PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

DEPARTMENT Psychology
EFFECTIVE SESSION Fall 2014

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

[X] 1. New course with supporting documents
[ ] 2. Add existing course offered at another campus
[ ] 3. Expiration of a course
[ ] 4. Change in course number
[ ] 5. Change in course title
[ ] 6. Change in course credit/type

[ ] 7. Change in course attributes (department head signature only)
[ ] 8. Change in instructional hours
[ ] 9. Change in course description
[ ] 10. Change in course requisites
[ ] 11. Change in semesters offered (department head signature only)
[ ] 12. Transfer from one department to another

PROPOSED:

Subject Abbreviation: PSY
Course Number: 43000
Long Title: Advanced Psychobiology
Short Title: Advanced Psychobiology

EXISTING:

Subject Abbreviation
Course Number

TERMS OFFERED

Check All That Apply:

× Fall  [ ] Spring  [ ] Summer

CAMPUS(ES) INVOLVED

- Calumet
- Cont Ed
- Ft. Wayne
- N. Central
- Tech Statewide
- W. Lafayette
- Indianapolis

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

CREDIT TYPE

1. Fixed Credit: Cr. Hrs.
   - Yes
   - No

2. Variable Credit Range:
   - Minimum Cr. Hrs.
   - (Check One) To
     - Yes
     - No

3. Equivalent Credit: Yes

COURSE ATTRIBUTES: Check All That Apply

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
4. Credit by Examination
5. Fees:
   - Lab
   - Rate Request
   - Coop

Institution:

% of Credit

Type:

Offered

Allocated

Schedule Type:

Lecture
Recitation
Presentation
Laboratory
Lab Prep
Studio
Distance
Clinic
Experimental
Research
Ind. Study
Prac/Observe

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):
This course provides students with the opportunity to gain hands-on laboratory experience with several of the methods used to investigate neural functions. The course will begin with basic anatomy and physiology of the nervous system, and will finish with recent studies of the relation between sensory and cognitive functions. Prerequisites: PSY 20300 with grade of C- or higher, and senior standing or 33 credits in psychology.

*COURSE LEARNING OUTCOMES:
- Understand basic anatomy and physiology of the nervous system.
- Understand complex behavior and cognition as products of neural activity.
- Understand the methods used to investigate neural processes.

Calumet Department Head
Date
Calumet School Dean
Date

Ft. Wayne Department Head
Date
Ft. Wayne School Dean
Date

Indianapolis Department Head
Date
Indianapolis School Dean
Date

North Central Faculty Senate Chair
Date
Vice Chancellor for Academic Affairs
Date

West Lafayette Department Head
Date
West Lafayette College/School Dean
Date
West Lafayette Registrar
Date

OFFICE OF THE REGISTRAR
TO: COAS Curriculum Committee
FROM: Carol Lawton, Chair, Psychology
RE: New Course Request: PSY 43000
DATE: November 18, 2013

The Psychology Department requests approval for a new 3-credit course, PSY 43000-Advanced Psychobiology. This lecture/lab course will be used as an offering in the capstone area of the psychology major (the capstone will be a requirement for psychology majors beginning in Fall 2014, pending approval). The syllabus for the proposed PSY 43000 is attached.
PSY 43000 Advanced Psychobiology

Instructor: Ryan M. Yoder, Ph.D.
Phone: (260) 481-6210
Class Meetings: TBA
Teaching Assistant: TBA

Required Readings:

Additional materials will be available on Blackboard.

Course Description and Goals
In this course, our goal is to understand behavior and cognition as products of neural activity. The course will begin with basic anatomy and physiology of the nervous system, and end with the neural bases of complex behaviors. After successful completion of this course, you will have built upon the topics of PSY 329, increasing your knowledge of nervous system function and the methods used to investigate neural processes.

Lectures
Course lectures will include various classroom activities and/or a detailed discussion of select topics related to the associated readings. The lecture is not intended to replace readings or to emphasize exam topics. You are responsible for learning both the lecture and text material.

Exams
There will be three exams from the lecture and two practical exams for the lab. The exams will include items which will be covered in the assigned readings and/or in the lecture. The lab practicals will include anatomical identification (exam 1) and methodological/interpretation items (exam 2). Additional details of exam content/format may be announced at the beginning of the course.

Research Report
A research report must be completed in order to receive a grade in the course. This report will give you an opportunity to explore a specific topic in neuroscience (topic subject to instructor approval). The paper will consist of approximately 8-12 pages of text, in APA (6th ed.) format, with an Appendix that describes the methods you used to obtain your information. Late reports will not be accepted for any reason, and will receive a zero – please start your report early in case of unforeseen circumstances.

Your final grade is based on 1000 possible points, with the following point distribution:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>Exams (#1-3 = 150 pts. each)</td>
<td>450</td>
</tr>
<tr>
<td>Lab Practical (100 pts. each)</td>
<td>200</td>
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<tr>
<td>Lab Anatomy Drawings</td>
<td>150</td>
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<tr>
<td>Research Report</td>
<td>200</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>1000</strong></td>
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</table>

*** No grades or graded material will be distributed to you via telephone or email, or to any other individual. You must see me in person, log into your Blackboard account, or visit the registrar for all grade information. If you see me in person, please bring a photo ID in case I have not yet learned your name.***

Final Letter Grades
A  
B = 795-894.9  
C = 695-794.9  
D = 595-694.9  
F ≤ 594.9

1/3
Department and University Policies, etc.

Graduation Requirement for the Psychology Department
All graduating psychology seniors are required to submit one research paper at the time they register for the exit exam. Preferably, this will be a paper written during the senior year. The students will be asked to submit the paper that they believe best represents their abilities to locate and use information on a topic in psychology, to think critically, to understand the scientific approach, to write clearly, and to use APA style. Save your papers so you can submit your favorite one when it's time to graduate.

Ethical Conduct — Honesty and integrity are expected during all interactions involving course work and relations between you, other students, faculty, etc. College disciplinary procedures will be used as applicable.

Academic Honesty — The work you produce in this course must be your own. The penalty for cheating (or helping another to cheat), copying, and/or plagiarism can result in immediate failure for the assignment and/or course (notification is sent to the Dean of Students). In severe cases, one can be expelled from the University.

Deadlines:
- TBA – Audit-to-Credit Deadline
- TBA – Pass/Not Pass Deadline
- TBA – Withdrawal Deadline

University Resources

Center for Academic Support and Advancement (CASA): Kettler G23
Tutoring: You are allowed two hours of tutoring per week at no charge for many of the courses offered at IPFW. You should make an appointment prior to receiving assistance.
Other Services: CASA “offers free help in developing reading, writing, math, and study skills, includes note taking, textbook reading, test taking, and other skills that contribute to learning.” Web Site: new.ipfw.edu/casa
Writing Clinic: “Every writer needs a reader.” They will work with you on any university related writing project. Scheduling an appointment can be done online through TutorTrac (see Web Site: http://new.ipfw.edu/offices/casa/writing). Location - Kettler G19.

Services for Students with Disabilities (SSD): Walb 113
If you have a disability and need assistance, special arrangements can be made to accommodate most needs. Contact the Director of Services for Students with Disabilities (481-6658), as soon as possible to work out the details. Once the Director has provided you with a letter attesting to your needs for modification, bring the letter to me. For more information, please visit the web site for SSD at http://new.ipfw.edu/disabilities/.

Helmeke Library Hours: (http://library.ipfw.edu/)
- M-TH: 8:00-11:00
- Friday: 8:00-6:00
- Saturday: 8:30-5:30
- Sunday: noon – 11:00 p.m.
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Assigned Reading</th>
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<tbody>
<tr>
<td>Aug 27</td>
<td>Introduction to Course</td>
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</tr>
<tr>
<td>Aug 29</td>
<td>Lab</td>
<td>• Introduction</td>
</tr>
<tr>
<td>Sep 3</td>
<td>Brain &amp; Behavior</td>
<td>• Ch. 1</td>
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<tr>
<td>Sep 5</td>
<td>Lab</td>
<td>• Gross Brain Anatomy</td>
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<tr>
<td>Sep 10</td>
<td>Nerve Cells and Neural Circuitry</td>
<td>• Ch. 2</td>
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<tr>
<td>Sep 12</td>
<td>Lab</td>
<td>• Major Fiber Tracts</td>
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<tr>
<td>Sep 17</td>
<td>Cells of the Nervous System</td>
<td>• Ch. 4</td>
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<tr>
<td>Sep 19</td>
<td>Lab</td>
<td>• Brain Regions</td>
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<tr>
<td>Sep 24</td>
<td>Ion Channels</td>
<td>• Ch. 5</td>
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<tr>
<td>Sep 26</td>
<td>Lab</td>
<td>• Brain Regions</td>
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<td>Oct 1</td>
<td>Membrane Potential</td>
<td>• Ch. 6</td>
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<td>Oct 3</td>
<td>Lab</td>
<td>• Brain Regions</td>
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<td>Oct 8</td>
<td>Action Potential</td>
<td>• Ch. 7</td>
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<td>Oct 10</td>
<td>Exam #1 – Ch. 1, 2, 4, 5, 6, 7</td>
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<td>Oct 15</td>
<td>Synaptic Transmission</td>
<td>• Ch. 8</td>
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<td>Oct 17</td>
<td>Lab</td>
<td>• Brain Regions</td>
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<td>Oct 22</td>
<td>Directly Gated Transmission</td>
<td>• Ch. 9</td>
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<td>Oct 24</td>
<td>Lab</td>
<td>• Practical Exam #1</td>
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<td>Oct 29</td>
<td>Transmitter Release</td>
<td>• Ch. 12</td>
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<tr>
<td>Oct 31</td>
<td>Lab</td>
<td>• Histological Techniques -- Nissl stain</td>
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<td>Nov 5</td>
<td>Neurotransmitters</td>
<td>• Ch. 13</td>
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<td>Nov 7</td>
<td>Lab</td>
<td>• Physiology – Single-Unit Recording</td>
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<td>Nov 12</td>
<td>Exam #2 – Chapters 8, 9, 12, 13</td>
<td>• Behavior 1</td>
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<td>Nov 14</td>
<td>Lab</td>
<td>• Ch. 15</td>
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<tr>
<td>Nov 19</td>
<td>Organization of Nervous System</td>
<td>• Behavior 2</td>
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<td>Nov 21</td>
<td>Lab</td>
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<tr>
<td>Nov 26</td>
<td>Spatial Cognition</td>
<td>• Ch. 17</td>
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<td>RESEARCH REPORT DUE</td>
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<td>Nov 28</td>
<td>Lab</td>
<td>• Vestibular Involvement in Spatial Cognition</td>
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<td>Dec 3</td>
<td>Vestibular System</td>
<td>• Ch. 40</td>
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<td>Dec 5</td>
<td>Lab</td>
<td>• Practical Exam #2</td>
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<td>Dec 10</td>
<td>Learning &amp; Memory</td>
<td>• Ch. 65</td>
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<td>Dec 12</td>
<td>Final Exam – Chapters 15, 17, 40, 65</td>
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