Recommendation from the Committee on Undergraduate Studies (Amy Johnson, Chair) with the concurrence of the Coordinating Committee on Education (Alan Fox, Chair) and the Executive Committee (Dallas Hoover, Chair) for the request to add a BS major in Psychology (attachment) (attachment)

Whereas, we would like to increase the number of students who apply to graduate schools in psychology and the competitiveness of our best students for entrance into top level graduate programs, and

Whereas, we would like to better meet the needs of students with strong science backgrounds and interests who change majors to Psychology because of changing career aspirations, and

Whereas, we would like to offer dedicated students the opportunity to engage in depth the rigorous scientific approach to Psychology advocated by the faculty. A Bachelor of Science Degree Program serves a rhetorical purpose in communicating that approach and will serve to recruit select students away from the Bachelor of Arts program. As we develop the Bachelor of Science Program, we plan to focus on providing exciting, rigorous, and sequenced research experiences in our laboratories, and

Whereas, a Bachelor of Science Degree Program dramatically enhances our competitiveness in applying for grants from federal funded programs for undergraduate research and teaching in aspects of psychological science. NIMH, for example, has a program to enhance the undergraduate science training of potential applicants to Clinical Science graduate programs, be it therefore

Resolved, that the Faculty Senate recommends that the BS in Psychology be granted provisional status in the College of Arts and Sciences
UNIVERSITY FACULTY SENATE FORMS
Revised 3-1-07
Academic Program Approval

This form is a routing document for the approval of new and revised academic programs. Proposing department should complete this form. For more information, call the Faculty Senate Office at 831-2921.

Submitted by: ____________________________ phone number 2385

Action:
__________________________________________________________
(Example: add major/minor/concentration, delete major/minor/concentration, revise major/minor/concentration, academic unit name change, request for permanent status, policy change, etc.)

Effective term
__________________________________________________________ (use format 04F, 05W)

Current degree
__________________________________________________________
(Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)

BS (in addition to BA)

Proposed change leads to the degree of:

__________________________________________________________
(Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)

Proposed name:

Bachelor of Science in Psychology

Proposed new name for revised or new major / minor / concentration / academic unit (if applicable)

Revising or Deleting:

Undergraduate major /
Concentration:

BMAS)

Undergraduate minor:

(Example: African Studies, Business Administration, English, Leadership, etc.)

Graduate Program Policy statement change:

Graduate Program of Study:

(Attach your Graduate Program Policy Statement)
Graduate minor / concentration: 

List program changes for curriculum revisions:

Addition of a Bachelor of Science Degree Program to the existing Bachelor of Arts Degree Program. The BA Program will not change.

List new courses required for the new or revised curriculum:
(Being aware that approval of the curriculum is dependent upon these courses successfully passing through the Course Challenge list. If there are no new courses enter “None”)

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEGREE: BACHELOR OF SCIENCE</td>
<td></td>
</tr>
<tr>
<td>MAJOR: PSYCHOLOGY</td>
<td></td>
</tr>
<tr>
<td>University Requirements:</td>
<td></td>
</tr>
<tr>
<td>ENGL 110     Critical Reading and Writing</td>
<td>03</td>
</tr>
<tr>
<td>MULTICULTURAL COURSE</td>
<td>03</td>
</tr>
</tbody>
</table>

COLLEGE REQUIREMENTS:

Foreign Language
Breadth Requirements
(Minimum of 6 credits each in Groups A & B; 12 credits in Group C)

SECOND WRITING REQUIREMENT

SCIENCE CORE:

Biological Sciences
Take these 3 courses:
Three courses at the 400-level or the 600-level:

Two courses of supervised research:
PSYC 468 Research or
UNIV 401/402 Thesis

A grade of C- or better is required in all BISC, CHEM, PHY, MATH, CISC, and PSYC courses.

* These components supplement the current BA curriculum by adding Science Background, specifying Calculus as a Math requirement, adding to the major one 400 level course, the possible substitution of 600 level courses, and the supervised research requirement. The University Thesis program will substitute for the PSYC 468 requirement. To compensate for the added course requirements, the new degree program reduces the number of credits needed to satisfy the Arts & Sciences General Education requirements by 6 in each of Groups A and B.

**Other affected units:**
(List other departments affected by this new or revised curriculum. Attach permission from the affected units. If no other unit is affected, enter “None”)

Biological Sciences
Chemistry
Physics
Mathematics
Computer Science

**Rationale:**
(Explain your reasons for creating, revising, or deleting the curriculum or program.)

We first explain our goals for this proposed Bachelor of Science Degree Program. Then we describe and explain the details.

**Goals:**

We propose a new Bachelor of Science Degree Program for several reasons. First, we would like to increase the number of students who apply to graduate schools in psychology and the competitiveness of our best students for entrance into top level graduate programs. We can increase the number by emphasizing the science end of psychology and the strong interrelations with other life sciences. Similarly, exposure to more physical science and more opportunities for supervised independent research in our department (e.g., through PSYC 468) will enhance competitiveness. Good graduate programs in Clinical Science now, for instance, recruit students on the basis of their
science interests and demonstrated aptitude, and appreciate the Bachelor of Science degree.

Second, we would like to better meet the needs of students with strong science backgrounds and interests who change majors to Psychology because of changing career aspirations. Providing more opportunities to take upper level and graduate courses and to do supervised research enhances the ability of these students to craft specialty concentrations. The Bachelor of Science Degree Program thus both channels and rewards their achievements. Similarly, students in our undergraduate Neuroscience program, with exceptionally strong science backgrounds, will welcome the new opportunity to earn a Bachelor of Science degree rather than a BA.

More generally, third, we would like to offer dedicated students the opportunity to engage in depth the rigorous scientific approach to Psychology advocated by the faculty. A Bachelor of Science Degree Program serves a rhetorical purpose in communicating that approach and will serve to recruit select students away from the Bachelor of Arts program. As we develop the Bachelor of Science Program, we plan to focus on providing exciting, rigorous, and sequenced research experiences in our laboratories.

Finally, a Bachelor of Science Degree Program dramatically enhances our competitiveness in applying for grants from federal funded programs for undergraduate research and teaching in aspects of psychological science. NIMH, for example, has a program to enhance the undergraduate science training of potential applicants to Clinical Science graduate programs.

Details:

The proposed program requires students to take between 25 and 26 credits in courses constituting the science background (11 in Biology, 8 in Chemistry or Physics, and 6-7 in Computer Science and Math). This total represents an increase of possibly 12 to 13 science credits over the usual number for BA Psychology majors. We also are requiring 6 extra credits in courses in Psychology, with 3 coming from an additional specialty seminar and 6 coming from two semesters of quasi-independent supervised research (PSYC 468). The typical BA major also has 3 credits of electives, which we are eliminating. To partially compensate for the extra credits in the Science background and Psychology components, we propose to reduce the number of credits necessary to satisfy the Arts and Sciences Groups A and B requirements. Halving that number frees up 12 credits.

We expect to graduate about 10 students per year with a BS degree. That figure would constitute about 5% of our current Psychology majors. Many of these 10 students will be in our current Neuroscience interdisciplinary program or will be students interested in Biological Sciences as a major who migrated to Psychology.
Program Requirements:
(Show the new or revised curriculum as it should appear in the Course Catalog. If this is a revision, be sure to indicate the changes being made to the present curriculum.)
DEGREE: BACHELOR OF SCIENCE
MAJOR: PSYCHOLOGY

University Requirements:

ENGL 110 Critical Reading and Writing 03

MULTICULTURAL COURSE 03

COLLEGE REQUIREMENTS:

Foreign Language 00-12
Breadth Requirements 24
(Minimum of 6 credits each in Groups A & B; 12 credits in Group C)

SECOND WRITING REQUIREMENT 03

SCIENCE CORE:

Biological Sciences 11
Take these 3 courses:

BISC 207 Introductory Biology I 04
BISC 208 Introductory Biology II 04
BISC 306 General Physiology 03

BISC 207 will be taken in the Spring semester and 208 in the Fall semester.

Chemistry and Physics 08
Take two courses in sequence:

CHEM 103/104 General Chemistry or 08
PHYS 201/202 Introductory Physics I/II 08

Mathematics 03-04
MATH 221 Calculus or 03
MATH 241 Analytic Geometry and Calculus A 04

Computer Science 03
CISC 105 General Computer Science 03
MAJOR REQUIREMENTS:

PSYC 100  General Psychology  03
PSYC 207  Research Methods  03
PSYC 209  Measurement and Statistics  03

One of the following four courses:  03
PSYC 312  Learning and Motivation
PSYC 314  Brain and Behavior
PSYC 316  Biological Bases of Behavior
PSYC 320  Introduction to Neuroscience

One of the following three courses:  03
PSYC 310  Sensation and Perception
PSYC 340  Cognition
PSYC 344  Psychology of Language

One of the following two courses:  03
PSYC 350  Developmental Psychology
PSYC 380  Psychopathology

One of the following two courses:  03
PSYC 370  Research in Personality
PSYC 390  Social Psychology
PSYC 394  Cultural Psychology

Three courses at the 400-level or the 600-level:  09

Two courses of supervised research:  06
PSYC 468  Research or
UNIV 401/402  Thesis

A grade of C- or better is required in all BISC, CHEM, PHY, MATH, CISC, and PSYC courses.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF.................................................. 124

ROUTING AND AUTHORIZATION:  (Please do not remove supporting documentation.)

Department Chairperson ___________________________ Date ___________________
Karren,

Here is supporting documentation for our revised BS proposal in Psychology, which should be under review by a Senate committee. The revision concerns BISC courses, and I think I needed to get a letter of support from Dan Carson endorsing the changes. Dan Carson is Chair of Biology. Here is the letter of support.

Brian Ackerman
Psychology

-----Original Message-----
From: Dan Carson [mailto:dcarson@UDel.Edu]
Sent: Tuesday, October 17, 2006 4:33 PM
To: Brian P. Ackerman
Subject: Re:

This is acceptable.

Dan

Brian P. Ackerman wrote:

> Dan,
> 
> Dave Usher asked me to communicate our solution to the
> 207/208 problem for our BS degree. If you recall (I'm writing this
note for Committee audiences), University committees reviewing our BS
proposal wanted the students in the program to take BISC 207 and 208
instead of the less demanding BISC 104 and BISC 105 in the original
proposal. When we talked about the substitution last year in
preparing the original BS proposal, we ran into the problem that there were no
seats in BISC 207 that could be allocated to the Psych BS students.

The solution Dave and I just worked out is to stagger the semesters so
that our students take BISC 207 in the Spring semester and then BISC 208 in
the following Fall semester. There is less demand on BISC 207 in the
Spring and hence room for our students. Accordingly, in the new
proposal revision under committee review we have stipulated that BS
majors should take BISC 207 in the Spring semester. The stipulation
only concerns students who come into the BS without having taken BISC
courses. It is likely that most of these students will have already
taken BISC 207 in a previous guise as Biology majors or through the
Neuroscience program.

> Please let me know if this solution is acceptable. I will

> then forward the e-mail to Karren Helsel, who is the Administrative
> Assistant to the Faculty Senate.

http://www.facsen.udel.edu/sites/Colleges/ArtsScience/Psychology/OCT2006Supportletter... 9/17/2012
Thanks,

Brian

--
Daniel D. Carson, Ph.D.
Trustees Distinguished Professor
& Chairman
Dept. Biological Sciences
University of Delaware
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(302) 831-1033 FAX
dcarson@udel.edu