Program Committee Report

Meeting: Friday, September 21, 2018, 11:00 AM – 12:00 PM, 3020B Steele Building
Committee Members Present: Rita Balaban, Lauren Leve, Ken Shugart, Nick Siedentop

1. **New program: Minor in Translation and Interpreting,** Department of Romance Studies.
   The committee discussed the merits of the new minor and developed recommendations to improve the proposal. The department will submit a final version to the Administrative Boards for review in November 2018. The goal is to implement the new minor in fall 2019.

2. **Curriculum revision: Major in Environmental Health Sciences, B.S.P.H.**
   Approved, effective fall 2019. See below for proposal details.

3. **Curriculum revision: Major in Mathematics, B.A.**
   Approved, effective fall 21019. See below for proposal details.

4. **Curriculum revision: Major in Neuroscience, B.S.**
   Approved, effective fall 2018. See below for proposal details.

5. The committee reviewed its charge and discussed projects for the 2018-19 academic year, including developing guidelines for creating new undergraduate minors.

UNC | GILLINGS SCHOOL OF GLOBAL PUBLIC HEALTH

BARBARA J. TURPIN
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MEMORANDUM

September 7, 2018

To: Nick Siedentop, Office of Undergraduate Curricula

From: Barbara Turpin, Chair, Department of Environmental Sciences and Engineering

Subject: Curriculum change request for Environmental Health Sciences BSPH program

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Department of Environmental Sciences and Engineering (ESE) wishes to implement a curriculum change for the BSPH program in order to come into compliance with the new CEPH accreditation requirements. ESE and the Gillings School of Global Public Health Academic Programs Committee have approved new discipline-specific competencies. The curricular changes will ensure that every BSPH student in Environmental Health Sciences is taught and assessed on each of these competencies.

All students will continue to take the General Education Requirements, Basic Science Requirements, Skills, and Public Health Core. **We are changing the Environmental Health Core and adjusting the number of Advanced Electives as follows**. Column 1 shows the ***current*** departmental competencies and required courses in the discipline. Column 2 shows the **new** required courses.

1	2
Old Environmental Health Core	**New Environmental Health Core**
ENVR 230: Environmental Health Issues or ENVR 430: Health Effects of Environmental Agents	ENVR 230: Environmental Health Issues (fall) ENVR 430: Health Effects of Environmental Agents (fall) ENVR 403 Environmental Chemistry Processes (spring) ENVR 205 Engineering Tools for Environmental Problem Solving (spring) ENVR 698 Capstone or ENVR 593 Practicum or ENVR 692H BSPH honors thesis

1	2
Old Advanced Electives	**New Advanced Electives**
General track: Four advanced undergraduate or graduate level courses (400 or higher) relevant to Environmental Health allow in-depth study of specific aspects of Environmental Health. ***Environmental Biology Track*:** Select 4 from: ENVR 411, ENVR 412, ENVR 421, ENVR 423, ENVR 425, ENVR 433, ENVR 442, ENVR 468, ENVR 610, ENVR 630, ENVR 640 ***Environmental Chemistry Track*:** Select 4 from: ENVR 403, ENVR 416, ENVR 419, ENVR 451, ENVR 575, ENVR 650, ENVR 675 ***Environmental Physics Track*:** Select 4 from: ENVR 403, ENVR 416, ENVR 451, ENVR 452, ENVR 453, ENVR 666, ENVR 671, ENVR 672, ENVR 675	***General track:*** Two advanced undergraduate or graduate level courses (400 or higher) relevant to Environmental Health allow in-depth study of specific aspects of Environmental Health. ***Environmental Biology Track*:** Select 2 from: ENVR 411, ENVR 412, ENVR 421, ENVR 423, ENVR 425, ENVR 433, ENVR 442, ENVR 468, ENVR 470, ENVR 610, ENVR 630, ENVR 640, ENVR 682 ***Environmental Chemistry Track*:** Select 2 from: ENVR 416, ENVR 419, ENVR 451, ENVR 575, ENVR 650, ENVR 675 ***Environmental Physics Track*:** Select 2 from: ENVR 416, ENVR 451, ENVR 453, ENVR 666, ENVR 671, ENVR 672, ENVR 675

Change in Environmental Health Sciences BSPH Competencies
For Fall 2019

ESE is requesting approval to implement a curriculum change in the BSPH program in order to come into compliance with the new CEPH accreditation requirements. Below we show the current and proposed discipline-specific competencies for the Environmental Health Sciences BSPH and the courses in which they are taught and assessed. To ensure all students meet all competencies, we wish to require all students to take the courses in column 2. Note that CEPH requires discipline-specific competencies to be different from the CEPH foundational competencies, which they would not be without this change.

1	2
Current (old) competencies **Met by courses (course titles)**	**Proposed competencies** **Met by courses (course titles)**
1. Demonstrate basic knowledge in the fundamental sciences and mathematics. Undergraduate basic science requirements	1. Define current major issues in environmental health, sciences and engineering. ENVR 230 (fall) (Environmental Health Issues)
2. Describe the relationship between public health and environmental sciences and engineering. ENVR 230: Environmental Health Issues or ENVR 430: Health Effects of Environmental Agents	2. Provide quantitative answers to complex environmental questions and describe the potential underlying uncertainties. ENVR 205 (spring) (Engineering Tools for Environmental Problem Solving)
3. Identify major issues in environmental sciences and engineering. ENVR 230 (Environmental Chemistry Processes) or ENVR 430 (Health Effects of Environmental Agents)	3. Describe linkages between sources of environmental contaminants, ambient concentrations, human exposures. ENVR 403 (spring) (Environmental Chemistry Processes)
4. Demonstrate broad knowledge in the core fields of public health. ENVR 230, ENVR 430, BIOS 600 (Principles of Statistical Inference), EPID 600 Principles of Epidemiology, HBEH 600 Social and Behavioral Sciences in Public Health), HPM 600 (Introduction to Health Policy and Management)	4. Describe the mechanistic basis for environmentally-induced disease and methods for prevention. ENVR 430 (fall) (Health Effects of Environmental Agents)

5.Demonstrate written and oral communication skills related to environmental sciences and engineering issues within a public health context. ENVR/ENEC 698 (Analysis and Solutions) ENVR 593 (Undergraduate Practicum in Environmental Health Sciences) ENVR 230, ENVR 430	5.Demonstrate written and oral communication skills related to environmental sciences and engineering issues within a public health context. Capstone or practicum/ internship or BSPH honors thesis

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September 11, 2018

Mr. Nick Siedentop
Curriculum Director
Undergraduate Curricula
3021 Steele Building
CB# 3504

Dear Mr. Siedentop:

The Department of Mathematics wishes to make the following change to the Bachelor of Arts Major.

Currently, the course above 500 listing reads:

At least three more MATH courses numbered above 500, including sequence MATH 383L + MATH 528L + MATH 529L

However, we would like to clarify that by changing the language to:

At least three more MATH courses numbered above 500. For this purpose, taking the three lab courses MATH383L+MATH528L+MATH529L counts as one 500 level course.

Thank you very much for your consideration on this matter.

Sincerely,

Richard McLaughlin
Chair, Department of Mathematics

Neuroscience Major, B.S. – Requirement Updates
Report to Administrative Boards at September 2018 Meeting

These changes have been updated in the 2018-2019 Undergraduate Catalog:
http://catalog.unc.edu/undergraduate/programs-study/neuroscience-major-bs/#requirementstext

Change	Reason	Approval
Remove MATH 241	Course is no longer taught.	Jeremy Marzuola and Rich Mclaughlin, 5/15/2018
Remove MATH 283	Course is no longer taught.	Jeremy Marzuola and Rich Mclaughlin, 5/15/2018
Add MATH 233 – Calculus of Functions of Several Variables	This course is a prerequisite to several other MATH and STOR courses included in the major. MATH 233 gives students a fundamental insight into higher dimensions in terms of visualization, calculation, and modeling.	Jeremy Marzuola and Rich Mclaughlin, 5/15/2018
Add MATH 381 – Discrete Mathematics.	In the hierarchy of discrete math courses in the College, MATH 381 (prereq MATH 232 – already included in the major) is accepted in the MATH, COMP, and STOR majors. As such, this will be helpful for students who are computationally oriented toward neuroscience questions. Students may take one of COMP 283, MATH 381, or STOR 215.	Jeremy Marzuola and Rich Mclaughlin, 5/15/2018
Add MATH 547 – Linear Algebra	Linear algebra component would be very important for statistics, data analysis, computation, modeling, etc.	Recommended by Jeremy Marzuola, 5/15/2018.
Remove MATH 406	This course has not been offered in some time.	Recommended by Jeremy Marzuola, 5/15/2018.
Add MATH 535 – Introduction to Probability	This course is cross-listed with STOR 435 which was already approved as an elective.	N/A
Add BIOL 205 – Cellular and Developmental Biology	This course is a prerequisite for several other biology courses included as electives in the neuroscience major. This will help students who are interested in approaching neuroscience questions from a neurobiological perspective.	Victoria Bautch, 5/17/2018.

Change	Reason	Approval
Remove BIOL 211 – Introduction to Research in Biology	This course is not being taught. Students must take PSYC 270.	Victoria Bautch, 5/17/2018.
Add COMP 283 (Discrete Structures) to the MMS Elective list.	The prerequisite (MATH 231) is required for the major and it may be beneficial for students who are computationally oriented toward neuroscience questions. Students may take one of COMP 283, MATH 381, or STOR 215.	Approved by Diane Pozefsky, 5/15/2018 (pending memo from Kevin Jeffay).

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KEVIN JEFFAY
Gillian Cell Distinguished Professor and Chair

May 22, 2018

Nick Siedentop
Curriculum Director for Undergraduate Curricula
Office of Undergraduate Education
3010 Steele, CB #3504,
Carolina Campus

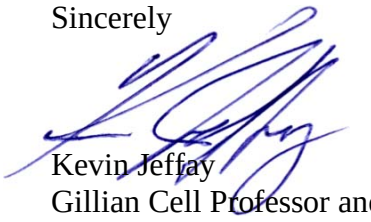
Re: Item for the Administrative Boards of the College of Arts and Sciences and the General College

Dear Nick,

Computer Science was recently approached by the Department of Psychology and Neuroscience with a request to list COMP 283 (Discrete Structures) as an acceptable elective course for the neuroscience major.

This letter serves to document that the Department of Computer Science supports Psychology and Neuroscience's proposal to list COMP 283 as an elective course and that we will allow their students to enroll in the course.

Sincerely



Kevin Jeffay
Gillian Cell Professor and Chair