College of Liberal Arts and Sciences
Committee on Curricula and Courses

Departmental Proposals for the meeting of 12 September 2006

3:30 PM in Room 162 of the Dodd Research Center

2006 - 78 Proposal to Change the Coastal Studies Major
1. Date: 8 February 2006
2. Department requesting this change: Marine Sciences
3. Title of Major: Coastal Studies
4. Nature of Change: BA to require a full year of chemistry, change in structure of social science courses used as related area

5. **Existing catalog Description** of the Major:
Bachelor of Science in Coastal Studies: The B.S. in Coastal Studies requires a foundation of courses including 28 credits of Marine Science courses, and 12 credits of defined social science courses constituting the Related Area. Coastal Studies majors must pass the following courses.
I. 100's Level: BIOL 107, 108; CHEM 127Q-128Q; MATH 115Q, 116Q; PHYS 131Q, 132Q; MARN 170
Coastal Studies requires a course in data analysis and interpretation. This requirement may be fulfilled with STAT 110Q or another course approved by the Department. Students are encouraged to choose: Either SCI 240 or HIST 206; and either ECON 112 or ARE 150
II. Coastal Studies B.S. Major Requirements
The following courses constitute the major requirements: MARN 210, 211, 212C, 220Q, 255W, 256, and 3 electives. The electives must represent different areas of Marine Sciences. At least one course must be chosen from each of the following groups:
Group 1: MARN 230, 270;
Group 2: MARN 236, 282, 294, 241, 242;
Group 3: MARN 236, 282, 275, 280, 325.
Note: however, that only one of MARN 236 and 282 may be counted as an elective. It can satisfy either the Group 2 or 3 requirement, but not both.
III. Coastal Studies B.S. Related Area
In consultation with their faculty advisor, students choose Related Area courses appropriate to their interests, one from each of four subject areas: Environmental Policy, Economic Development, Law and Regulation, and Coastal Issues. The department maintains a list of courses acceptable for each subject area.

Bachelor of Arts in Coastal Studies: The B.A. in Coastal Studies requires a foundation of courses including 25 credits of Marine Science courses, and 18 credits of defined social science courses constituting the Related Area.
The B.A. plan of study allows interested students to take additional social science courses. Coastal Studies majors must pass the following courses.
I. 100's Level: BIOL 107, 108; CHEM 127Q-128Q or CHEM 122 and GEOL 102; MATH 109Q, 118Q; PHYS 121Q, 122Q; MARN 170
Coastal Studies requires a course in data analysis and interpretation. This requirement may be fulfilled with STAT 110Q or another approved course. Students are encouraged to fulfill some of their General Education requirements with the following choices: Either SCI 240 or HIST 206; and either ECON 112 or ARE 150.
II. Coastal Studies B.A. Major Requirements
The following courses constitute the major requirements: MARN 210, 211, 212C, 255W, 256, and 3 electives The electives are: MARN 220Q, 230, 236 or 282, 241, 242,270, 275, 280, 294, 325

III. Coastal Studies B.A. Related Area

In consultation with their faculty advisor, students choose Related Area courses appropriate to their interests, one from each of four subject areas, plus two additional courses from any of the following areas: Environmental Policy, Economic Development, Law and Regulation, Coastal Issues. The department maintains a list of courses acceptable for each subject area.

Competency Requirements (B.S. and B.A. programs)
The University's competency requirements for computer technology and information literacy will be satisfied by completing the major requirements above, in particularMARN 210, 211, 212C for computer technology, and 211, 255W and 256 for information literacy. The writing in the major requirement will be satisfied by MARN 255W.

Note: Some Marine Sciences courses may only be offered at the Avery Point campus. Please check the Directory of Courses in this *Catalog.*

Both a minor in **Marine Biology** and a minor in **Oceanography** are described in the ***Minors*** section.

6. **Proposed catalog Description** of the Major:
Bachelor of Science in Coastal Studies:
The B.S. in Coastal Studies requires a foundation of courses including 28 credits of Marine Science courses, and 12 credits of defined social science courses constituting the Related Area. Coastal Studies majors must pass the following courses.
I. 100's Level: BIOL 107, 108; CHEM 127Q-128Q or CHEM124Q, 125Q and 126Q; MATH 115Q, 116Q or MATH112Q, 113Q and 114Q; PHYS 131Q, 132Q or PHYS 121Q, 122Q and 123Q; MARN 170 or 171
Coastal Studies requires a course in data analysis and interpretation. This requirement may be fulfilled with STAT110Q or another course approved by the Department. Students are encouraged to fulfil some of their General Education requirements with the following choices:
HIST 206/SCI206; and either ECON 112 or ARE 150
II. Coastal Studies B.S. Major Requirements
The following courses constitute the major requirements: MARN 210, 211, 212C, 220Q, 255W, 256, and 3 electives. The electives must represent different areas of Marine Sciences. At least one course must be chosen from each of the following groups:
Group 1: MARN 230, 270;
Group 2: MARN 236, 282, 294, 241, 242;
Group 3: MARN 236, 282, 275, 280.
Note: only one of MARN 236 and 282 may be counted as an elective. It can satisfy either the Group 2 or 3 requirement, but not both.
III. Coastal Studies B.S. Related Area
In consultation with their faculty advisor and a social science faculty member, students choose Related Area courses appropriate to their interests. The department maintains a list of courses acceptable for this requirement.

Bachelor of Arts in Coastal Studies: The B.A. in Coastal Studies requires a foundation of courses including 25 credits of Marine Science courses, and 18 credits of defined social science courses constituting the Related Area.
The B.A. plan of study allows interested students to take additional social science courses. Coastal Studies majors must pass the following courses.
I. 100's Level: BIOL 107, 108; CHEM 127Q, 128Q or CHEM 124Q,125Q and 126Q;; MATH 109Q and 118Q or 106Q, or MATH112Q and 113Q; PHYS 121Q, 122Q;MARN 170 or 171
Coastal Studies requires a course in data analysis and interpretation. This requirement may be fulfilled with STAT110Q or another approved course. Students are encouraged to fulfil some of their General Education requirements with the following choices: HIST 206/SCI206; and either ECON 112 or ARE 150.

II. Coastal Studies B.A. Major Requirements
The following courses constitute the major requirements: MARN 210, 211, 212C, 255W, 256, and 3 electives. The electives are: MARN 220Q, 230, 236 or 282, 241, 242,270, 275, 280, 294.
III. Coastal Studies B.A. Related Area

In consultation with their faculty advisor and a social science faculty member, students choose Related Area courses appropriate to their interests. The department maintains a list of acceptable courses .

Competency Requirements (B.S. and B.A. programs)
The University's General Education competency requirements for computer technology and information literacy will be satisfied by completing the major requirements above, in particular MARN 210, 211, 212C for computer technology, and 211, 255W and 256 for information literacy. The writing in the major requirement will be satisfied by MARN 255W.
Note: Some Marine Sciences courses may be offered only at the Avery Point campus. Others may be partially available through Distance Learning. Please check the Directory of Courses in this *Catalog.*
Both a minor in **Marine Biology** and a minor in **Oceanography** are described in the ***Minors*** section.

7. Effective Date: ASAP

Justification
1. Why is a change required?
a) There are more course options for required 100 level science courses than listed earlier. For example MARN171 (MARN170 including a lab) is now an approved course.
b) One semester of CHEM122 did not provide students with sufficient background for upper division core classes
c) Detailed categories for social sciences courses (taken as the related area in this major) were too restrictive and inflexible.
2. What is the impact on students?
a) Bachelor of Arts students will now need to take a full chemistry series (CHEM127-128) or CHEM124-126
b) There will be more flexibility in choosing the social sciences courses for the related area, so students will be able to tailor their curriculum to their individual interests
3. What is the impact on regional campuses? Enrollment in CHEM127 and 128 may grow slightly, but only by a few students. There may be slight more or less balance in enrollment in the various social science courses, it is impossible to predict.
4. Dates approved by Department Curriculum Committee: 7 February 2006
Department Faculty: 7 April 2006
5. Name, Phone Number, and e-mail address of principal contact person:
Dr. Annelie Skoog
860-405-9220
Annelie.Skoog@uconn.edu

2006 - 79 Proposal to Change PSYC 309

1. Date: December 12, 2005
2. Department: Psychology
3. Nature of Proposed Change: Addition of prerequisites and change in description to include prerequisites.

4. **Current** Catalog Copy: **PSYC 309. Health Psychology**

3 credits. Lecture.

Interaction of biological, psychological, and social factors in health. Topics include disease prevention and health promotion, psychosocial factors in treatment of illness, and stress and coping processes.

5. Proposed Catalog Copy**: PSYC 309. Health Psychology**

3 credits. Lecture. Prerequisite PSYC 303, PSYC 313, PSYC 325, PSYC 336, PSYC 348, PSYC 367, or consent of the instructor.

Interaction of biological, psychological, and social factors in health. Topics include disease prevention and health promotion, psychosocial factors in treatment of illness, and stress and coping processes.

6. Effective Date: Fall semester 2006

Justification

1. Reasons for changing this course.

Prerequisite change: The department is preparing a certificate program in health psychology and this course is the foundational course for the certificate. To better reflect the needed background in psychology for this course, the prerequisites have been modified.
Description change: None.
2. Effect on Department's Curriculum: none
3. Other Departments Consulted: none
4. Effects on Other Departments: none
5. Effects on Regional Campuses: none
6. Staffing: Psychology faculty. No changes from present.

7. Dates approved by: C&C committee: 12/12/05
8. Name, Phone Number, and e-mail address of principal contact person:
   (a) Crystal Park, Course Instructor, 486-3520
   (b) John Rickards, Chair, PSYC C&C committee, 486-2501

2006 - 80 Proposal to Change MARN 296

1. Date: April12, 2006
2. Department: **Marine Sciences**
3. Nature of Proposed Change: change number of credits for existing course
4. Current Catalog Copy:

296. Variable Topics
Either semester. Three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

5. Proposed Catalog Copy:

296. Variable Topics
Either semester. One to three credits. With a change in topic, may be repeated for credit. Prerequisites and recommended preparation vary.

6. Effective Date (semester, year -- see Note R):
   (Note that changes will be effective immediately unless a specific date is requested.)

Justification

1. Reasons for changing this course: The change will allow more flexibility in the range of the course offerings
2. Effect on Department's Curriculum: more flexibility in curriculum for students and instructors
3. Other Departments Consulted (see Note N): none
4. Effects on Other Departments: none
5. Effects on Regional Campuses: expand curriculum offerings at Avery Point
6. Staffing: will be taught with existing staff
7. Dates approved by (see Note Q):
   Department Curriculum Committee: May 4, 2006
   Department Faculty: May 5, 2006
8. Name, Phone Number, and e-mail address of principal contact person:

Annelie Skoog (860) 405-9220, annelie.skoog@uconn.edu

2006 - 81 Proposal to Add MARN 295W

1. Date: 12 April 2006
2. Department requesting this course: **Marine Sciences**
3. Semester and year in which course will be first offered: Spring 2007

Final catalog Listing

MARN 295W: Senior Research Thesis

Either semester. Three credits. Hours by arrangement. Prerequisite: Three credits of MARN 299, which may be taken concurrently. Recommended preparation: MARN 255W. Open only with consent of instructor. Not limited to honors students.

A "W" course for students writing a senior thesis on their independent research.

Items included in catalog Listing:

Obligatory Items

1. Standard abbreviation for Department or Program (see Note O):
2. Course Number (see Note B):
   If using a specific number (e.g. "254" instead of "2XX"), have you checked with the Registrar that this number is available for use? __ Yes _X_ No
3. Course Title:
4. Semester offered (see Note C):
5. Number of Credits (see Note D):
6. Course description (second paragraph of catalog entry -- see Note K):

Optional Items

7. Number of Class Periods, if not standard (see Note E):
8. Prerequisites, if applicable (see Note F):
9. Recommended Preparation, if applicable (see Note G):
10. Consent of Instructor, if applicable (see Note T)
11. Exclusions, if applicable (see Note H):
12. Repetition for credit, if applicable (see Note I):
13. Instructor(s) names if they will appear in catalog copy (see Note J):
14. Open to Sophomores (see Note U):
15. Skill Codes "W", "Q", or "C" (see Note T):
16. S/U grading (see Note W):

Justification

1. Reasons for adding this course: (see Note L) This course is necessary for Marine Sciences to implement an opportunity for Coastal Studies majors to graduate as Honors Scholars.

2. Academic Merit (see Note L): This course will allow both honors and non-honors students to get academic credit for writing a paper based on their independent research (MARN 299).

3. Overlapping Courses (see Note M): none

4. Number of Students Expected: 2-3 per year

5. Number and Size of Section: N/A

6. Effects on Other Departments (see Note N): none

7. Effects on Regional Campuses: This course will complement the Honors Scholars Program being developed at Avery Point for other majors.

8. Staffing (see Note P): existing Marine Sciences faculty

9. Dates approved by (see Note Q):
   Department Curriculum Committee: May 4, 2006

Department Faculty: May 5, 2006

10. Name, Phone Number, and e-mail address of principal contact person:

Pat Kremer (860) 405-9140, patricia.kremer@uconn.edu

2006 - 82 Proposal to Add MARN 333
1. Date: May5, 2006

2. Department requesting this course: **Marine Sciences**

3. Semester and year in which course will be first offered: Fall 2006

Final Catalog Listing:

MARN 333: Plankton Ecology. First Semester. 3 credits. Class Periods: Three (Two 50 min lectures and one 3h lab/recitation period). Recommended preparation: The equivalent of one year of biology, chemistry and physics course. Consents/Exclusions: Consent of instructor for graduate students in lieu of recommended preparation. Students who have taken both MARN 331 and MARN 332 cannot take this course for credit. Dam.

Ecology of planktonic organisms (bacteria, protista and metazoa). The evolutionary ecology concept, methods of research, special features of aquatic habitats; adaptations to aquatic environments; population biology; predation, competition, life histories, community structure, and role of plankton in ecosystem metabolism.

Items included in catalog Listing:

Obligatory Items
1. Four-letter abbreviation for Department or Program : MARN

2. Course Number : 333

3. Course Title: Plankton ecology

4. Semester offered : First semester

5. Number of Credits : 3

6. Course description (second paragraph of catalog entry):
Ecology of planktonic organisms (bacteria, protista and metazoa). The evolutionary ecology concept, methods of research, special features of aquatic habitats; adaptations to aquatic environments; population biology; predation, competition, life histories, community structure, and role of plankton in ecosystem metabolism.

Optional Items

7. Number of Class Periods: Three (Two 50 min lectures and one 3h lab/recitation period).

8. Prerequisites: None

9. Recommended Preparation: The equivalent of one year of biology, chemistry and physics course.

10. Consents/Exclusions: Consent of instructor for graduate students in lieu of recommended requirements. Students who have taken both MARN 331 and MARN 332 cannot take this course for credit.

11. Repetition for credit, if applicable : not applicable

12. Instructor(s) names if they will appear in catalog copy : Dam

JUSTIFICATION

1. Reasons for Adding this Course: I was asked by the Department Head in consultation with the coordinator of the Coastal Studies Major to develop a plankton ecology course that could serve the needs of the undergraduate students, particularly those in the Coastal Studies Major. The course is intended as an elective for the Coastal Studies Majors. However, some graduate students in the Dept. Marine Sciences may also choose to take this course instead of the more specialized courses in phytoplankton and zooplankton ecology. Graduate students do additional work in the form of readings from the primary literature, and recitation/lab report requirements. Because of maturity level, grading is also different for graduate students. That is, examinations are different for the graduate students.

2. Academic Merit: Planktonic organisms overwhelmingly dominate the biology of lakes and oceans. This course, along with other advanced courses (Marine Biogeochemistry, Marine Phytoplankton Ecology and Physiology, Marine Microbiology, and Marine Zooplankton), partly provides the foundation for understanding pelagic processes. However, this is the only course that covers all plankton groups and emphasizes classical ecological theory at the same time. Hence, this course is an enhancement to the curriculum of the university.

3. Overlapping Courses: There is some overlap with material covered in MARN 380/260 (2 lectures), MARN 331(probably five lectures) and MARN 332 (probably five lectures). Please note that while the course's textbook is titled Limnoecology, the material in the book and in the course is entirely different from the typical limnology course (e.g., EEB 237 and EEB 247).

4. Number of Students Expected: Less than 10

5. Number and Size Section: 1 section, 1-10 students.

6. Effects on Other Departments: None.

7. Effects on regional campuses: None

8. Staffing: One instructor (Dam) and T.A. assistance for lab/recitation.

9. Dates approved by:
Department Curriculum Committee: May 4, 2006
Department Faculty: May 5, 2006

10. Name, phone number, and e-mail address of principal contact person:
Hans G. Dam, (860) 405-9098, hans.dam@uconn.edu

2006 - 83 Proposal to Add MARN 267
. Date: May 5, 2006

2. Department requesting this course: **Marine Sciences**

3. Semester and year in which course will be first offered: Fall 2006

Final Catalog Listing:

MARN 267: Plankton Ecology. First Semester. Three credits. Class Periods: Three (Two 50 min lectures and one 3h lab/recitation period). Prerequisites: MATH 109Q or MATH 115, PHYS 121Q or PHYS 131Q, CHEM 122 or equivalent, BIO 107/108. Recommended preparation: MARN 170. Consents/Exclusions: Consent of instructor for graduate students in lieu of requirements. Students who have taken both MARN 331 and MARN 332 cannot take this course for credit. Dam.

Ecology of planktonic organisms (bacteria, protista and metazoa). The evolutionary ecology concept, methods of research, special features of aquatic habitats; adaptations to aquatic environments; population biology; predation, competition, life histories, community structure, and role of plankton in ecosystem metabolism.

Items included in catalog Listing:

Obligatory Items
1. Four-letter abbreviation for Department or Program : MARN

2. Course Number : 267

3. Course Title: Plankton ecology

4. Semester offered : First semester

5. Number of Credits : 3

6. Course description (second paragraph of catalog entry):
Ecology of planktonic organisms (bacteria, protista and metazoa). The evolutionary ecology concept, methods of research, special features of aquatic habitats; adaptations to aquatic environments; population biology; predation, competition, life histories, community structure, and role of plankton in ecosystem metabolism.

Optional Items

7. Number of Class Periods: Three (Two 50 min lectures and one 3h lab/recitation period).

8. Prerequisites: MATH 109Q or MATH 115, PHYS 121Q or PHYS 131Q, CHEM 122 or equivalent, BIO 107/108.

9. Recommended Preparation: MARN 170

10. Consents/Exclusions: Students who have taken both MARN 331 and MARN 332 cannot take this course for credit.

11. Repetition for credit, if applicable : not applicable

12. Instructor(s) names if they will appear in catalog copy : Dam

JUSTIFICATION

1. Reasons for Adding this Course: I was asked by the Department Head in consultation with the coordinator of the Coastal Studies Major to develop a plankton ecology course that could serve the needs of the undergraduate students, particularly those in the Coastal Studies Major. The course is intended as an elective for the Coastal Studies Majors, and has already been taught twice as MARN 298.

2. Academic Merit: Planktonic organisms overwhelmingly dominate the biology of lakes and oceans. This course, along with other advanced courses (Marine Biogeochemistry, Marine Phytoplankton Ecology and Physiology, Marine Microbiology, and Marine Zooplankton), partly provides the foundation for understanding pelagic processes. However, this is the only course that covers all plankton groups and emphasizes classical ecological theory at the same time. Hence, this course is an enhancement to the curriculum of the university.

3. Overlapping Courses: There is some overlap with material covered in MARN 380/260 (2 lectures), MARN 331(probably partial five lectures) and MARN 332 (probably five lectures).

4. Number of Students Expected: Less than 20

5. Number and Size Section: 1 section, 1-20 students.

6. Effects on Other Departments: None.

7. Effects on regional campuses:
This course was designed as an elective for Coastal Studies Majors, most of whom take classes at the Avery Point campus.

8. Staffing: One instructor (Dam) and T.A. assistance for lab/recitation.

9. Dates approved by:
Department Curriculum Committee: May 4, 2006
Department Faculty: May 5, 2006

10. Name, phone number, and e-mail address of principal contact person:
Hans G. Dam, (860) 405-9098, hans.dam@uconn.edu

2006 - 84 Proposal to Change MARN 212C

1. Date: 25 April 2006
2. Department: **Marine Sciences**
3. Nature of Proposed Change: change in wording of catalog description
4. Current Catalog Copy:

212C. Measurement and Analysis in Coastal Ecosystems
First semester (Avery Point). Four credits. Two 1-hour lectures and two 3-hour laboratories. Required field trips. Prerequisites: MARN 170 and any two (2) of the following:BIOL 107, 108; CHEM 127Q, 128Q; PHYS 121Q, 122Q, 131Q, 132Q. J. Kremer
Examination of oceanographic processes in local coastal systems; collection and analyses of samples from field trips and lab experiments; data analysis using computers.

5. Proposed Catalog Copy:

212C. Measurement and Analysis in Coastal Ecosystems
First semester (Avery Point). Four credits. Two 1-hour lectures and two 3-hour laboratories. Required field trips. Prerequisites: MARN 210 and MARN 211 or consent of instructor.
Examination of oceanographic processes in local coastal systems; collection and analyses of samples from field trips and lab experiments; data analysis using computers.

6. Effective Date (semester, year -- see Note R):
   (Note that changes will be effective immediately unless a specific date is requested.)

Justification

1. Reasons for changing this course: To remedy an error. Students should not enroll in this class until they have had two other Coastal Studies core classes. This is a small catalog change that will facilitate registration
2. Effect on Department's Curriculum: none
3. Other Departments Consulted (see Note N): no
4. Effects on Other Departments: none
5. Effects on Regional Campuses: none, as this course is already being taught at Avery Point (with the proposed description)
6. Staffing: Taught with existing staff
7. Dates approved by (see Note Q):
   Department Curriculum Committee: May 4, 2006
   Department Faculty: May 5, 2006
8. Name, Phone Number, and e-mail address of principal contact person:

Dr. Annelie Skoog
860-405-9220
annelie.skoog@uconn.edu

2006 - 85 Proposal to Change PNB 264-265

1.Date: May 5, 2006
2. Department: **Physiology & Neurobiology**
3. Nature of Proposed Change: Add Biol 107 as a pre-requisite for PNB 264-265, Human Physiology and Anatomy
4. **Current** Catalog Copy:
264-265. 264-265. Human Physiology and Anatomy (Copied from catalog)Both semesters. Four credits each semester. Three class periods and one 3-hour laboratory. Prerequisite: CHEM 122 or 124 or 127Q. Recommended preparation: BIOL 107, PHYS 101 or 122. Open to sophomores or higher. Not open to students who have passed PNB 274-275. These courses must be taken in sequence to obtain credit, and may not be counted toward the Biological Sciences or Physiology and Neurobiology majors. *Chapple, Kimball, Moiseff, Nishiyama, Rubio*

Fundamentals of human anatomy and physiology for students in medical technology, physical therapy, nursing and education (Sport Science). A fee of $20 is charged for each course.

5. **Proposed Catalog Copy**:
264-265 Human Physiology and Anatomy
Both semesters. Four credits each semester. Three class periods and one 3-hour laboratory. Prerequisite: BIOL 107, CHEM 122 or 124 or 127Q. Recommended preparation: BIOL 107, PHYS 101 or 122. Open to sophomores or higher. Not open to students who have passed PNB 274-275. These courses must be taken in sequence to obtain credit, and may not be counted toward the Biological Sciences or Physiology and Neurobiology majors. *Chapple, Kimball, Moiseff, Nishiyama, Rubio*

Fundamentals of human anatomy and physiology for students in medical technology, physical therapy, nursing and education (Sport Science). A fee of $20 is charged for each course.

6. Effective Date): Fall 2007
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Justification

1. Reasons for changing this course: The School of Nursing now requires BIOL 107 for its majors, and the programs in Allied Health that require PNB 264-265 (Physical Therapy) are planning to require BIOL 107 for their majors. Most other students have also taken BIOL 107. We have found that we cannot cover introductory material that is covered in BIOL 107 (molecular and cell biology, introductory physiology) and properly cover the necessary material in a Human Physiology and Anatomy course. Since PNB 264-265 is a service course for non-professional health personnel, the shift of elementary material to BIOL 107 will allow us to cover the necessary material.
We are also dropping the recommendation that students have PHYS 101 or 122 before taking PNB 264-265. Most student take PNB 264-265 in their sophomore year and do not take physics courses (if they do at all) until their junior or senior year.
2. Effect on Department's Curriculum: None
3. Other Departments Consulted (see Note N): School of Nursing, School of Allied Health
4. Effects on Other Departments: None
5. Effects on Regional Campuses: None
6. Staffing:
7. Dates approved by (see Note Q):
Department Curriculum Committee:

Department Faculty:

8. Name, Phone Number, and e-mail address of principal contact person: William Chapple, 6-4558, William.chapple@uconn.edu

2006 - 86 Proposal to Change PNB 274 - 275

1. Date: May 5, 2006
2. Department: **Physiology & Neurobiology**
3. Nature of Proposed Change: remove PHYS 101 or 122 as recommended preparation for PNB 274-275, Enhanced Human Physiology and Anatomy

4. **Current** Catalog Copy: PNB 274-275. Enhanced Human Physiology and Anatomy
Both semesters. Four credits each semester. Three class periods and one 3-hour laboratory. Prerequisite: BIOL 107, CHEM 124 or 127Q. Recommended preparation: PHYS 121, 131, or 141. Not open to students who have passed PNB 274-275. These courses must be taken in sequence to obtain credit. Open to sophomores or higher. *Crivello, Renfro*
Fundamentals of human physiology and anatomy enhanced through inquiry-based laboratories. A fee of $20 is charged for each course.

5. Proposed Catalog Copy: PNB 274-275. Enhanced Human Physiology and Anatomy
Both semesters. Four credits each semester. Three class periods and one 3-hour laboratory. Prerequisite: BIOL 107, CHEM 124 or 127Q. Not open to students who have passed PNB 274-275. These courses must be taken in sequence to obtain credit. Open to sophomores or higher. *Crivello, Renfro*
Fundamentals of human physiology and anatomy enhanced through inquiry-based laboratories. A fee of $20 is charged for each course.

6. Effective Date (semester, year -- see Note R): Fall 2007
(Note that changes will be effective immediately unless a specific date is requested.)

Justification

1. Reasons for changing this course:
We are dropping the recommendation that students have PHYS 121, 131 or 141 before taking PNB 274-275. Most student take PNB 274-275 in their sophomore year and do not take physics courses until their junior or senior year. Since they must complete the chemistry sequence including CHEM 243 and 244 before taking more advanced courses in PNB and MCB it is not realistic to expect them to have physics.

2. Effect on Department's Curriculum: None
3. Other Departments Consulted (see Note N): None
4. Effects on Other Departments: None
5. Effects on Regional Campuses: None
6. Staffing:

7. Dates approved by (see Note Q):
Department Curriculum Committee:
Department Faculty:

8. Name, Phone Number, and e-mail address of principal contact person: William Chapple, 6-4558, William.chapple@uconn.edu

2006 - 87 Proposal to Change PHYS 328 & 329
1. Date: 8/9/06
2. Department**: Physics**
3. Nature of Proposed Change: Change only the course descriptions of PHYS 328-9

4. Current Catalog Copy:

PHYS 328. Condensed Matter Physics I
3 credits. Lecture. Prerequisite: PHYS 323.
Crystal structure; lattice vibrations; electronic band structure of solids; transport theory; basic properties of metals, semi-conductors and insulators; magnetism; super-conductivity.

PHYS 329. Condensed Matter Physics II
3 credits. Lecture. Prerequisite: PHYS 328.
Crystal structure; lattice vibrations; electronic band structure of solids; transport theory; basic properties of metals, semi-conductors and insulators; magnetism; super-conductivity.

5. Proposed Catalog Copy:

PHYS 328. Condensed Matter Physics I
3 credits. Lecture. Prerequisite PHYS 323, or consent of the instructor.
Theory of metals, crystal structures, point and space groups, electrons in solids, band structure, conduction in metals, phonons, magnetism, elements of superconductivity, and other modern topics in condensed matter.

PHYS 329. Condensed Matter Physics II

3 credits. Lecture. Prerequisite PHYS 328.
Density functional theory, Green's functions, strongly correlated systems, Hubbard and Anderson models, itinerant and localized magnetism, quantum Hall effect, superconductivity, renormalization group theory, the theory of liquids and liquid crystals.

6. Effective Date : Immediately

Justification
1. Reasons for changing this course:
Two reasons:
a. To include "**or consent of the instructor."** so as to permit a larger segment of the student community to take the course;
b. modernize the list of topics to be included in the curriculum. For example "**Density functional theory, Green's functions, strongly correlated systems,"** is now recognized to be of current interest.

2. Effect on Department's Curriculum: None
3. Other Departments Consulted : None
4. Effects on Other Departments: Engineering students now could attend this course through the "**or consent of the instructor"** option
5. Effects on Regional Campuses: None
6. Staffing: No change
7. Dates approved by
Department Curriculum Committee: 5/2/06
Department Faculty: 5/11/06
8. Name, Phone Number, and e-mail address of principal contact person:

George Rawitscher, 6-4377, George.Rawitscher@uconn.edu

2006 - 88 Proposal to Change the PHYS Minor

1. Date: 8/9/2006
2. Department requesting this change: **Physics**
3. Title of Minor: Physics Minor
4. Nature of Change:
reduce the excessively restrictive nature of the present requirements, so as to permit students with different but equivalent course backgrounds to also graduate with the Physics Minor. The number of required credits is not changed

5. **Existing catalog Description** of the Minor:

Physics

Although this minor is particularly suitable for students in the physical or life sciences as well as in engineering, it will also serve other students who have the appropriate lower division calculus-based physics preparation. The minor introduces the students to the core concepts in mechanics, electricity and magnetism, thermal physics, and quantum physics, and provides further opportunities to study laser physics, nuclear and particle physics, solid state physics, and atomic and molecular physics. The minor requires a minimum of fifteen credits of 200 level course work.

Course Requirements

A total of fifteen credits consisting of

a. Three required courses (nine credits):
PHYS 209Q, PHYS 210Q, PHYS 230Q *and*

b. Two or more elective courses (six credits) from any of the PHYS 200's courses with no more than two credits from PHYS 291 and no more than three credits from PHYS 299.

The minor is offered by the Physics Department.

6. **Proposed catalog Description** of the Minor:

Physics

Although this minor is particularly suitable for students in the physical or life sciences as well as in engineering, it will also serve other students who have the appropriate lower division calculus-based physics preparation. The minor introduces the students to the core concepts in mechanics, electricity and magnetism, thermal physics, and quantum physics, and provides further opportunities to study laser physics, optics, nuclear and particle physics, and astrophysics. The minor requires a minimum of fifteen credits of 200 level course work.

Course Requirements

A minimum of fifteen credits, of which nine are from part (a) and six from part (b) below.

(**a)** At least one course from each of the three groups below:

Group one:
PHYS 230Q
Group two:
Phys 209 or one of either Phys 242 or ME 214 and one of either Phys 255 or ECE 205
Group three:
Phys 210 or both PHYS 271 and Phys 261

(b) Two or more elective courses (at least six credits) from any of the PHYS 200's courses other than the ones already taken above, with no more than three credits from each of PHYS 291, PHYS 292 and PHYS 299.

The minor is offered by the Physics Department.

7. Effective Date: Immediately

Justification

1. Why is a change required? There have been cases in which students had taken more advanced courses than the ones presently required for the Physics Major, and nevertheless could not graduate with a physics major. In order to remedy this “unjust” situation, the newly proposed requirements are more flexible, including courses from engineering, for example, that have the same, or a more advanced content, than the courses presently required.

2. What is the impact on students? The change makes it possible for a larger number of students to decide further along in their course-work career, to elect the Physics Minor.

3. What is the impact on regional campuses? None

4. Attach a revised "Minor Plan of Study" form to this proposal (see Note P). This form will be used similarly to the Major Plan of Study to allow students to check off relevant coursework. It should include the following information:

Revised “Minor Plan of Study”

A: Completion of a minor requires that a student earn a C (2.0) or better in each of the required courses for that minor. A maximum of 3 credits towards the minor may be transfer credits of courses equivalent to University of Connecticut courses. Substitutions are not possible for required courses in a minor.

Plan of Study:

Course Requirements
A minimum of fifteen credits, of which nine are from part (a) and six from part (b) below.

(**a)** At least one course from each of the three groups below:

Group one:
PHYS 230Q

Group two:
Phys 209 or one of either Phys 242 or ME 214 and one of either Phys 255 or ECE 205

Group three:
Phys 210 or both PHYS 271 and Phys 261

(b) Two or more elective courses (at least six credits) from any of the PHYS 200's courses other than the ones already taken above, with no more than three credits from each of PHYS 291, PHYS 292 and PHYS 299.

The minor is offered by the Physics Department.

B.
Name of Student: _____

I approve the above program for the (B.A. or B.S.) Minor in physics

(signed) _____ Dept. of Physics
Minor Advisor

5. Dates approved by (see Note Q):
Department Curriculum Committee: 5/2/06
Department Faculty: 5/11/06

6. Name, Phone Number, and e-mail address of principal contact person:

George Rawitscher, 6-4377, Physics Department,
George.Rawitscher@uconn.edu

2006 - 89 Proposal to Change an existing Major

1. Date: August 29, 2006
2. Department requesting this change: **Cognitive Science Focus**
3. Title of Major: Cognitive Science
4. Nature of Changes:
   a. Phil 241 moved from Core to Advanced course section
   b. Phil 247 (Phil of Psych), 249 (Phil of Neuroscience), and 256 (Phil of Perception) added to advanced courses
   c. Phil 247W, 249W, 256W added to writing requirements
   d. Ling 208 removed
   e.COGS 201 added to Core courses and wording changed slightly (with PHIl 241 moved to advanced courses, the 4 core courses (excluding COGS 201) will necessarily be in 4 departments
   f. ANTH 268 added to Research methods courses
   g. Small changes in general description to eliminate confusing reference to "advanced courses".
   h. Elective credits changed from 6 to '3-6', due to (1) the addition of COGS 201 to the Core course requirement and (2) the inclusion of CSE 237, CSE 259, LING 205, LING 206, and MATH 237 as both Formal Systems and Advanced Courses.
   i. Restriction of inclusion of pairs of similar courses (i) CDIS 202/202W and PSYC 239; (ii) PHIL 212/212W and SCI 240; (iii) CSE 237 and MATH 237.

5. Existing catalog Description of the Major:

Cognitive Science

Cognitive Science is the study of how intelligent beings (including people, animals, and machines) perceive, act, know, and think. It explores the process and content of thought as observed in individuals, distributed through communities, manifested in the structure and meaning of language, modeled by algorithms, and contemplated by philosophies of mind. Its models are formulated using concepts drawn from many disciplines, including psychology, linguistics, logic, computer science, anthropology, and philosophy, and they are tested using evidence from psychological experiments, clinical studies, field studies, computer simulations, and neurophysiological observation.

This program is intended to prepare students for graduate training in cognitive science and related disciplines or to work in the information sciences. Advanced courses from at least four different departments are required. The research and formal systems requirements provide basic knowledge concerning the experimental and theoretical foundations of cognitive science. Finally, majors are encouraged to learn about theory building and testing in a variety of natural and physical sciences. One way to achieve this is to fulfill the requirements of the Bachelor of Science degree.

General Requirements

The requirements for the cognitive science major include 39 200-level credits, no more than 21 of which may be taken in any one department. There are several 100-level courses that are required preparation for the 200-level requirements. These courses should be taken during the first four semesters and may fulfill general education requirements.

Core Courses (12 credits)

Four courses from four departments:

ANTH 244; CSE 282; LING 202; PHIL 241, 250; PSYC 256

Research Courses (6 credits)

Statistics (one of the following):
PSYC 202Q; STAT 201Q, 220Q (Calculus level)
Research Methods (one of the following):
LING 215; PSYC 210W, 211W, 215, 232W, 267/267W

Formal Systems Courses (3 credits)
CSE 254, CSE 257, CSE 259, MATH 211Q, 215, 216, 227Q, 231, 237, 279; PHIL 211Q, 214

Advanced courses (12 credits)
Must include courses from at least 3 departments. Can include core courses not needed to satisfy the core course requirement.
ANTH 232; CDIS 202/202W*, 244/244W, 253; CSE 298; LING 205; 206, 208, 244W; PHIL 210, 212/212W**; PNB 251; PSYC 206, 220, 221, 236, 239*, 254, 257, 260, 291/291W; SCI 240**

Electives (6 credits)
Two additional courses (from above lists or other related courses from any department), chosen with the approval of the advisors.

*Note: Only one of CDIS 202/202W and PSYC 239 may be counted toward the major.
**Note: Only one of PHIL 212/212W and SCI 240 may be counted toward the major.

Competency and Writing Requirements
The exit requirements for computer technology and information literacy will be met by satisfaction of the Research Methods Requirement. The exit requirements for writing in the major can be met by taking one of the following courses: CDIS 202W, CDIS 244W, LING 244W, PHIL 212W, PSYC 202WQ, PSYC 210W, PSYC 232W, PSYC 267W, PSYC 291W.

Students in the program will have an advisor and an associate advisor, each in different departments contributing to the cognitive science program. Students will consult with both of them to plan a course of study.

For further information, contact Associate Professor Jay Rueckl, Chair, Cognitive Science Steering Committee, 121 Psychology Building.

6. Proposed catalog Description of the Major (changes in red):

Cognitive Science

Cognitive Science is the study of how intelligent beings (including people, animals, and machines) perceive, act, know, and think. It explores the process and content of thought as observed in individuals, distributed through communities, manifested in the structure and meaning of language, modeled by algorithms, and contemplated by philosophies of mind. Its models are formulated using concepts drawn from many disciplines, including psychology, linguistics, logic, computer science, anthropology, and philosophy, and they are tested using evidence from psychological experiments, clinical studies, field studies, computer simulations, and neurophysiological observation.

This program is intended to prepare students for graduate training in cognitive science and related disciplines or to work in the information sciences. The distribution requirements ensure that students will acquire a truly interdisciplinary education. The research and formal systems requirements provide basic knowledge concerning the experimental and theoretical foundations of cognitive science. Finally, majors are encouraged to learn about theory building and testing in a variety of natural and physical sciences. One way to achieve this is to fulfill the requirements of the Bachelor of Science degree.

General Requirements

The requirements for the cognitive science major include 39 200-level credits, no more than 21 of which may be taken in any one department. There are several 100-level courses that are required preparation for the 200-level requirements. These courses should be taken during the first four semesters and may fulfill general education requirements.

Core Courses (15 credits)
COGS 201 and four of the following courses: ANTH 244; CSE 282; LING 202; PHIL 250; PSYC 256

Research Courses (6 credits)
Statistics (one of the following):
PSYC 202Q; STAT 201Q, 220Q (Calculus level)

Research Methods (one of the following):
ANTH 268; LING 215; PSYC 210W, 211W, 215, 232W, 267/267W

Formal Systems Courses (3 credits)
CSE 237*†, 254, 257, 259†; LING 205†, 206†; MATH 211Q, 215, 216, 227Q, 231, 237*†, 279; PHIL 211Q, 214

Advanced Courses (12 credits)
Must include courses from at least 3 departments. Can include core courses not needed to satisfy the core course requirement.

ANTH 232; CDIS 202/202W*, 244/244W, 253; CSE 237*†, 259†, 298; LING 205Q†; 206Q†, 244W; MATH 237*†; PHIL 210, 212/212W*, 241, 247/247W, 249/249W, 256/256W; PNB 251; PSYC 206, 220, 221, 236, 239*, 254, 257, 260, 291/291W; SCI 240**

Electives (3-6 credits)
One or two† additional courses (from above lists or other related courses from any department), chosen with the approval of the advisors.

* Due to content overlap, no more than one of each of the following pairs may be counted toward the major: (i) CDIS 202/202W and PSYC 239; (ii) PHIL 212/212W and SCI 240; (iii) CSE 237 and MATH 237.

† The following courses may be used to fulfill both the Formal Systems and Advanced Courses requirements: CSE 237, CSE 259, LING 205, LING 206, and MATH 237. In this event, two electives are required.

Competency and Writing Requirements
The exit requirements for computer technology and information literacy will be met by satisfaction of the Research Methods Requirement. The exit requirements for writing in the major can be met by taking one of the following courses: CDIS 202W, 244W; LING 244W; PHIL 212W, 247W, 249W, 256W; PSYC 202WQ, 210W, 232W, 267W, 291W.

Students in the program will have an advisor and an associate advisor, each in different departments contributing to the cognitive science program. Students will consult with both of them to plan a course of study.

For further information, contact Professor Letty Naigles, Director of Undergraduate Studies in Cognitive Science, 141 BOUS (Psychology Building).

7. Effective Date (semester, year -- see Note R): immediately.

Justification
1. Why is a change required?

a. COGS 201 is currently the 'flagship' course of the Cognitive Science major; hence it should be taken as a core course. Phil 241 is moved from the Core to Advanced course sections so that each of the four remaining Core courses comes from a distinct department. These changes facilitate the interdisciplinary nature of Cognitive Science.

b. Phil 247 (Phil of Psych), 249 (Phil of Neuroscience), and 256 (Phil of Perception) are courses newly recognized as relevant to Cognitive Science; hence added to advanced courses. Likewise Phil 247W, 249W, 256W, which are added to the writing requirements section.

c. Ling 208 removed because it is no longer taught at the university.

d. ANTH 268 is newly recognized as relevant to Cognitive Science, hence added to Research methods courses

e. The small changes in the general description eliminate confusing references to "advanced courses".

f. Elective credits are changed from 6 to '3-6', due to (1) the addition of COGS 201 to the Core course requirement and (2) the inclusion of CSE 237, CSE 259, LING 205, LING 206, and MATH 237 as both Formal Systems and Advanced Courses. That is, students will take 5 core courses now; those who do not take CSE 237, CSE 259, LING 205, LING 206, or MATH 237 will take 3 credits of electives. Those who do take one of these courses will take 6 credits of electives.

g. The restriction of inclusion of pairs of similar courses (i) CDIS 202/202W and PSYC 239; (ii) PHIL 212/212W and SCI 240; (iii) CSE 237 and MATH 237 will minimize repetition of course material.

2. What is the impact on students?
Change (a) gives all Cognitive Science majors an introduction to the fundamental issues of cognitive science while also showing them how the 4 major disciplines each view cognitive science. Changes (b-d, f-g) give the students more possible courses for the cognitive science major; they also clarify and further specify the requirements of the major. Change (f) also enables the number of credits for the major to remain at 39. Change (e) eliminates confusing references.

3. What is the impact on regional campuses? none

4. Dates approved by (see Note Q):
Department Curriculum Committee: April 5, 2006
Department Faculty: April 5, 2006

5. Name, Phone Number, and e-mail address of principal contact person:
Professor Letty Naigles, 6-4942, letitia.naigles@uconn.edu