

TO: College of Arts and Sciences Curriculum Committee

FROM: Jeff Goodman, Chair of Psychology

DATE: January 21, 2021

RE: Program Change

We request implementation of the following program change with the next possible *Catalog*.

Name of Program: Neuroscience Comprehensive Major

Program Code: 445-001

Date of Department/Program Approval: 12/16/2020

From Current Catalog Web Page <https://catalog.uwec.edu/undergraduate/arts-sciences/interdisciplinary/neuroscience-comprehensive-major-ba-bs/>

To: Please change the following text in the major.  
This was done with a cut and paste from online catalog <https://catalog.uwec.edu/undergraduate/arts-sciences/interdisciplinary/neuroscience-comprehensive-major-ba-bs/> and then track changes.

- 1) We have added the more commonly completed Chem 105/106/109 sequence as an equivalent to CHEM 115.
- 2) We have added an option for students to complete either a series of advanced statistics courses OR the organic chemistry with laboratory sequence.
- 3) The elective courses for the neuroscience major and minor (including research and student academic apprentice options) will more closely match.

Why: Addition of new course options to the major and expanded options as noted in items 1-3 above.

Sixty semester credits, including:

Core Courses:

BIOL 221      Foundations of Biology I  
BIOL 222      Foundations of Biology II  
BIOL 223      Foundations of Biological Inquiry

Choose ONE set of the following chemistry courses:

CHEM 105      General Chemistry I Lecture  
& CHEM 106      General Chemistry I Lab  
& CHEM 109      General Chemistry II with Lab

OR

CHEM 115 Chemical Principles

IDIS 125      Brain: Introduction to Neuroscience  
PHIL 343      Philosophy of the Mind  
MATH 246      Elementary Statistics

Choose ONE set of the following courses:

MATH 441      Linear Regression, with Time Series  
& MATH 443      Experimental Design and Analysis  
& MATH 447      Nonparametric Statistics

OR

CHEM 325      Organic Chemistry I with Laboratory  
& CHEM 326      Organic Chemistry II with Laboratory

A minimum of four neuroscience core courses chosen from:

BIOL 350      Systems Neuroscience  
BIOL 351      Systems Neuroscience Lab  
BIOL 358      Cellular and Developmental Neuroscience  
PSYC 374      Cognitive Neuroscience  
PSYC 362      Clinical Neuroscience  
PSYC 387      Behavioral Neuroscience

Remaining credits chosen from elective courses below:

BIOL 305      Molecular and Cell Biology  
BIOL 319      Animal Form and Function  
BIOL 323      Genetics  
BIOL 324      Genetics Inquiry  
BIOL 359      Biology of Stress  
BIOL 365      Animal Behavior  
BIOL 380      Endocrinology  
BIOL 405      Advanced Cell and Molecular Lab  
BIOL 409      Molecular Genetics  
BIOL 460      Developmental Biology

~~CHEM 325 Organic Chemistry I with Laboratory~~  
~~CHEM 326 Organic Chemistry II with Laboratory~~  
CHEM 352 Fundamentals of Biochemistry  
CSD 440 Neurological Aspects of Communication & Cognition  
MUSI 491 Special Topics (when offered as Neurology of Music)  
PHYS 211 General Physics  
PHYS 212 General Physics  
PSYC 363 Psychology of Addictions  
PSYC 366 Statistical Method in Psychology II  
PSYC 372 Individual Differences and Behavior Genetics  
PSYC 376 Psychology of Perception  
PSYC 377 Psychopharmacology  
PSYC 379 Cognitive Psychology  
~~PSYC 396 Research Apprentice in Psychology~~

Up to three credits of approved neuroscience-related research or academic experience from the following courses may be applied to the major with the consent of the advisor:

BIOL 296 Student Academic Experience  
BIOL 399 Independent Study - Juniors  
BIOL 496 Student Academic Apprenticeship in Biology  
BIOL 497 Senior Research Presentation  
BIOL 499 Independent Study -Seniors  
PSYC 396 Research Apprentice in Psychology  
PSYC 397 Student Academic Apprenticeship in Psychology  
PSYC 399 Independent Study - Juniors  
PSYC 499 Independent Study - Seniors

c: David Jewett, Psychology Department Neuroscience programs coordinator