COMMITTEE ON INSTRUCTION AND CURRICULUM

15-16 CIC 29
Monday, February 15, 2016

TO: The Academic Senate
FROM: The Committee on Instruction and Curriculum (CIC)
SUBJECT: 15-16 CIC 29: Health Science request for a revision of the Pre-Clinical Preparation Option, B.S.

PURPOSE: Action by the Senate

ACTION REQUESTED: That the Academic Senate review and approve the Health Science request for a revision of the Pre-Clinical Preparation Option, B.S., with Presidential approval, effective in the next possible Catalog, as determined by Academic Programs and Graduate Studies.

BACKGROUND INFORMATION:
At CIC’s February 15, 2016 meeting the committee considered a request from the Department of Nursing and Health Sciences to revise the B.S. Health Science, Pre-Clinical Preparation Option. The Health Sciences program is undergoing a major revision as the University moves to semesters and the request was effectively to allow the Catalog to reflect the courses that will be offered under semesters that students will need to graduate. That is to say, the semester curriculum does not align well with the quarter-based requirements. The Committee appreciated the efforts of the Health Sciences faculty to ease their students’ transitions to semesters and unanimously recommended waiving the 14-15 CIC 21 moratorium and approval of the revisions to the program.

Date Submitted to APGS: 1/28/2016

1. Department: Health Sciences

2. Full and exact title of program, with name of major for options [Copy from current university catalog]:

    Health Sciences, Pre-Clinical Preparation Option, B.S.

3. Purpose of the Proposed Revision: [Why does this Option or Minor need to be revised? Will there be any effect on the other programs in your department as a result of the revision of this Option or Minor?]

   The option is being revised for two reasons. First, the current option contains sub-options that cannot be coded in Peoplesoft and makes DAR difficult or impossible without manual coding. This revision will address this issue. Second, the revised option courses match requirements for semester conversion and are equivalent to required courses in Fall 2018. This will prepare students and make the transition easier in Fall 2018.

4. List of all program requirements including prerequisites and courses. A comparison of the existing and proposed portions of the program must be provided. This should be done by copying and pasting the existing catalog section(s) and revising by indicating deleted text using strikethrough (deleted text), and added text using underline (added text). For sections that are heavily revised, strikethrough the entire pertinent text section (text) and enter the new text underneath indicated by underline. Total required units in both old and new programs must be included even if there is no change.

   Major Requirements (B.S.)

   The major in Health Sciences consists of 115-126 units; the B.S. degree requires a total of 180 units.

   Note:

   A grade of ‘C’ or better is required in each course with an HSC prefix. All Upper and Lower Division Core courses must be taken for a letter grade. Credit/No Credit is not accepted.

   The following Lower Division and Upper Division Core must be completed for the following options only: Administration and Management Option, Pre-Clinical Preparation Option with a Pre-Nursing Specialization or Pre-Health Specialization, and the Community Health Option. (Please Note: The Option in Pre-Clinical Preparation with a Pre-Doctoral Specialization and the Option in Environmental Health and Safety each have their own list of Lower Division and Upper Division Core courses). In addition, all HSC courses with 3000 and 4000 prefixes must be taken at CSU East Bay.

   I. Lower Division Core (45-47 units)
• **ANTH 1000 - Introduction to Anthropology** *Units: 4*
  or **SOC 1000** *(4)*
  or **SOC 1002** *(4)*

• **BIOL 1001 - Introduction to Biology** *Units: 4*
  or **BIOL 1005** *(4)*
  or **BIOL 1002** *(4)* or **BIOL 1004** *(4)* or **BIOL 2005** *(1)*

• **BIOL 2010 - Human Physiology and Anatomy I** *Units: 5*
  or **BIOL 2011** *(5)*

• **BIOL 2020 - Human Physiology and Anatomy II** *Units: 5*
  or **BIOL 2025 - Introduction to Microbiology** *Units: 5*
  or **BIOL 3405** *(6)*
  or **BIOL 4010** *(4)*

• **HSC 1000 - Introduction to Health Professions Practice** *Units: 4*

• **HSC 1100 - Health: Maintenance of Wellness** *Units: 4*

• **NURS 2010 - Principles of Nutrition and Medical Nutrition Therapy** *Units: 4*
  or **BIOL 3070** *(4)*

• **PSYC 1000 - General Psychology** *Units: 5*
  or **PSYC 1001** *(5)*
  or **PSYC 1005** *(5)*

• **STAT 1000 - Elements of Probability and Statistics** *Units: 5*

II. **Upper Division Core (43)**

• **ANTH 3720 - Medical Anthropology** *Units: 4*
  or **SOC 4720** *(4)*

• **HSC 3200 - Environmental Health** *Units: 4*

• **HSC 3300 - Health Care Systems in the U.S.** *Units: 4*

• **HSC 3350 - Health Legislation and Government Programs** *Units: 4*

• **HSC 3400 - Community Health** *Units: 4*

• **HSC 3550 - Health Care Law and Ethics** *Units: 4*

• **HSC 3800 - Multicultural Issues in Health Care** *Units: 4*

• **HSC 4010 - Research and Program Evaluation in Health Science** *Units: 4*

• **HSC 4500 - Supervised Field Training and Report Writing** *Units: 3*

• **HSC 4600 - Health Systems Management** *Units: 4*

• **HSC 4700 - Senior Seminar** *Units: 4*

III. **Options (36-65 units)**

Select one of the four options in consultation with your faculty advisor. The choice of option should reflect your career goals and a willingness to acquire an in-depth knowledge of one area of the Health Sciences major.

**Note:**

Non-Health Sciences option courses may have prerequisites. Include these prerequisites in your academic planning.

**Pre-Clinical Preparation Option (36-65 units)**

1. **Pre-Nursing Specialization (36 units)**

*See Lower Division Core and Upper Division Core as outlined above in sections I and II.*

**Complete the following course:**

• **HSC 2200 - Research and Writing in Health Care** *Units: 4*
The following classes will help prepare you for a career in nursing. Select 32 additional units with the approval of your faculty advisor.

- **CHEM 1610 - Survey of Basic Chemistry for Health Sciences** Units: 6
- **CHEM 3400 - Introductory Biochemistry** Units: 4
- **COMM 1000 - Public Speaking** Units: 4
- **COMM 1004 - Interpersonal Communication** Units: 4
- **HIST 4710 - History and Trends in Nursing** Units: 4
- **HDEV 3800 - Human Development and Interaction** Units: 4
- **PSYC 4420 - Developmental Psychology** Units: 4
- **NURS 2005 - Clinical Pathophysiology** Units: 4
- **PSYC 3420 - Stress and Coping** Units: 4
- **PSYC 3500 - Social Psychology** Units: 4
- **or**
- **PSYC 3520 - Interpersonal Processes** Units: 4

2. **Pre-Health Specialization (36 units)**

Complete the following course:

- **HSC 2200 - Research and Writing in Health Care** Units: 4

**Note:**

Select 32 additional units in preparation for programs in nutrition, occupational therapy, respiratory therapy, dental hygiene, physical therapy, genetic counseling, or social work. Suggested courses depend on career choice. Courses will be chosen from physical, life, and social sciences, and arts and humanities in consultation with your faculty advisor.

3. **Pre-Doctoral Specialization (65 units for the option; 120 units for the major.)**

*Please Note: The Pre-Doctoral Specialization has its own separate Lower Division and Upper Division courses, as listed below.*

**a. Lower Division Core (4 units)**

- **HSC 2200 - Research and Writing in Health Care** Units: 4

**Note:**

In preparation for programs in medicine, dentistry, pharmacy, optometry or veterinary science, in addition to your faculty advisor, please also consult and register with the Pre-Professional Health Academic Program (PHAP) Advisor. See PHAP website (www.sci.csueastbay.edu/PHAP) for the recommended course list which includes the following basic science foundation courses.

**b. Upper Division Core (51 units)**
• STAT 3031 - Statistical Methods in Biology Units: 4
• BIOL 3070 - Human Nutrition Units: 4

or
• ANTH 3720 - Medical Anthropology Units: 4
• SOC 4720 - Medical Sociology Units: 4

• HSC 3200 - Environmental Health Units: 4
• HSC 3300 - Health Care Systems in the U.S. Units: 4
• HSC 3350 - Health Legislation and Government Programs Units: 4
• HSC 3400 - Community Health Units: 4
• HSC 3550 - Health Care Law and Ethics Units: 4
• HSC 3800 - Multicultural Issues in Health Care Units: 4
• HSC 4010 - Research and Program Evaluation in Health Science Units: 4
• HSC 4500 - Supervised Field Training and Report Writing Units: 4
• HSC 4600 - Health Systems Management Units: 4
• HSC 4700 - Senior Seminar Units: 4

C. Option Courses (65 units)

• BIOL 1401 - Molecular and Cellular Biology Units: 5
• BIOL 1402 - Plant Biology Units: 5
• BIOL 1403 - Animal Biology Units: 5
• CHEM 1101 - General Chemistry Units: 5
• CHEM 1102 - General Chemistry Units: 5
• CHEM 1103 - General Chemistry Units: 5
• CHEM 3301 - Organic Chemistry Units: 5
• CHEM 3302 - Organic Chemistry Units: 5
• CHEM 3303 - Organic Chemistry Units: 5
• PHYS 2701 - Introductory Physics: Force, Mass and Motion Units: 4
• PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism Units: 4
• PHYS 2703 - Introductory Physics: Light and Modern Physics Units: 4
• MATH 1304 - Calculus I Units: 4
• BIOL 3065 - Humans and Sex Units: 4

Note:
The following courses are not required for the health science major but are recommended additional preparation for biomedical careers. As different biomedical careers have different course recommendations, students need to consult with a prehealth professions adviser (preprof@csueastbay.edu) before choosing any of these courses.

Advanced Science Courses (40 units)

• BIOL 3121 - Principles of Genetics Units: 5
• BIOL 3122 - Principles of Developmental Genetic Analysis Units: 4
• BIOL 3151 - Principles of Animal Physiology Units: 5
• BIOL 3405 - Microbiology Units: 6
• BIOL 4510 - Neurobiology Units: 4
• CHEM 4411 - General Biochemistry Units: 4
• CHEM 4412 - General Biochemistry Units: 4
• CHEM 4413 - General Biochemistry Units: 4
• MATH 1305 - Calculus II Units: 4
Major Requirements (B.S.)

The major in Health Sciences consists of 115-126 units; the B.S. degree requires a total of 180 units.

Note:

A grade of ‘C’ or better is required in each course with an HSC prefix. All Upper and Lower Division Core courses must be taken for a letter grade. Credit/No Credit is not accepted.

The following Lower Division and Upper Division Core must be completed for the following options only: Administration and Management Option, Pre-Clinical Preparation Option with a Pre-Nursing Specialization or Pre-Health Specialization, and the Community Health Option. (Please Note: The Option in Pre-Clinical Preparation with a Pre-Doctoral Specialization and the Option in Environmental Health and Safety each have their own list of Lower Division and Upper Division Core courses). In addition, all HSC courses with 3000 and 4000 prefixes must be taken at CSU East Bay.

I. Lower Division Core (40-42 units)

ANTH 1000 - Introduction to Anthropology Units: 4
or SOC 1000 (4)
or SOC 1002 (4)
BIOL 2010 - Human Physiology and Anatomy I Units: 5
or BIOL 2011 (5)
BIOL 2020 - Human Physiology and Anatomy II Units: 5
or BIOL 3405 (6)
or BIOL 4010 (4)
HSC 1000 - Introduction to Health Professions Practice Units: 4
HSC 1100 - Health: Maintenance of Wellness Units: 4
NURS 2010 - Principles of Nutrition and Medical Nutrition Therapy Units: 4
or BIOL 3070 (4)
PSYC 1000 - General Psychology Units: 5
or PSYC 1001 (5)
or PSYC 1005 (5)
STAT 1000 - Elements of Probability and Statistics Units: 5

II. Upper Division Core (43)

ANTH 3720 - Medical Anthropology Units: 4
or SOC 4720 (4)
HSC 3200 - Environmental Health Units: 4
HSC 3300 - Health Care Systems in the U.S. Units: 4
HSC 3350 - Health Legislation and Government Programs Units: 4
HSC 3400 - Community Health Units: 4
HSC 3550 - Health Care Law and Ethics Units: 4
HSC 3800 - Multicultural Issues in Health Care Units: 4
HSC 4010 - Research and Program Evaluation in Health Science Units: 4
HSC 4500 - Supervised Field Training and Report Writing Units: 3
HSC 4600 - Health Systems Management Units: 4
HSC 4700 - Senior Seminar Units: 4

III. Options (36-65 units)

Select one of the four options in consultation with your faculty advisor. The choice of option should reflect your career goals and a willingness to acquire an in-depth knowledge of one area of the Health Sciences major.

Note:

Non-Health Sciences option courses may have prerequisites. Include these prerequisites in your academic planning.

**Pre-Clinical Preparation Option (39 units)**

See Lower Division Core and Upper Division Core as outlined above in sections I and II.

The courses below are designed to prepare students generally to enter a clinical program such as nursing, physician assistant, and various technical programs. Some programs may require different courses for entry. Working with an advisor students may elect to complete a different pre-clinical preparation plan with different courses. To do so, students must:

1. Propose a plan of courses, and
2. Have the plan approved by an advisor.

The Health Sciences program may not accept courses for credit taken before a plan is approved by an advisor.

Students interested in medical or dental school must meet with an advisor to design an alternate set of courses.

Students who do not propose an alternate set of courses must complete the following courses:

- HSC 2200 - Research and Writing in Health Care Units: 4
- CHEM 1101 - General Chemistry. Units: 5
- CHEM 1102 – General Chemistry. Units 5
- CHEM 1103 – General Chemistry. Units 5
- CHEM 2301 – Survey of Organic Chemistry. Units 4
- CHEM 2302 – Survey of Organic Chemistry. Units 4
- PHYS 2701 - Introductory Physics: Force, Mass and Motion. Units 4
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism. Units 4
- PHYS 2703 - Introductory Physics: Light and Modern Physics. Units 4

| Total Units for Minor, or Major if modifying an Option | 122-124 |

5. **Effects**, if any, on the department’s Program Learning Outcomes. [Will the revision of this option or minor result in any changes to your department’s Program Learning Outcomes?]

  None
6. List of **New Course, Course Modification, and Course Discontinuance Requests**, if any, submitted along with this proposal (Be sure to include all such course proposals and list in the following format, “ABCD 1234, Introduction to Curriculum (4) – New”):

<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
<th>New/Modified/Discontinued</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NONE

7. If modifying an option, is this major approved as a “similar” degree under the STAR Act (SB 1440)? Yes No

If yes, explain how this modification will affect the “similar” degree agreement.

No.

8. **RESOURCE IMPLICATIONS** of the proposed revision, if any: [Include the need for student fees and other resources such as faculty, facilities, equipment, and library that will not be covered by the department budget. List all resources needed for the first five years beyond those currently projected, including specific resources, cost, and source of funding.]

None.

9. Relationship of Revised Program to requirements for teaching credentials, accreditation and/or licensing, if any:

None.

10. **CONSULTATION** with other affected departments and program committee:

a) The following department(s) has (have) been consulted and raise no objections:

All affected academic departments and programs at CSUEB were consulted including Physics, Biology and Chemistry and there were no objections.

b) The following department(s) has (have) been consulted and raised concerns:

11. Certification of **DEPARTMENT APPROVAL** by the chair and faculty.

Chair: ___________Jason Smith______________________________ Date: 1/25/2016

[Print Department chair’s name here. Chair shall sign a hard copy for the College Office files.]

12. Certification of **COLLEGE APPROVAL** by the dean and college curriculum committee.

Dean/Associate Dean: ___________Jason Singley______________________________ Date: 1/29/2016

[Print Dean or Associate Dean’s name here. A hard copy shall be signed for the College Office files.]