; 3 credits

Explores aspects of the intellectual and cultural history of the Jews from the expulsion of Spanish Jewry in 1492 to the French Revolution in 1789. This course particularly emphasizes Jewish-Christian interaction, the Marrano Diaspora, Messianism, and the influence of such larger cultural trends as the Renaissance, Reformation, and absolutism upon the development of Jewish culture.

~~Prerequisite: Judaic Studies 3012.~~

TO:

3036 Mystics, Pietists, and Heretics: Topics in Early Modern Jewish History

3 hours; 3 credits

Explores aspects of the intellectual and cultural history of the Jews from the expulsion of Spanish Jewry in 1492 to the French Revolution in 1789. This course particularly emphasizes Jewish-Christian interaction, the Marrano Diaspora, Messianism, and the influence of such larger cultural trends as the Renaissance, Reformation, and absolutism upon the development of Jewish culture.

Rationale: The department reviewed carefully all course prerequisites and decided to remove most of them in light of the realities connected with a small department, the frequency of course offerings, changes in scheduling at Brooklyn College, transfer students, Yeshiva credits, and A.P. credits. Our Special Topics class as well as our Independent Studies class, however, retain these prerequisites.

Date of approval by Department: May 3, 2011

Effective Date of the Change: Fall 2012

SECTION A-VI: OTHER CHANGES

Department of Biology

Withdrawal of course

~~16.1 Biometry~~

~~4 hours laboratory; 2 credits~~

~~Analysis and interpretation of biological data.~~

~~Prerequisite: Biology 3 and 4; and Core Studies 5 or the equivalent; or permission of the chairperson.~~

Rationale: This course will no longer be offered. CD 344 (March 2011) changed this course number to a new-format course number, but the new-format number was already in use by the Department of Biology. The department has now decided that it no longer needs the course at all, and asks to withdraw it.

Date Approved by the Department: April 12, 2011

Effective Date: Fall 2012

SECTION A-VI: OTHER CHANGES

Department of Judaic Studies

Withdrawal of course

~~3010 Jewish Biography in the Classroom~~

~~3 hours; 3 credits~~

~~An analysis of the experience of American Jews as an immigrant community focusing on the interaction between Jewish culture, tradition, and values and the fundamental ideals of American culture. The biographies of American Jews and their search for meaning within the American experience. Particular attention will be paid to the role of Jewish personalities in the areas of philanthropy, social work, labor relations, public education, entertainment, and American intellectual life.~~

Rationale: This course was created in tandem with the School of Education's offerings. They have reworked their courses and therefore JUST 3010 has become obsolete.

Date of approval by Department: May 3, 2011

Effective Date of the Change: Fall 2012