To be adopted:

Proposal for a B.S. in Psychology

**PRESENT**

**PROPOSED**

**Major Requirements**

**Psychology Major**

Psychology offers B.A. and B.S degrees

**The major requirements for the B.S. degree in Psychology are as follows:**

The B.S. degree is designed to provide a research-intensive curriculum for students who want a deeper understanding of how knowledge is created through research and for students who may be interested in research-based graduate programs in psychology and the biological sciences.

**Psychology courses must be taken for a letter grade.** Students must check course descriptions for prerequisite requirements.

**Admission:** A limited number of students are accepted into the B.S. Degree of the Psychology major. Acceptance is according to overall GPA and acceptable progress towards the Psychology major, including PSCY 001, PSYC 002, PSYC 011 and PSYC 012 with a B- or better. Students must apply when they have completed between 75 and 100 quarter units of college work.

1. **Lower-division requirements for the B.S. (40 units)**
   
   a) One course in Mathematics chosen from MATH 004, MATH 005, MATH 008A, or MATH009A
   
   b) One course in biological sciences chosen from BIOL 002 or both BIOL 005A and BIOL 05LA, BIOL 003 or BIOL 005B, BIOL 005C, BIOL 034
   
   c) One course in physical science chosen from
(1) CHEM 001A, CHEM 001B, CHEM 001C (and CHEM 01LA, CHEM 01LB, CHEM 01LC), CHEM 003

(2) PHYS 002A, PHYS 002B, PHYS 002C, PHYS 007, PHYS 008, PHYS 010, PHYS 012, PHYS 016, PHYS 18, PHYS 020, PHYS 021, PHYS 022, PHYS 024, PHYS 040A, PHYS 040B, PHYS 040C

(3) Any Geosciences courses except for cultural geography courses

d) Two additional courses chosen from b), or c) above, any computer science course, any statistics course, any math course except those listed in a) above

e) PSYC 001, PSYC 002, PSYC 011, PSYC 012 with no grade below a B-

2. Upper-division requirements for the B.S. (37-43 units)

a) PSYC 109

b) PSYC 110 or CBNS 106

c) PSYC 140, PSYC 150

d) PSYC 132 or PSYC 134

f) PSYC 160

g) Any two of the following: CBNS/PSYC 120L, PSYC 180, PSYC 181, PSYC 182 (E-Z), PSYC 195, PSYC 197 (for a total of 4 units, letter grade required), PSYC 199H

h) One of the following: PSYC 136, PSYC 139, PSYC 148, PSYC 169. One of the following graduate seminars may be substituted, with permission of the instructor: PSYC 251, PSYC 255, PSYC 256, PSYC 257, PSYC 258, PSYC 263

i) One additional 4-unit, upper-division Psychology course. No 190- series courses
other than PSYC 198G or PSYC 198I may be used.
JUSTIFICATION:

1. The B.S. degree is designed to provide a more research-intensive curriculum for students who may apply to research-based graduate programs in psychology and the biological sciences (including, but not limited to neuroscience and medicine). A goal of the B.S. degree is to provide students with research-based experiences in order to make their graduate applications more competitive and to increase their chances for success in those programs. Implementation has been requested by a significant number of students and the faculty’s long-standing interest in offering a B.S. was moved to action by the support of the External Undergraduate Review Team and the subsequent endorsement by the Committee on Educational Policy.

2. Admissions to the B.S. is necessary to ensure that the number of students does not exceed the program capacity. As the required laboratory and seminars typically have a capacity of 20 enrolled students per course, the planned offering of a laboratory and seminar course each quarter of the academic year should yield a capacity of 60 students at the junior level and 60 at the senior level. Relevant to this, the Department currently offers each of the courses that are required for the B.S. (which are not also required for the B.A.) but at half the frequency than will be needed for the students in the B.S. when it reaches maximum capacity. Specifically, analysis suggests that we have the faculty sufficient to cover the added 3-4 lab and seminar courses per year that will be needed for students in the B.S., without impacting the capacity of the B.A. degree. Also, CHASS Dean Cullenberg has stipulated that he supports this B.S. proposal and will provide the 4 additional quarters of TA support needed. Finally, as all or virtually all of the students qualified for admission to the B.S. will be from the psychology B.A., the existence of the B.S. degree is not expected to significantly increase the number of psychology majors.

3. Except as described in #4 below, the lower-division requirements for the B.S. are identical to the lower-division requirement of the B.A.

4. For lower-division B.S. requirement e), a minimum grade of B- is specified for PSYC 001, PSYC 002, PSYC 011 and PSYC 012, as a B- in those courses is a prerequisite for PSYC 109, which is a required course for the B.S.

5. Except as described in #6-9, the upper-division requirements of the B.S. are identical to those of the B.A.

6. For the B.S. requirement 2.a, PSYC 109 “Advanced Research Methods” provides core knowledge for the major and the advanced foundation for the subsequent laboratory courses.

7. For the B.S., requirement 2.g provides students with a choice of lab courses or research in the laboratory of a faculty member, with the goal of providing in-depth research experience.

8. For the B.S., requirement 2.h provides students with a choice of seminars, with the goal of providing in-depth experience in reading, evaluating, integrating and presenting scientific literature.

9. For the B.S., in requirement 2.i the total number of elective psychology courses was reduced from 4 in the B.A. to 1 in the B.S. to maintain rough equivalence between the total number of units required for the B.A. and the B.S.
APPROVALS:

Effective: Fall, 2010
Approved by the faculty of the Department of Psychology: January 21, 2010
Approved by the Executive Committee of the College of Humanities, Arts, and Social Sciences: March 31, 2010
Approved by the faculty of CHASS: April 28, 2010
Approved by the Committee on Educational Policy: April 30, 2010
Dean Cullenberg’s support for the (BS) in Psychology:

Date: Wed, 14 Apr 2010 16:31:02 -0700
To: glenn.stanley@ucr.edu
From: Stephen Cullenberg <stephen.cullenberg@ucr.edu>
Subject: Re: Fwd: Psychology major (BS)
Cc: Anil Deolalikar <anil.deolalikar@ucr.edu>,
    David Herzberger <david.herzberger@ucr.edu>,
    Dianne Fewkes <dianne.fewkes@ucr.edu>,
    Gabrielle Brewer <gabrielle.brewer@ucr.edu>,
    Steve Clark <steven.clark@ucr.edu>

Glenn,

I support your proposal for a BS in Psychology. I also support an additional 4 quarters of TAship, depending on demand of course.

Steve

At 01:53 PM 4/12/2010, Glenn Stanley wrote:
Steve,

Stemming from consideration by the CHASS Executive Committee of a proposal for a BS in Psychology, I was asked in the email below from Gabrielle Brewer that "If it appears that many more resources will be needed, then you will have to ask the Dean for a memo endorsing the proposal and agreeing to provide the resources necessary." Since I'm not sure of what qualifies as "many more resources" I'm writing to outline for you the extra resources that will be required, and to request a "memo endorsing the proposal and agreeing to provide the resources necessary."

I project that an average of 4 additional quarters of TA support/year will be required when the BS is at its maximum throughput capacity of 60 students per year, likely 2 years after inception. These will be needed to TA the addition of 1 to 2 lab courses per year and the additional offering of Advanced Research Methods (PSYC 109) every other year, as well as to handle the increased enrollment in PSYC 109. I do not anticipate that additional space or faculty will be needed.

To explain, the proposed BS is designed to provide a research intensive experience to a maximum of 60 juniors and 60 seniors per year, all of whom are expected to be drawn from the ranks of students in the existing psychology BA. Consequently, no increase in the number of psychology majors is anticipated. The proposed BS will be selecting based on GPA and the completion of required lower division courses in the psychology BA with a B- or above (see attached proposal). For the BS, students will be required to take 3 specific courses or types of courses that are not required for the BA: 1) PSYC 109 "Advanced Research Methods", 2) a lab course or a PSYC 197 research course in a faculty lab, and 3) an upper division undergraduate seminar, which does not require a TA and so will not be discussed further. At present, an average of 2 quarters of T.Aship/year are required to offer these courses and 6 quarter of
TAship/year will be needed for the BS (see table under my signature block that breaks this down).

Because the lab courses can typically accommodate a maximum of about 20 students each, the department will need to offer a lab course every quarter in order to handle 60 BS students/year and each lab course will require a TA. As we currently offer 1-2 lab courses per year, for the BS we will need an additional 1-2 quarters of TA support per year for the added lab courses. As for PSYC 109, the department currently offers this course in alternating years and we anticipate that we will need to offer this course every year once a cohort of students is admitted into the BS. Further PSYC 109 is expected to enroll 60 students and because it is a combined lecture and lab course with 20 students/lab section, will require 3 TA each time it is taught, as opposed to the current requirement of a single TA in alternating year. Collectively, this yields an increase of 4 quarters of TAships needed every year that the BS is at a capacity of 60 students/year. Assuming approval of the BS for the 2010-2011 AY, we expect to ramp up the number of BS students slowly and do not anticipate increase TAships being needed until the 2011-2012 academic year.

I'm at your service if you want to meet on this issue or need clarification or additional information.

Regards,
Glenn
P.S. An explanatory "table" follows showing TAs needs at present and with the BS

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<thead>
<tr>
<th>TAs/Year Needed for BS</th>
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<tr>
<td>Lab fall (1 TA needed)</td>
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<td>Lab winter (1 TA needed)</td>
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<td>Lab spring (1 TA needed)</td>
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<td>PSYC 109 (3 TA needed)</td>
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<tr>
<td>Total of 6 quarters of TAship needed per Year</td>
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<tr>
<th>TAs/Year Currently Used for Lab Courses and PSYC 109</th>
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<tr>
<td>PSYC 109 in alternate years (average of 0.5 quarter of TAship/year)</td>
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<tr>
<td>1 to 2 labs/year (average of 1.5 quarters of TAship/year)</td>
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<td>Total of 2 quarters of TAship per Year</td>
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