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