April 6, 2007

MEMORANDUM

TO: Edward Montgomery  
Dean, College of Behavioral and Social Sciences

FROM: Phyllis Peres  
Associate Provost for Academic Planning and Programs

SUBJECT: Proposal to Add a Minor in Neuroscience (PCC log no. 06044)

At its meeting today, the Senate Programs, Curricula, and Courses committee approved your proposal to add a Minor in Neuroscience. A copy of the approved proposal is enclosed.

The Minor is effective Fall 2007. The College should ensure that the Minor is fully described in the Undergraduate Catalog and in all relevant descriptive materials, and that all advisors are informed.

CWR/

Enclosure

cc: Richard Ellis, Chair, Senate PCC Committee  
Sarah Bauder, Office of Student Financial Aid  
Mary Giles, University Senate  
Barbara Hope, Data Administration  
Kathy McAdams, Undergraduate Studies  
Anne Turkos, Archives  
Linda Yokoi, Office of the Registrar  
Katherine Pedro Beardsley, College of Behavioral and Social Sciences  
Cynthia Moss, Psychology  
Katherine Russell, Psychology
THE UNIVERSITY OF MARYLAND, COLLEGE PARK
PROGRAM/CURRICULUM PROPOSAL

DIRECTIONS:
- Provide one form with original approval signatures in lines 1 - 4 for each proposed action. Keep this form to one page in length.
- Early consultation with the Office of the Associate Provost for Academic Planning & Programs is strongly recommended if there are questions or concerns, particularly with new programs.
- Please submit the signed form to Claudia Rector, Office of the Associate Provost for Academic Planning and Programs, 1119 Main Administration Building, Campus.
- Please email the rest of the proposal as an MSWord attachment to pcc-submissions@umd.edu.

DATE SUBMITTED ___

PCC LOG NO. 06044

COLLEGE/SCHOOL BSOS & CLFS

DEPARTMENT/PROGRAM PSYC & BSCI

PROPOSED ACTION (A separate form for each) ADD x DELETE CHANGE

DESCRIPTION (Provide a succinct account of the proposed action. Details should be provided in an attachment. Provide old and new sample programs for curriculum changes.)

Revised Proposal for an undergraduate Minor in Neurosciences

JUSTIFICATION/REASONS/RESOURCES (Briefly explain the reason for the proposed action. Identify the source of new resources that may be required. Details should be provided in an attachment.)

See attached proposal.

APPROVAL SIGNATURES - Please print name, sign, and date

1. Department Committee Chair Katharine Russell 1/24/07
2. Department Chair H. Stagl 1/25/07
3. College/School PCC Chair
4. Dean
5. Dean of the Graduate School (if required)
6. Chair, Senate PCC
7. Chair of Senate
8. Vice President for Academic Affairs & Provost

4/6/07

VPAAP 8-05
Proposal for Undergraduate Minor in Neuroscience
University of Maryland
2 April 2007

Department of Psychology
College of Behavioral and Social Science

Department of Biology
College of Chemical and Life Sciences

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9. Research Option and Non-Research Option for Electives
10. Student Learning Outcomes
11. Minor in Neurosciences Course Requirements (17-22 credits) & Prerequisites
12. Application
13. Sample Four-Year Plan for a PSYC Major
14. Sample Four-Year Plan for a GENB Major

Attachments

i. Course Requirements Worksheet

ii. Letters/Emails of support from:
   Dr. Jane E. Clark, KNES
   Dr. Nan Bernstein Ratner, HESP
   Dr. Peter Carruthers, PHIL
   Dr. Harold Sigall, PSYC
   Dr. Cynthia Moss, NACS
1. Introduction

This is a proposal for a new undergraduate Minor in Neurosciences. The transcript will designate the minor as "Neurosciences".

2. Catalog Description

The Minor in Neurosciences will give the highly qualified and motivated undergraduate an opportunity to study Neuroscience. The emphasis includes study in systems, cognitive, and computational neuroscience in a manner that crosses the traditional boundaries of Psychology, Biological Sciences, and other related disciplines. The minor is most appropriate for students who already have a background in the biological sciences or psychology. All majors are eligible for the minor except students in the Physiology & Neurobiology (PHNB) track in Biological Sciences (BSCI). Students wishing to pursue the Minor in Neurosciences must have already completed BSCI105 and CHEM131&132 and (PSYC301 or BSCI330) all with a grade of C (2.0 GPA) or higher. There are a number of science course prerequisites for the required and elective classes for the Minor in Neurosciences that are not included in the required credits.

3. Restrictions

Students may only count a maximum of two courses (6-8 credits) toward both their major degree requirements and the Minor in Neurosciences.

Students should carefully review the pre-requisites for all courses listed for the Neurosciences minor. A student without a sufficient science background may not be able to complete the minor in the allotted credits.

Students majoring in Biological Sciences-Physiology and Neurobiology (PHNB) are NOT eligible for the Minor in Neurosciences due to extensive overlap in curriculum requirements.

4. Eligibility and Application to the Minor

In order to apply for the Minor in Neurosciences, a student must have:

1. Completed at least 30 college credits and at least 15 credits at UM.
2. Earned at least a C (2.0 GPA) in BSCI105 and CHEM131&132 or have AP equivalents.
3. Earned at least a C (2.0 GPA) in PSYC301 or BSCI330.
4. Be in good academic standing.

Applications for the Minor in Neurosciences will be considered three times per year on October 1, March 1, and June 1 each year. Students will be notified via email regarding the status of their application within three weeks of the submission deadline. That way, students will know whether or not they will be accepted to the Minor prior to their early registration date for the next semester.

Interested students may submit an application for the minor to the Undergraduate Psychology Office (BPS 1107). Applications will be available on the Neurosciences and Cognitive Sciences (NACS) Program website (www.nacs.umd.edu).
5. **Enrollment Limit**

The enrollment in the Minor in Neurosciences will be limited to 20 students during the first year it is offered (2007-2008). Students will be admitted on a first-come-first-served basis. In 2008-2009, the limit will be raised to 40 students if there is sufficient demand. In spring 2009, the enrollment in the minor will be reviewed and the projected impact of the minor students on course enrollments will be considered by the Directors of Undergraduate Programs in PSYC and CLFS. At that time the enrollment limit can be changed or removed based on the data collected from the 2007-08 and 2008-09 academic years.

6. **Academic Advising Plan**

Advising for students interested in the Minor in Neurosciences will be provided by the Psychology Department Advisors (BPS 1107) and a designated liaison for the Minor in Neurosciences in the College of Chemical and Life Sciences (to be named later). Information about advising for the minor will be available on the Neurosciences and Cognitive Sciences (NACS) Program website (www.nacs.umd.edu) and linked from both the PSYC Undergraduate website and from the CLFS Undergraduate website.

7. **Resource Requirements and Availability**

The Minor in Neurosciences has been designed so that students have ample choice in course selection. All students in the Minor in Neurosciences must enroll in the “Topics in Neurosciences Seminar” (PSYC409) for at least one semester. Every other requirement in the Minor offers a choice of courses. It is also anticipated that this minor will appeal to a relatively small number of students, and so will not put an undue burden on seat availability.

8. **Faculty Advisors**

Cynthia Moss, Ph.D., Department of Psychology, Department of Biology, NACS
Catherine Carr, Ph.D., Department of Biology, NACS

9. **Research Option and Non-Research Option for Electives**

Students pursuing the Minor in Neurosciences will have the opportunity to participate in research in neuroscience for credit as part of their electives for the minor. This research component can count as one of the two elective requirements. Students who choose the research option will enroll in one of the approved research courses for a total of three credits spread over one to three terms. Students who choose this option must have their research course approved by one of the faculty advisors for the Minor. Students can earn academic credit for this research through research course numbers in Psychology, Biological Sciences, and other programs with the approval of the minor advisor. (The research project must be directly related to neurosciences and have the prior approval of one of the minor advisors in order to count toward the minor credits.)

Students who do not choose the research option will select a total of two courses from the list of electives to complete the requirements for the Minor in Neurosciences.

10. **Student Learning Outcomes**
1. Students should demonstrate understanding of the important concepts in neuroscience.
2. Students should be able to read and interpret experimental data from the primary literature.
3. Students should be able to effectively communicate their ideas and results in writing.
### 11. Minor in Neurosciences Course Requirements (17-22 credits) and Prerequisites

#### I. Five Required Courses (11-14 cr.)

- **PSYC301 or BSCI453**
  - Course: PSYC301 Biological Basis of Behavior (3)
  - Prerequisites: BSCI105, PSYC100

- **PSYC401 or BSCI454**
  - Course: PSYC401 Biological Basis of Behavior Lab (4)
  - Prerequisites: BSCI105, PSYC200, PSYC301 or equiv.

- **PSYC402 or BSCI446**
  - Course: PSYC402 Neural Systems (3)
  - Prerequisites: BSCI105, BSCI106, BSCI222

- **PSYC409**
  - Course: Topics in Neuroscience Seminar (1)
  - Prerequisites: Permission of Instructor & Department

- **PSYC310**
  - Course: Perception
  - Prerequisites: PSYC100, (BSCI105 or CHEM131/132 or PHYS121)

- **PSYC440**
  - Course: Experimental Psychology: Cognitive Processes
  - Prerequisites: PSYC200 & perm. of dept.

- **PSYC404**
  - Course: Neuropsychopharmacology
  - Prerequisites: PSYC200, (PSYC206 or PSYC301 or perm. of dept.)

- **PSYC406**
  - Course: Neuroethology
  - Prerequisites: PSYC200, (Recomm PSYC206 or 301)

- **Elective graduate courses below are only with permission of instructor, department, and college**

#### II. Elective Courses (6-8 cr.)

- **BSCI338A**
  - Course: Spec. Topics in Biol.: Cognitive Neuroscience
  - Prerequisites: BSCI230

- **BSCI338D**
  - Course: Spec. Topics in Biol.: Developmental Neurobiology
  - Prerequisites: BSCI230

- **BSCI440**
  - Course: Mammalian Physiology
  - Prerequisites: BSCI230, CHEM231/232

- **HESP 300**
  - Course: Intro to Psycholinguistics
  - Prerequisites: HESP202 or perm. of dept.

- **HESP 305**
  - Course: Anat. & Phys. of the Speech Mechanism
  - Prerequisites: HESP 202 or perm. of dept.

- **HESP311**
  - Course: Anat., Path. and Phys. of the Auditory System
  - Prerequisites: HESP202 or perm. of dept.

- **HESP407**
  - Course: Bases of Hearing Science
  - Prerequisites: HESP313 or perm. of dept.

- **HESP 422**
  - Course: Neurological Bases of Human Communications
  - Prerequisites: HESP305 or perm. of dept.

- **KNES 385**
  - Course: Motor Control and Learning
  - Prerequisites: Perim of dept.

- **KNES462**
  - Course: Neural Basis of Human Movement
  - Prerequisites: BSCI201/202 and KNES385 or perm.

- **KNES498P**
  - Course: Spec. Top.: Movt. Disorders: Theory & Practice
  - Prerequisites: Perim. of dept.

- **PHIL485**
  - Course: Philosophy of Neuroscience
  - Prerequisites: PHIL250, PHIL366, PHIL380, PHIL456 or perm. of dept.

- **PSYC310**
  - Course: Perception
  - Prerequisites: PSYC100, (BSCI105 or CHEM131/132 or PHYS121)

- **PSYC440**
  - Course: Experimental Psychology: Cognitive Processes
  - Prerequisites: PSYC200 & perm. of dept.

- **PSYC404**
  - Course: Neuropsychopharmacology
  - Prerequisites: PSYC200, (PSYC206 or PSYC301 or perm. of dept.)

- **PSYC406**
  - Course: Neuroethology
  - Prerequisites: PSYC200, (Recomm PSYC206 or 301)

- **NACS641**
  - Course: Introduction to Neuroscience
  - Prerequisites: Permission of Instructor & NACS

- **NACS642**
  - Course: Cognitive Neuroscience
  - Prerequisites: Permission of Instructor & NACS

- **NACS728N**
  - Course: Computational Neuroscience
  - Prerequisites: Permission of Instructor & NACS

- **NACS728Y**
  - Course: Introduction to Cognitive Science
  - Prerequisites: Permission of Instructor & NACS

- **NACS728Z**
  - Course: Cellular and Molecular Neuroscience
  - Prerequisites: Permission of Instructor & NACS

- **Research Option (3 credits spread over 1-3 terms).**
  - Course: Student will have the opportunity to participate as a research assistant in a neurosciences laboratory leading to a research paper. (e.g. BSCI1399, PSYC479)
  - Prerequisites: Permission of Minor in Neurosciences Faculty Advisor (Dr. Carr or Dr. Moss)

- **Honors Thesis**
  - Course: A student in a Departmental Honors Program may substitute a Senior Honor's Thesis in Neurosciences for this requirement.
  - Prerequisites: (Consult with a faculty advisor for placement in a neurosciences research laboratory.)

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(1) Not all of the electives are available every year. Check with an advisor about the availability of individual classes.

(2) Student must meet all posted prerequisites for the elective course or obtain the written permission of the instructor.

(3) Undergraduate students who are pursuing a minor in neurosciences must complete a "Permission to Enroll in a Graduate Class" form and obtain all of the required signatures in order to enroll in a graduate class (500-700 level). Students can get permission for a graduate-level class on a case-by-case basis with the approval of the instructor, advisor, department and college offering the course. Each college has a form for this purpose.

(4) If you find a course related to neuroscience that is not listed here, please ask an advisor if you can use that course as an elective course for the Minor.
12. Application

Application for Minor in Neurosciences

In order to apply to the Minor in Neurosciences you should:

1. Complete this application.
2. Write a letter explaining your interests in Neurosciences.
3. Modify your 4-year plan to include your major and minor requirements.
4. Meet with one of the faculty advisors* for the Minor in Neurosciences (by appointment only).
5. Submit your application to the Undergraduate Psychology Office (BPS 1107).

Name

Major(s)

Student ID Number

Local Address

City, State, Zip Code

Phone Number

E-mail Address

Entrance Requirements:
The following entrance requirements are required in order to apply to the Minor in Neurosciences.

BSCI105 _____________ Grade of C (2.0 GPA) or higher or AP equivalent

CHEM131&132 ___________ Grade of C (2.0 GPA) or higher or AP equivalent

PSYC301 or BSCI330 ______ Grade of C (2.0 GPA) or higher

Please look carefully at requirements and prerequisite courses for the Minor in Neurosciences.

Approval of a Faculty Advisor in Neurosciences: _________________________________________

Signature    Date

* Faculty Advisors
Dr. Catherine Carr, Department of Biology, University of Maryland, cecarr@umd.edu
Dr. Cynthia Moss, Department of Psychology, University of Maryland, cmoss@psyc.umd.edu
13. Sample Four-Year Plan for **PSYC (BS)** Major with **Minor in Neurosciences**

### Freshman

<table>
<thead>
<tr>
<th>Course</th>
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<th>Course</th>
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<tbody>
<tr>
<td>PSYC100 (PSYC &amp; CORE SB)</td>
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<td>MATH140/220 (PSYC)</td>
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<td>ENGL101 (FE)</td>
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<td>CORE D</td>
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<td>UNIV100</td>
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<td>CORE HL</td>
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<td>MATH113/115 (FM)</td>
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<td>BSCI105 (PSYC &amp; CORE LL)</td>
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<td>CORE HA</td>
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<td>PSYC Area II (PSYC)</td>
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### Sophomore

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<td>PSYC301 (PSYC &amp; Minor)</td>
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<td>CORE SB</td>
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<td>PSYC Area III (PSYC)</td>
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<td>PSYC Elective (PSYC)</td>
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<td>CORE HL/HA/HO</td>
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<td>CORE SH</td>
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<td>BSCI330 (BS in PSYC)</td>
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<td>CHEM131&amp;132 (Minor in NS &amp; CORE PL)</td>
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<td>Elective</td>
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### Junior

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<td>PSYC402 (PSYC &amp; Minor in NS)</td>
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<td>CORE Prof. Writing (ENGL391-395)</td>
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<td>PSYC401 (PSYC Lab)</td>
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<td>BSCI222 (adv. for BS in PSYC)</td>
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<td>BSCI (adv. for BS in PSYC)</td>
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<tr>
<td>PSYC409 (Minor in NS)</td>
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<td>CORE Adv. Studies</td>
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<td>2</td>
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### Senior

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<td>PSYC Lab (PSYC Lab)</td>
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<td>PSYC403/BSCI360 (Minor in NS)</td>
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<td>PSYC404 (Elective, for Minor in NS)</td>
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<td>BSCI (adv. for BS in PSYC)</td>
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<td>PSYC479 (Research, Minor in NS)</td>
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<td>CORE Adv. Studies</td>
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### 14. Sample Four-Year Plan for BSCI (GENB) Major with Minor in Neurosciences

#### Freshman

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<td>CHEM 131&amp;132</td>
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<td>CORE</td>
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<td>MATH 220</td>
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<td>MATH 221</td>
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<td>UNIV 100</td>
<td>1</td>
<td>Elective</td>
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#### Sophomore

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<td>BSCI 207</td>
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<td>BSCI 222</td>
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<td>CHEM 241&amp;242</td>
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<td>CHEM 271&amp;272</td>
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#### Junior

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<td>BCHM 463</td>
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<td>BIOM 301</td>
<td>3</td>
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<td>BSCI 330</td>
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<td>BSCI Lab</td>
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<tr>
<td>CORE</td>
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<td>ENGL 391/393/395</td>
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<tr>
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<td>PSYC 409</td>
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#### Senior

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<th>Course</th>
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<tbody>
<tr>
<td>BSCI 360 (Major &amp; Minor)</td>
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<td>BSCI lec</td>
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<tr>
<td>BSCI 453&amp;454 (Major &amp; Minor)</td>
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<td>BSCI lec</td>
<td>3</td>
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<tr>
<td>PSYC402 (Minor)</td>
<td>3</td>
<td>NS Elective (Minor)</td>
<td>3-4</td>
</tr>
<tr>
<td>Research in NS (Minor)</td>
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<td>Research in NS (Minor)</td>
<td>2</td>
</tr>
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<td>Elective</td>
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# Minor in Neurosciences
## Course Requirements Worksheet

### Entrance Requirements:
The following entrance requirements are required in order to apply to the Minor in Neurosciences.

<table>
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<tr>
<th>Course</th>
<th>Requirements</th>
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<tbody>
<tr>
<td>BSCI105</td>
<td>Grade of C (2.0 GPA) or higher or AP credit equivalent</td>
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<tr>
<td>CHEM131 &amp; 132</td>
<td>Grade of C (2.0 GPA) or higher in both or AP credit equivalent</td>
</tr>
<tr>
<td>PSYC301 or BSCI330</td>
<td>Grade of C (2.0 GPA) or higher</td>
</tr>
</tbody>
</table>

Total Credits _______________ At least 30 college credits with at least 15 cr. at UMCP are required to apply to the minor.

### I. Required Courses (Grades of C 2.0 or higher):
- PSYC 301 (3 cr.) or BSCI453 (3 cr) __________
- PSYC402 (3 cr.) or BSCI446 (3 cr) __________
- PSYC403 (3 cr.) or BSCI360 (3 cr) __________
- PSYC401 (4 cr.) or BSCI454 (1 cr) __________
- PSYC 409 (1 cr) __________

### II. One Elective Course (3 or 4 cr.) from approved list

**________________________________________**

### III. Second Elective Course or Research Credits in Neurosciences* (3 cr.) (over 1-3 terms) or Approved Honor's Thesis

**________________________________________**

* Consult with your faculty advisor in Neurosciences for research placement.

### Requirements Check List:
- __ Entrance Requirements
- __ No more than 2 courses or 8 cr. counting toward major & minor
- __ Grade of C (2.0 GPA) or higher in all minor courses
- __ Met with Academic Advisor in PSYC or CLFS
- __ Met with Faculty Advisor in Neurosciences.

Faculty Advisor for Minor in Neurosciences:

**______________________________________**
Dear Katherine:

The Kinesiology Department approves the inclusion of KNES 385, 462, 498P and 498V as elective courses for the Minor in Neurosciences.

best,

jane clark
Professor & Chair
From: Nan Ratner
To: Katherine Russell
Date: 12/12/2006 2:33:03 PM
Subject: Re: HESP Courses & Minor in Neurosciences

Katherine, my faculty enthusiastically support the inclusion of these classes as electives for a neurosciences concentration: 300, 305, 311, 407 and 422 (cross list UG/Grad Neurological Bases of Human Communication) all probably fit the spirit of what you envision but we will leave that up to you; many courses in HESP seem appropriate. We would welcome Neuroscience minors in all of these, pending any unforeseen seats problems that we can worry about later. Some may need to obtain permission, and we will provide it, given seat availability at time of request.

Nan

Nan Bernstein Ratner, Professor and Chairman
Department of Hearing and Speech Sciences
0100 Lefrak Hall
University of Maryland
College Park, MD 20742
nratner@hesp.umd.edu
http://www.bsos.umd.edu/hesp/facultyStaff/ratnern.htm
301-405-4213
301-314-2023 (fax)
Dear Katherine

We are happy to approve the inclusion of PHIL 485 Philosophy of Neuroscience as an elective choice within the new Minor in Neurosciences.

Yours with best wishes
Peter

--
Peter Carruthers
New book: www.philosophy.umd.edu/Faculty/pcarruthers/Books-1.htm
Home page: www.philosophy.umd.edu/Faculty/pcarruthers/
Professor and Chair
Department of Philosophy
University of Maryland
1125 Skinner Building
College Park, MD 20742, USA
Tel. (office): 301 405 5705
Tel. (home): 301 270 5107
Date: 29 January 2007

To: College & University Committees Considering the Proposal for a Minor in Neurosciences

From: Harold Sigall, Professor and Interim Chair, Department of Psychology

Subject: Recommendation

The Psychology Department's Undergraduate Committee, the Policy Review Committee for the Department, and the full-faculty of the Department of Psychology voted their support for the Proposal for a Minor in Neurosciences in Fall 2004.

They still support this proposal.

If you desire further information, please let me know.
November 8, 2004

To: College and University Committees Considering the Proposal for a Minor in Neurosciences

From: Cynthia F. Moss, Professor and Director of the Program in Neuroscience and Cognitive Science

The NACS faculty enthusiastically supports the proposal for a Minor in Neurosciences to provide interested undergraduates an opportunity to formally expand their knowledge in this interdisciplinary field.

We would offer the following resources for undergraduate students pursuing a minor in Neurosciences:

1) Psychology 409/Psychology 789C: Topics in Neuroscience Seminar
2) Research opportunities in the laboratories of NACS faculty
3) NACS graduate courses on a case-by-case basis, with the permission of the instructor
Subject: Re: Minor in Neurosciences Proposal , 4/2/07 Version
From: "Katherine Russell" <russell@psyc.umd.edu>
Date: Tue, 03 Apr 2007 10:08:21 -0400
To: "Claudia Rector" <crector@umd.edu>
CC: "Katherine Pedro Beardsley" <KBEARDSLEY@bsos.umd.edu>

Dear Claudia:

The changes in the most recent draft are very minor and include:

1. BSCI230 changed to BSCI330 everywhere it appears.

2. Enrollment Limit: The CLFS PCC recommended that I add that admission to the minor will be first-come first-served.

3. Restrictions: The CLFS PCC recommended that I note that PHNB majors cannot enroll in the minor because of "extensive overlap in curriculum requirements."

Thanks,
Katherine

Katherine F. Russell, PhD
Director of Undergraduate Studies
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University of Maryland
College Park MD 20742-4411
301-405-5866
krussell@umd.edu

| | | Claudia Rector <crector@umd.edu> 4/3/2007 8:22 AM >>>

Dear Katherine,

Could you please list briefly the changes that were made? The proposal in its previous form was already distributed to the Senate PCC for review, so we need to be able to explain what changed between that version and the new one.

Thanks very much,
Claudia