FACULTY CURRICULUM COMMITTEE
SIGNATURE PAGE

- In section A, list ALL of the forms covered by this signature page. If you submit a form that is not listed in A, your proposal will be held back until we receive a new, updated signature page.
- You must obtain the signature of your department chair and dean before submitting your proposal.

A. FORMS COVERED BY THIS SIGNATURE PAGE. List each form you are submitting—for instance, PSYC 383, Course Form; PSYC, Change of Major Form; PSYC, Change of Minor Form.

- BIOL 250, Course Form
- BIOL 314, Course Form
- BIOL 351, Course Form
- BIOL 352, Course Form
- Neuroscience, Change in Minor Form
- Letter of Acknowledgement from Biology Department
- Letter of Acknowledgement from Psychology Department
- Letter of Acknowledgement from Neuroscience Program
- Letter of Acknowledgement from Physics and Astronomy Department

B. APPROVAL AND SIGNATURES.

1. Signature of Department Chair or Program Director:

   [Signature]
   Date: 5/6/15

2. Signature of Academic Dean:

   [Signature]
   Date: 5/6/15

3. Signature of Provost:

   [Signature]
   Date: 9/17/15

4. Signature of Business Affairs (only for course fees):

   [Signature]
   Date: ____________

5. Signature of Curriculum Committee Chair:

   [Signature]
   Date: 9/8/2015

6. Signature of Budget Committee Chair (only for new programs):

   [Signature]
   Date: ____________

7. Signature of Academic Planning Committee Chair (only for new programs):

   [Signature]
   Date: ____________

8. Signature of Faculty Senate Secretary:

   [Signature]
   Date: ____________

Date Approved by Faculty Senate: ____________
FACULTY CURRICULUM COMMITTEE
COURSE FORM

Instructions:
- Please fill out one of these forms for each course you are adding, changing, deactivating, or reactivating.
- Fill out the parts of the form specified in part B. You must do this before your request can move forward!
- Remember that your changes will not be implemented until the next catalog year at the earliest.
- If you have questions, start by checking the instructions on the website. Please feel free to contact the committee chairs with any remaining questions you might have.

A. CONTACT/COURSE INFORMATION.

Name: Jeffrey D. Triblehorn Phone: x35848 Email: triblehornj@cofc.edu

Department or Program: Biology School: School of Sciences and Mathematics

Subject Acronym and Course Number: BIOL 314

Catalog Year in which changes will take effect: FALL 2016

B. TYPE OF REQUEST. Please check all that apply, then fill out the specified parts of the form.

☐ Add a New Course (complete parts C, D, F, G, H, I, J)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old course number)
☐ Course Name
☐ Course Description
☐ Credit/Contact Hours
☒ Restrictions (prerequisites, co-requisites, junior/senior standing, etc.)
☐ Deactivate an Existing Course (complete parts C, D, E, G, I, J)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

I am requesting that BIOL 314 Immunology be included in the list of general electives offered by the Biology Department for the Interdisciplinary Minor in Neuroscience. To make this course more accessible to non-biology majors in the Neuroscience Minor, this change request involves the addition of "or permission of instructor" to the list of prerequisites for this course. Non-biology majors are required to take one of the general elective options offered by the Biology Department as part of the Neuroscience Minor curriculum. Currently, these courses include: BIOL 305 (Genetics), 312 (Molecular Biology), 313 (Cell Biology), 321 (General and Comparative Physiology), 322 (Developmental Biology), and 343 (Animal Behavior) and, if approved, 314 (Immunology). However, BIOL 305 (Genetics) is the only course available to non-Biology majors in the Neuroscience Minor due to prerequisites set for upper level Biology courses for Biology majors (and BIOL 305 Genetics is a prerequisite for almost all Biology courses, 300+ level).

The addition of "or permission of instructor" to the list of pre-requisites for BIOL 314 Immunology is supported by the faculty member that teaches this course (Dr. Ana Zimmerman, Biology; see attached correspondence)

This form was last updated on 12/13/13 and replaces all others.
D. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well other programs and courses. If another program requires the course, you must submit their written acknowledgement with this proposal. Also, the affected program must describe any change in the number of credit hours they require. Include a list of similar courses in other departments and explain any overlap.

This change will make BIOL 314 Immunology more accessible to non-Biology majors that are Neuroscience Minors and provide more viable options besides BIOL 305 Genetics for these students to fulfill the general elective in Biology requirement for the Neuroscience Minor for non-Biology majors.

E. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Biology  School: SSM  Subject Acronym: BIOL  Course Number: 314

Credit hours:    ___ lecture   ___ lab   ___ seminar   ___ independent study
Contact hours:   ___ lecture   ___ lab   ___ seminar   ___ independent study

Course title: Immunology

Course description (maximum 50 words, exactly as it appears in the catalog):
A comprehensive study of the cellular and molecular aspects of the immune response. Subjects covered will include antibody structure and function, immunogenetics, the biology of cell-mediated responses to autoimmunity, immunodeficiencies and the evolution of the immune system.

Restrictions (pre-requisites, co-requisites, majors only, etc.):
Pre-requisites: BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305. One year of chemistry.
Corequisite or prerequisite: MATH 250 or equivalent course in statistics.

Cross-listing, if any:  

Is this course repeatable?  □ yes  ☒ no  If yes, how many total credit hours may the student earn?  __________

F. NEW COURSE INFORMATION. If you are deactivating a course, leave this blank. Otherwise, please fill out all fields. For changed courses, use boldface for the information that is changing.

Department: Biology  School: SSM  Subject Acronym: BIOL  Course Number: 314

Credit hours:    ___ lecture   ___ lab   ___ seminar   ___ independent study
Contact hours:   ___ lecture   ___ lab   ___ seminar   ___ independent study

Course title: Immunology

Course description (maximum 50 words, exactly as it appears in the catalog):
A comprehensive study of the cellular and molecular aspects of the immune response. Subjects covered will include antibody structure and function, immunogenetics, the biology of cell-mediated responses to autoimmunity, immunodeficiencies and the evolution of the immune system.
Restrictions (pre-requisites, co-requisites, majors only, etc.):

Prerequisites: BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305. One year of chemistry.

Corequisite or prerequisite: MATH 250 or equivalent course in statistics or permission of instructor.

If this is a newly-created course, is it intended to be the equivalent of an existing course? □ yes □ no
If so, which course? ________________

If equivalent, will the newly-created course replace the existing course? □ yes □ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ________________
Note: Cross-listed courses are equivalent.

Is this course repeatable? □ yes □ no If yes, how many total credit hours may the student earn? ____

Is there an activity, lab, or other fee associated with this course? □ yes □ no What is the fee? $_____
Note: The Senate cannot approve new fees; Business Affairs will submit any such request to the Board of Trustees. The course can still be created, but the fee will not be attached until the Board has approved it.

G. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

There are no new costs or cost savings associated with this change

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Assessment Method and Performance Expected</th>
</tr>
</thead>
<tbody>
<tr>
<td>What will students know and be able to do when they complete the course?</td>
<td>How will each outcome be measured? Who will be assessed, when, and how often? How well should students be able to do on the assessment?</td>
</tr>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
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<tr>
<td>3.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
</tr>
</tbody>
</table>

This form was last updated on 12/13/13 and replaces all others.
How does this course align with the student learning outcomes articulated for the major, program, or general education? What program-level outcome or outcomes does it support? Is the content or skill introduced, reinforced, or demonstrated in this course?

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration?  ☒ yes  ☐ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.

J. CHECKLIST.

☒ I have completed all relevant parts of the form.

☒ I have attached a cover letter that describes my request and lists all the documents I am submitting.

☐ (For new courses only) I have attached a syllabus.

☒ (For courses used in any way by other departments, including cross-listing) I have attached an acknowledgement from the relevant department.

☐ (For courses intended to fulfill a Gen Ed requirement) I have submitted the proposal to the Gen Ed committee.

☒ I have submitted one Signature Form that lists all of the different forms I am submitting.
Instructions:
- Please fill out all of the portions of the form that are specified in section B. You must do this before your request can move forward!
- Remember that your changes will not be implemented until the next catalog year at the earliest.
- If you have questions, please start by checking the detailed instructions on the website. Please feel free to contact the committee chair with any remaining questions you might have.

A. CONTACT INFORMATION.

Name: Jeffrey D. Triblehorn   Phone: x35848   Email: triblehornj@cofc.edu
School: SSM   Department or Program: Neuroscience
Name and Acronym of Minor: Neuroscience

B. TYPE OF REQUEST. Please check all that apply, then fill out the specified parts of the form.

☐ Add a New Minor (complete all portions)
☒ Change an Existing Minor (complete C, D, E, G, H, and I)
☒ Add existing course or courses to requirements or electives
☐ Add new course(s) to requirements or electives (attach completed course form for each)
☐ Delete courses from requirements or electives
☐ Terminate a Minor (complete, E, G, H, and I)

C. GENERAL INFORMATION.

Number of Current Credit Hours (for existing minors): __24-26____
Number of Proposed Credit Hours (for new or changing minors): __24-26____

Catalog year in which changes will take effect: FALL __2016____

☒ Interdisciplinary (please see guidelines on the Curriculum Committee website and include acknowledgments from relevant departments)

According to academic policy, students may not obtain a major/concentration and minor in the same subject. Will students in specific majors be prohibited from declaring this minor because of this policy?

☐ Yes—Which major(s) or concentration(s)? ______________
☒ No

D. CURRICULUM. For a changed minor, please list every change you are making below AND attach the current catalog entry for this minor (from the Minor Requirements section) with changes marked in RED. Additions should show where the course will be inserted, deletions should be noted by crossing out the course, and moves indicated with arrows. Distinguish between required and elective courses, and note any prerequisites, co-requisites, sequencing, or other restrictions. For each new course, submit the Curriculum Committee’s Course Form and a sample syllabus. For

This form was last updated on 6/6/2013 and replaces all others.
a new program, please submit the complete curriculum and catalog description exactly as they should appear in the catalog.

Adding BIOL 314 Immunology to the list of general electives offered by the Biology Department for the Neuroscience Minor.

E. RATIONALE AND EXPLANATION. Please provide a narrative addressing the request you are making and why you are making it. In addition, for a new minor, please address its objectives, provide evidence of student interest (e.g. interviews with student focus groups, enrollment in special-topics courses in this area), and explain how the minor supports the liberal arts tradition as well as the mission of the institution.

The immune system plays an integral role in the nervous system and its function. Many disorders of the nervous system, such as multiple sclerosis and myasthenia gravis, are autoimmune diseases, where the immune system attacks the body. Immune responses also occur in response to damage to the nervous system, such as head trauma, concussions, and spinal cord injuries, which affect the amount of damage caused as well as hinder recovery from damage. Therefore, knowledge about the immune system is related to the field of neuroscience and BIOL 314 Immunology is appropriate as a general elective option offered by the Biology Department for the Neuroscience Minor.

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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<td>What will students know and be able to do when they complete the minor? Attach a Curriculum Map.</td>
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</tr>
</tbody>
</table>

1.

2.

3.

4.

How does this minor align with the student learning outcomes articulated for the major, program, or general education? What program-level outcome or outcomes does it support? Is the content or skill introduced, reinforced, or demonstrated in this minor?
G. IMPACT ON EXISTING PROGRAMS AND COURSES. Please describe the impact of this request on other programs and courses. If you are deleting a minor, please identify all programs that will be affected. If you are adding or changing a minor, please explain any overlap with existing programs at the College.

Adding BIOL 314 Immunology will add a seventh course to the list of courses offered by the Biology Department that serve as general elective options for the Neuroscience minor (the other six are BIOL 305 Genetics; BIOL 312 Molecular Biology; BIOL 313 Cell Biology; BIOL 321 General and Comparative Physiology, BIOL 322 Developmental Biology, and BIOL 343 Animal Behavior). Only non-Biology majors can use these seven courses to fulfill the two course general elective requirement for the Neuroscience Minor. Based on these two factors, it is not expected that this request will have a significant impact on the Biology Department.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

There are no associated costs or cost savings associated with this request.

I. CHECKLIST.

☒ I have completed all relevant parts of the form.

☒ I have attached a cover letter that describes my request and lists all the documents I am submitting.

☒ I have attached a Course Form for each newly-created or modified course.

☒ (For proposals that affect other departments in any way) I have attached an acknowledgement from the relevant department.

☒ I have provided the complete curriculum for the minor, including the description and course list, exactly as it should appear in the catalog.

☒ I have submitted one Signature Form that lists all of the different forms I am submitting.
ARBC 343  Advanced Arabic Conversation and Composition (3)
ARST 273  Role of Qur'an in Contemporary Islam (3)
HIST 276  Islamic Civilization (3)
HIST 277  Modern Middle East (3)
JWST 220  History of Israel (3)
LTAR 220  Modern Arabic Fiction (3)
LTAR 221  Islamic World Literature (in English Translation) (3)
LTAR 250  Arabic Literature in (English) Translation (3)
LTAR 270  Studies in Arab Cinema (3)
LTAR 350  Arabic Literature in (English) Translation (3)
LTAR 382  Arab Women Writers (3)
LTAR 450  Arabic Literature in (English) Translation (3)
POLI 344  Politics of the Middle East (3)
POLI 365  International Relations of the Middle East (3)
RELS 223  Religions of the Ancient Near East (3)
RELS 235  The Islamic Tradition (3)

Certain approved special topics courses from other departments may also count toward the minor provided at least 1/3 of the content focuses on the Middle East and/or Islamic World. These courses will vary on a semester by semester basis.

Music Minor

Credit Hours: 18

Minor Requirements:

MUSC 230  Masterworks of Music
MUSC 246  Music Theory I (offered every fall semester)
MUSC 382  Music History II (offered every spring semester)

Nine elective hours: other music courses excluding music ensembles

NOTE: For most students, MUSC 146 is recommended as a background for MUSC 246 and may count as an elective toward the total.

Neuroscience Minor

Phone: 843.953.0780

Director: Sorinel Oprisan (Physics)

The neuroscience minor is designed to provide students with a full-spectrum approach to understanding how the brain and nervous system work in the expression of behavior. The field of neuroscience is a hybrid that integrates biology with psychology while drawing from other academic areas. This program fulfills the interdisciplinary nature of the field of neuroscience by allowing students to take neuroscience-related courses in the sciences, social sciences, and humanities in addition to core courses offered by the Departments of Biology and Psychology. In order to adequately prepare students for future careers in neuroscience-related fields, students are required to complete two semesters of independent research on a neuroscience-related topic.

Requirements

Credit Hours: 24-26

All of the following core courses:

15 credit hours

BIOL 351  Principles of Neurobiology
PSYC 351
BIOL 352/PSYC 352 Neurobiology and Behavior
BIOL 447/PSYC 447 Seminar in Neuroscience
BIOL 448/PSYC 448 Bachelor's Essay in Neuroscience (6 hours)

One of the following specialized neuroscience electives: 3 credit hours
BIOL 354 PSYC 356 Behavioral Genetics
BIOL 385 PSYC 386 Cognitive Neuroscience
BIOL 387 PSYC 410 Behavioral Pharmacology
BIOL 353/PSYC 353 Neuropsychology
BIOL 359/PSYC 359 Special Topics II (when content covers neuroscience, see program director)
BIOL 359/PSYC 359 Hormones and Behavior

BIOL 359/PSYC 359 Study Abroad in Neuroscience (4)
BIOL 446/PSYC 446 Special Topics in Neuroscience
PHYS 396/BIOL 396 Biophysical Modeling of Excitable Cells

Two of the following general electives (plus pre-requisites): 6-8 credit hours*

*The two electives must be taken outside the declared major in order to fulfill the interdisciplinary nature of the minor. At least one of these electives must be offered by the Department of Biology or Department of Psychology.

**Anthropology**
ANTH 333 Human Evolution
ANTH 335 Primate Behavior and Evolution
ANTH 342 Human Behavior and Evolution

**Biology**
BIOL 305 Genetics
BIOL 312 Molecular Biology
BIOL 313 Cell Biology
BIOL 321 General and Comparative Physiology
BIOL 322 Developmental Biology
BIOL 343 Animal Behavior

**Chemistry**
CHEM 351 Biochemistry
CHEM 352 Biochemistry II

**Computer Science**
CSCI 470 Principles of Artificial Intelligence

**Data Science**
DATA 101 Introduction to Data Science

**Philosophy**
PHIL 170 Biomedical Ethics
PHIL 260 Philosophy of Biology
PHIL 265 Philosophy of Science
PHIL 330 Philosophy of Mind

**Physics**
PHYS 203 Physics and Medicine
PHYS 270 Nanotechnology in Medicine
PHYS 320  Introduction to Electronics
PHYS 230  Introduction to Modern Physics
PHYS 340  Pholonics

Psychology
PSYC 215  Cognitive Psychology
PSYC 221  Abnormal Psychology
PSYC 216  Sensation and Perception
PSYC 318  Comparative Psychology

NOTE: Only one course from the minor can be applied towards the student's major.

Philosophy Minor

Credit Hours: 18

Minor Requirements:

Required courses: PHIL 101 Introduction to Philosophy and PHIL 120 Symbolic Logic

One course selected from:

PHIL 201  History of Ancient Philosophy
PHIL 202  History of Modern Philosophy
PHIL 304  Nineteenth-Century Philosophy
PHIL 305  Topics in the History of Philosophy
PHIL 306  Twentieth-Century Analytic Philosophy
PHIL 307  Twentieth-Century Continental Philosophy
PHIL 310  American Philosophy

Nine additional elective hours in philosophy, six of which must be at or above the 200-level.

NOTE: All philosophy courses except PHIL 120 satisfy the minimum degree requirement in the humanities.

See course listings for a complete list of courses offered.

Physics Minor

Credit Hours: 18

Minor Requirements:

Core courses:

PHYS 111/111L  General Physics I (with laboratory)
PHYS 112/112L  General Physics II (with laboratory)

NOTE: Under special circumstances, with department approval, and the student having earned grades of "B" or better, PHYS 101 and 102 (with associated labs) may replace PHYS 111/111L and 112/112L.

Electives:

PHYS 150  Physics of Sound and Music
PHYS 203  Physics and Medicine
PHYS 230  Introduction to Modern Physics I
PHYS 260  NASA Space Mission Design
PHYS 260L  NASA Space Mission Design Lab
PHYS 270  Nanotechnology in Medicine
PHYS 298  Special Topics*
PHYS 301  Classical Mechanics
PHYS 302  Classical Mechanics
PHYS 308  Atmospheric Physics
April 22, 2015

Dear Faculty Curriculum Committee

The Neuroscience Steering Committee reviewed and supported the course changes to BIOL 351 and BIOL 352 and also adding BIOL 314 Immunology to the list of general electives for the Neuroscience Minor.

Sincerely

[Signature]

Dr. Jeffrey D. Triblehorn
Assistant Professor
Department of Biology
Director, Program in Neuroscience
triblehornj@cofc.edu
(843) 953-5848
Hi Jeff,

I am pleased to inform you that the Department of Biology, at our departmental meeting on 04-15-2015, discussed and unanimously approved the following changes to courses in the Neuroscience curriculum:

1. Changes of Name for Biol 351 (was "principles of Neurobiology," becomes "Cellular and Molecular Neuroscience") and Biol 352 (was "Neurobiology and Behavior," becomes "Systems and Integrative Neuroscience");
2. Addition of Biol 314 Immunology to the list of approved electives for Neuroscience minors, and add "Permission of Instructor" to its course pre-/corequisite description.

Sincerely,
Jaap

Jaap Hillenius
Professor & Chair
Department of Biology
College of Charleston
66 George Street
Charleston, SC 29424
USA

T: (843) 953-5504
F: (843) 953-5453
E: hilleniusw@cofc.edu

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From: <Triblehorn>, Jeffrey D <Triblehornj@cofc.edu>
Date: Friday, May 1, 2015 10:36 AM
To: Willem Jacob Hillenius <hilleniusw@cofc.edu>
Subject: letter of support for curriculum paperwork

Hi Jaap

I am still waiting on a letter of support from Psychology (they approved the changes as well). Could you provide me with a letter to put in the Biology version of the changes and I can pass that along to Chad for the Psychology version of the changes? Alternatively, if you prefer to send the letter to Chad Galuska directly and insert your letter in the Biology packet directly, that will be OK too.

I have my exam until 11am, but will be away from campus and out of touch from email for the rest of the day.

Thank you

Jeff