### **BROOKLYN COLLEGE**

OF

### THE CITY UNIVERSITY OF NEW YORK

### **FACULTY COUNCIL**

Meeting of May 8, 2012

The Committee on Undergraduate Curriculum and Degree Requirements herewith submits its recommendations in Curriculum Document 355.

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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,

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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 <a href="mailto:tbaum@sci.brooklyn.cuny.edu">tbaum@sci.brooklyn.cuny.edu</a> or (718) 951-5657 prior to the meeting.

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# SECTION A-III: CHANGES IN DEGREE REQUIREMENTS Department of Biology

## **B.A degree program in biology**

HEGIS code 0401

## **Department requirements** (35 - 41.5 credits)

To enroll in any of the following courses--Biology 1002, 2074, 2071 or 2072W, 2002 or 2002W and 3004--students must have completed the appropriate pre- or co-requisite courses with a grade of C- or better. A student with a grade of D+ or lower in any biology course applied toward fulfillment of department requirements must repeat the course until the grade of C- or higher is earned, or offer another course of equal or higher rank. Any substitution of courses must be approved by the chairperson or deputy chair for advising. At least one course taken must be a writing intensive (W) course offered by the Department of Biology. Students who completed Biology 1080 and 1081 before fall 2010 may substitute them for Biology 1001 and 1002 in all degree requirements.

One of the following biology sequences, a), b), c), or d).

a) All of the following: Biology 1071 or 4019, 1072, 2073 or 4019, 3006 or 3007W, 3003, 3011.

All of the following: Biology 2074, 2071 or 2072W, 3004.

At least 6 credits of the following: Biology 4001, 4002, 4011, 4010/Computer and Information Science 2810, Biology 2001, 2002 or 2002W, 2010, 2020/Psychology 2610, 4015, 4016, 4012, 4013, 4022, 3083, 5020, Interdisciplinary Studies 4101 or 4102, Chemistry 4570 or 4571 or other advanced courses approved by the chairperson or deputy chair for advising.

b) All of the following: Biology 1001, 1002, 3003, 3004 4016, 3006 or 3007W, 3011.

At least 8 credits of the following: Biology 2001, 2002 or 2002W, 4001, 4002, 4011, 2071 or 2072W, 4010/Computer and Information Science 2810, Biology 2010, 2020/Psychology 2610, 4015, 4016, 4012, 4013, 4022, 3083, 5020, 5001 or 5010 or 5003W or 5014W or Interdisciplinary Studies 4101 or 4102, Chemistry 4570 or 4571 or other advanced courses approved by the chairperson or deputy chair for advising.

c) All of the following: Biology 1002, 1071, 1072, 3003, 3004, 3006 or 3007W, 3011.

At least 8 credits of the following: Biology 2001, 2002 or 2002W, 4001, 4002, 4011, 2071 or 2072W, 4010/Computer and Information Science 2810, Biology 2010, 2020/Psychology 2610, 4015, 4016, 4012, 4013, 4022, 3083, 5020, 5001 or 5010 or 5003W or 5014W or Interdisciplinary Studies 4101 or 4102, Chemistry 4570 or 4571 or

other advanced courses approved by the chairperson or deputy chair for advising.

d) All of the following: Biology 1001, 2073, 2074, 3003, 3004, 3006 or 3007W, 3011.

At least 8 credits of the following: Biology 2001, 2002 or 2002W, 4001, 4002, 4011, 2071 or 2072W, 4010/Computer and Information Science 2810, Biology 2010, 2020/Psychology 2610, 4015, 4016, 4012, 4013, 4022, 3083, 5020, 5001 or 5010 or 5003W or 5014W or Interdisciplinary Studies 4101 or 4102, Chemistry 4570 or 4571 or other advanced courses approved by the chairperson or deputy chair for advising.

One of the following chemistry requirements, a), b), c), or d):

- a) Chemistry 1100 (or both 1050 and 2050) and 2500.
- b) Chemistry 1100 (or both 1050 and 2050), and 2100, and 3510 (or both 3511 and 3512).
- c) Chemistry 1100 (or both 1050 and 2050), 2100, 3510 (or both 3511 and 3512), and 3520 (or both 3521 and 3522).
- d) Chemistry 1100 (or both 1050 and 2050), and 2100 and 2500.

Mathematics 1201.

#### **Department recommendations**

Chemistry 3510 (or both 3511 and 3512) and 3520 (or both 3521 and 3522) and Physics 1100 and 2100 are required for some professional programs and are strongly recommended for prospective graduate students in biology.

Students who anticipate majoring in biology must see a departmental adviser before the end of the sophomore year in order to plan their programs.

### Additional requirements for a B.A. degree

Candidates for a B.A. degree with a major in biology must complete at least 18 credits in advanced courses in the Biology department or allowed electives in other departments as described above (not including Biology 1071 and 1072 OR Biology 1001). These 18 credits must be completed with a grade of C- or higher in each course, and 10 or more credits must be completed at Brooklyn College. Specific course requirements for a B.A. degree are described above.

**Rationale:** This corrects editing errors for changes in this degree, as they appeared in CD 353.

Date of departmental approval: March 13, 2012.

Effective date: Fall 2013.

# SECTION A-III: CHANGES IN DEGREE REQUIREMENTS Program in Children and Youth Studies

## **B.A degree program in Children and Youth Studies**

HEGIS code: 2009.00; SED program code: 33088

## **Department requirements** (30 credits)

- a) All of the following courses: Children and Youth Studies 2100W, 4200, 4900.
- b) Five of the following courses: Children and Youth Studies <u>2120</u>; 2200; ,3110; 3610; 3410; 3310, 3320; 3620; 3630; 3510; 3430; 3130; 3700; 4100; 5100; 5200.
- c) Two of the following courses: Africana Studies 3335; Education 2002; English 3189 or Speech 1717 or Speech 2231; Health and Nutrition Sciences 3170; History 3320 or 3457 (crosslisted as Children and Youth Studies 3120); Psychology 2210 or 3220 or 3240; Puerto Rican and Latino Studies 2005; Sociology 2400 or 2401.

All courses must be completed with a grade of C or higher. A minimum of 9 credits must be completed at Brooklyn College.

Students interested in majoring in Children <u>and Youth</u> Studies must consult a program advisor as early as possible. Students should plan to complete all major requirements before taking the capstone course, CHST 4900.

**Rationale**: A new children's studies course is being added to the major in children and youth studies as an option. The content and subject matter of this course fulfills the requirements for the interdisciplinary children and youth studies bachelor of arts degree program. The course, CHST 2120—Generation Next: Adolescence and Youth Culture in Cross Cultural Perspective, is a new course introduced in CD 353.

**Date of program committee approval:** March 19, 2012.

Effective Date: Fall 2013.

# SECTION A-III: CHANGES IN DEGREE REQUIREMENTS Program in Children and Youth Studies

Children's and Youth Studies concentration for majors in the following programs: early childhood education teacher (birth-grade 2); childhood education teacher (grades 1-6)

SED program codes: 26737 and 26829, respectively

## **Department requirements**

The requirements for the teacher education programs indicated above are described in the "Education" Early Childhood Education and Childhood Education sections in the Bulletin. Students who major in either of these programs and who elect a concentration in children and youth studies must compete at least 30 credits in the Program in Children and Youth Studies Program with a grade of C or higher in each course.

## **Concentration requirements (30 credits)**

Children and Youth Studies 2100.

Two courses from the following: Children and Youth Studies 3110; Children and Youth Studies 3120 or History 3320; Sociology 2400 or 2401.

Three courses from the following: Children and Youth Studies 4200; 3610; 3620; 3320; Psychology 2210 or 3220 or 3240; Speech 2231.

Three courses from the following: Africana Studies 3335; Children and Youth Studies 2120; 2200; 3310; 3510; 3630; Health and Nutrition Sciences 3170; Puerto Rican and Latino Studies 2005.

One course from the following: Children and Youth Studies 3410; 3430; 3130; English 3189; Speech 1717

All courses must be completed with a grade of C or higher.

A minimum of nine credits must be completed at Brooklyn College.

Students who are interested in this concentration in Children's Studies should consult with the Children and Youth Studies program adviser to plan an appropriate sequence of courses and to declare their concentration.

**Rationale**: A new children's studies course is being added to the concentration in children and youth studies as an option. The content and subject matter of this course fulfills the requirements for the interdisciplinary children and youth studies concentration program. The course, CHST 2120—Generation Next: Adolescence and Youth Culture in Cross Cultural Perspective, is a new course introduced in CD 353.

Date of program committee approval: March 19, 2012.

Effective Date: Fall 2013.

# SECTION A-III: CHANGES IN DEGREE REQUIREMENTS Program in Children and Youth Studies

## Minor in Children's and Youth Studies

**Department requirements (15 credits)** 

Fifteen credits as follows:

Once course from the following: Children and Youth Studies 2100 or 3110.

Two courses from the following: Children and Youth Studies 4200; <u>2120</u>; 2200; 3410; 3310; 3620; 3630; English 3189 or Speech 1717 or 2231; Health and Nutrition Sciences 3170 or Children and Youth Studies 4100; Psychology 2210; Sociology 2401.

Two courses from the following: Africana Studies 3335; Children and Youth Studies 3610; 3510; 3130; 3430; 3320; 5100; Childhood and Special Education 2002 or Secondary Education 2002; Children and Youth Studies 3120 or History 3320; Puerto Rican and Latino Studies 2005.

All courses must be completed with a grade of C or higher.

A minimum of nine credits must be completed at Brooklyn College.

Students interested in this minor should consult with the Children's and Youth Studies program advisor to plan an appropriate sequence of courses and to declare their minor.

Rationale: A new course is being added to the minor in children and youth studies as an option. The content and subject matter of this course fulfills the requirements for the interdisciplinary children's studies minor program. The course, CHST 2120—Generation Next: Adolescence and Youth Culture in Cross Cultural Perspective, is a new course, introduced in CD 353. The Education requirement is being changed to reflect the new departments in the School of Education.

Date of program committee approval: March 19, 2011.

Effective Date: Fall 2013.

# SECTION A-III: CHANGES IN DEGREE REQUIREMENTS Department of Secondary Education

The Department of Secondary Education offers certification programs in the following areas:

- 7-12 programs: biology, chemistry, earth science, English, mathematics, modern languages (French, Italian, Spanish), physics, social studies (Africana studies, American studies, anthropology, economics, history, political science, Puerto Rican and Latino studies, sociology), and
- Special subjects (all grades): music, physical education.

See the corresponding academic department section for information regarding specific HEGIS and SED codes and additional major requirements.

All programs are writing-intensive. These programs reflect changes in teacher certification requirements recently implemented by the New York State Education Department.

Degree programs in secondary education and in special subjects include a major in an appropriate department of the college and in the case of social studies may also include an approved selection of interdepartmental courses. Completion of any of the specific programs in secondary education along with a major in the appropriate subject area qualifies students for New York State initial certification in their particular subject area for grades 7 through 12. Completion of a special subjects program as part of a major in music education or physical education qualifies students for New York State initial certification in those\_subjects for all grades.

Students qualifying for the initial certification in English, social studies, mathematics, or one of the sciences may obtain an extension to teach in grades 5 and 6 by taking Secondary Education 3454.

Students, except music education majors, must complete 21 credits in the Department of Secondary Education as specified below.

Students pursuing Initial Certification in English, Social Studies, Mathematics, Science, Modern Languages, or Physical Education must take the following:

12 15 credits in General Education courses:

- Secondary Education 2001 The Art, Philosophy, and Culture of Teaching
- Secondary Education 2002 Urban Children and Adolescents: Development and Education
- Secondary Education 3401 Language and Literacy Development in Adolescence Education and Special Subjects

- Secondary Education 3402 Integrative and Multidisciplinary Teaching and Learning
- Secondary Education 3456 Teaching Students with Special Needs

#### And

### The appropriate 5-credit course in student teaching

- Secondary Education 4401 Seminar on Methods of Teaching English, Student Teaching I, or
- Secondary Education 4402 Seminar on Methods of Teaching Social Studies, Student Teaching I, or
- Secondary Education 4403 Seminar on Methods of Teaching Mathematics, Student Teaching I, or
- Secondary Education 4404 Seminar on Methods of Teaching Science, Student Teaching I, or
- Secondary Education 4405 Seminar on Methods of Teaching Modern Languages, Student Teaching I, or
- Secondary Education 4406 Seminar on Methods of Teaching Physical Education, Student Teaching I

#### And

The appropriate 4-credit course in student teaching:

- Secondary Education 4407 Advanced Seminar on Methods of Teaching English, Student Teaching II, or
- Secondary Education 4408 Advanced Seminar on Methods of Teaching, Student Social Studies Teaching II, or
- Secondary Education 4409 Advanced Seminar on Methods of Teaching Mathematics, Student Teaching II, or
- Secondary Education 4410 Advanced Seminar on Methods of Teaching Science, Student Teaching II, or
- Secondary Education 4411 Advanced Seminar on Methods of Teaching Modern Languages, Student Teaching II, or
- Secondary Education 4412 Advanced Seminar on Methods of Teaching Physical Education, Student Teaching II

The four-term 24 24 credits sequence may be started in the lower-sophomore term, or upper-sophomore term.

Students must also take a major in the appropriate department. Consult the appropriate departmental section in this Bulletin for the major requirements.

#### **Social Studies Teacher**

HEGIS code 2201.01; SED program code 26754

In the case of social studies, in addition to the above <u>24</u> <u>24</u> credits in Secondary Education, students must complete a major in one of the following: Africana studies, American studies, anthropology, economics, history, political science, Puerto Rican and Latino studies, or sociology. Study must include within the major, or in addition to courses in the major, study in economics, government, and at least 21 credits in the history and geography of the United States and the world.

#### **Music Education**

In addition to the required Bachelor of Music in Music Education curriculum, music education majors must complete the following courses, including student teaching (12 credits):

Secondary Education 2001 and 2002 (6 credits)

Secondary Education 4413 (6 credits)

Students pursuing Initial Certification in music must complete the Bachelor of Music in Music Education in order to meet the state requirements.

#### Admission requirements and academic standing

Students must have a GPA of 2.50 or higher based on a minimum of 30 credits in liberal arts and sciences to take Secondary Education 2001, 2002, 3401, or 3402 or 3456;

an average of 2.75 in Secondary Education 2001 and 2002 is required to continue to Secondary Education -3401 and/or Secondary Education 3402 and or Secondary Education 3456;

to take Secondary Education 4413 or 440-4406, students must have an overall GPA of 2.75 or higher and permission of the program chair or deputy;

to take Secondary Education 4407-4412, students must have a B- or higher in Secondary Education 4401-4406, a GPA of 2.75 or higher in their major, and the permission of the appropriate department chair or deputy.

A student who takes Secondary Education 4407-4412 prior to Secondary Education 4401-4406 must earn a B- or better grade in Secondary Education 4407-4412 to take Secondary Education 4401-4406.

**Rationale:** The addition of Secondary Education 3456 responds to the New York State Department of Education's new requirement that all candidates for Initial Certification in

content areas in secondary education must have a stand-alone course in special education.

Date of departmental approval: May 1, 2012.

Effective date: Fall 2012.

# SECTION A-IV: NEW COURSES Department of English

## 3143 Thematic Studies in the Nineteenth-Century Novel

3 hours, 3 credits

Study of a topic in either the early or late nineteenth-century novel. Examples of topics include: "Victorian Mystery"; "Domestic Realism"; "The Marriage Novel"; "The Novel of Social Realism"; "Victorian Fantasy and Fairy Tale." Topic to be selected by instructor.

Prerequisite: English 1010

Frequency of offering: once per year

**Projected enrollment**: one section of 25 students

Clearances: none.

**Rationale:** This course is intended to develop and delve further into fiction of the nineteenth century than our one-semester course, English 3142, Major English Novels of the Nineteenth Century, permits. The literature of this period includes a vast number of novels, most of which are long and dense, so that only a sampling is possible in one term.

**Department Goals Addressed By the Course:** This course will help meet department goals by enhancing student ability to:

- develop an understanding of the culture and literature of the nineteenth century
- develop ability to understand and deeply analyze literary texts
- learn to appreciate literary complexity, ambiguity, and paradox
- develop ability to understand and apply literary/critical theory
- reason, think critically, evaluate, use evidence, and make judgments
- use appropriate conventions of language, including correct grammar, spelling, and punctuation
- revise papers
- develop listening skills
- learn to be self-reflective
- develop class community

Date of departmental approval: April 3, 2012.

Effective date: Fall 2013.

# SECTION A-IV: NEW COURSES Department of Health and Nutrition Sciences

### **4211 Advanced Nutrition I**

3 hours; 3 credits

Biochemical and physiological functions of the nutrients with an emphasis on the interaction between micronutrient function and macronutrient metabolism, including the roles of vitamin D and B6 in protein metabolism, and the B vitamins in energy metabolism. Nutrient-gene interactions in humans. Metabolic interrelationships applied to the study of human nutrition. Nutrient requirements of individuals in various environments and, where feasible, stages of life; dietary, biochemical, and clinical methods of appraisal, and mechanisms responsible for clinical symptoms of deficiency. Prerequisites: Health and Nutrition Sciences 2210, 3210, 3300.

Frequency of offering: every fall and spring semester

**Projected enrollment:** 1 section of 30 students

Rationale: Nutrition is an integrated science including material from multiple disciplines such as biochemistry, physiology, public health, etc. Often nutrients and their metabolism are taught as silos without consideration to their dependency upon each other. The objective of HNSC 4211 and its subsequent sister course 4212 is to no longer handle macro- and micro-nutrient metabolism as separate items, but to present nutrients as interactive. The metabolism of nutrients will be taught in a format that demonstrates that one nutrient depends upon the adequacy and metabolism of multiple nutrients working in concert with each other for the maintenance of optimal health.

Clearances: None

**Program/department goals addressed by course:** The learning outcomes below contribute to meeting the goals of the Didactic Program in Dietetics (PDP) required for accreditation: namely, to deliver a high quality DPD that focuses on practitioner foundation knowledge and skills and to deliver a program that supports students' progress and fosters their professional development, while providing them with a basic science understanding of nutrient function and metabolism.

At the end of this course, students will be able to:

- critically analyze selected current literature with respect to a research question as well as a way to supplement textbook knowledge.
- define human energy requirements in terms of biochemical and physiological components.

- define the role that micronutrients play in protein digestion, synthesis and degradation; and the metabolism of each nutrient itself.
- describe the individual and interactive roles that select vitamins and minerals play as modulators of protein expression and function.
- describe the inter-organ metabolism (e.g. gut and liver; liver and kidney) of nutrients and impact of each organ on nutrient requirement.
- connect clinical symptoms for a nutrient deficiency with biochemical function of the nutrient.

**Date of Departmental Approval:** May 1, 2012.

Effective Date: Fall 2012.

# SECTION A-IV: NEW COURSES Department of Health and Nutrition Sciences

**4212 Advanced Nutrition II** 3 hours lecture: 3 credits

Biochemical and physiological functions of the nutrients with an emphasis on the interaction between micronutrient function and macronutrient metabolism, including the role of thiamin in carbohydrate metabolism, and iron and copper in lipid metabolism. Nutrient-gene interactions in humans. Metabolic interrelationships applied to the study of human nutrition. Nutrient requirements of individuals in various environments and, where feasible, stages of life; dietary, biochemical, and clinical methods of appraisal, and mechanisms responsible for clinical symptoms of deficiency.

Prerequisites: Health and Nutrition Sciences 2210, 3210, 3300, 4211.

Frequency of offering: every fall and spring semester

**Projected enrollment:** 1 section of 30 students

Rationale: Nutrition is an integrated science including material from multiple disciplines such as biochemistry, physiology, public health, etc. Often nutrients and their metabolism are taught as silos without consideration to their dependency upon each other. The objective of HNSC 4212 is to complement HNSC 4211 in a manner that eliminates the handling of macro- and micro-nutrient metabolism as separate items, but present nutrient embolism as interactive collection of processing involving both macro-and micro-nutrients. The metabolism of nutrients will be taught in a format that demonstrates that one nutrient depends upon the adequacy and metabolism of multiple nutrients working in concert with each other for the maintenance of optimal health.

**Clearances:** None

**Program/department goals addressed by course:** The learning outcomes below contribute to meeting the goals of the Didactic Program in Dietetics (DPD) required for accreditation: namely, to deliver a high quality DPD that focuses on practitioner foundation knowledge and skills, and to deliver a program that supports students' progress and fosters their professional development.

Upon completion of the course, the student will be able to:

- critically analyze selected current literature with respect to a research question as well as a way to supplement textbook knowledge.
- define the role that micronutrients play in carbohydrate and lipid metabolism degradation; and the metabolism of each micronutrient itself.
- describe the individual and interactive roles that select vitamins and minerals play as modulators of protein expression and function.

- describe the inter-organ metabolism (e.g. gut and liver; liver and kidney) of nutrients and impact of each organ on nutrient requirement.
- connect clinical symptoms for a nutrient deficiency with biochemical function of the nutrients.

**Date of Departmental Approval:** May 1, 2012.

Effective Date: Fall 2012.

#### **SECTION A-V: CHANGES IN EXISTING COURSES**

#### **Department of Health and Nutrition Sciences**

Change in hours and credits

#### From:

### **#3210 Nutritional Chemistry**

4 hours; 4 credits

Biochemistry of carbohydrates, lipids, proteins, inorganic salts, enzymes, vitamins, hormones. Bioenergetics and oxidation reactions. Pathways of intermediary metabolism. (Not open to students who are enrolled in or have completed Health and Nutrition Sciences 54 or Chemistry 4580.)

Prerequisite: Health and Nutrition Sciences 2210 and Chemistry \*2500 or 3510.

#### To:

## #3210 Nutritional Chemistry

3 hours; 3 credits

Biochemistry of carbohydrates, lipids, proteins, inorganic salts, enzymes, vitamins, hormones. Bioenergetics and oxidation reactions. Pathways of intermediary metabolism. (Not open to students who are enrolled in or have completed Health and Nutrition Sciences 54 or Chemistry 2580.)

Prerequisite: Health and Nutrition Sciences 2210 and Chemistry \*2500 or 3510.

**Rationale:** Accredited nutrition programs in the United States have an unusually large number of required courses in order to meet the learning outcomes set by the accrediting body. A review of 46 programs across the country revealed that 98% had 3-credit introductory nutrition courses. Non-fieldwork courses should be standardized to provide 3-credits, and courses with fieldwork will provide additional credits to cover that component of the course.

Date of Departmental Approval: May 1, 2012.

Effective Date: Fall 2012.

#### **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 Fall 2012

**BIOL 5020 Special Topics:** Behavioral Neuroendocrinology

(Cross-listed with Department of Psychology)

CHIN 3910 Special Topics: Poetry Translation

PSYC 4690 Special Topics in Biopsychology: Behavioral Neuroendocrinology

(Cross-listed with Department of Biology)