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OFFICE OF THE
SENATE COUNCIL

1. General Information

1a. Submitted by the College of: ARTS & SCIENCES

Date Submitted: 10/30/2014

1b. Department/Division: Psychology

1c. Contact Person

Name: Mark Prendergast

Email: prender@uky.edu

Phone: 7-6120

Responsible Faculty ID (if different from Contact)

Name:

Email:

Phone:

1d. Requested Effective Date: Semester following approval

1e. Should this course be a UK Core Course? No

2. Designation and Description of Proposed Course

2a. Will this course also be offered through Distance Learning?: No

2b. Prefix and Number: PSY 393

2c. Full Title: Research in Neuroscience

2d. Transcript Title:

2e. Cross-listing:

2f. Meeting Patterns

RESEARCH: 3

2g. Grading System: Letter (A, B, C, etc.)

2h. Number of credit hours: 1-3

2i. Is this course repeatable for additional credit? Yes

If Yes: Maximum number of credit hours: 12

If Yes: Will this course allow multiple registrations during the same semester? No

2j. **Course Description for Bulletin:** An independent research project in an area of neuroscience under the direction of a faculty mentor. A research contract must be signed by the student and the faculty research mentor. May be repeated to a maximum of 12 credits, in combination with other independent research credit hours. They should be capable of doing "independent research" in the sense that they can conduct the experiments with little direct supervision. Students are expected to become familiar with related research in the current literature by regularly reading scientific journals.

2k. **Prerequisites, if any:** PSY 312, BIO 302 or equivalent

2l. **Supplementary Teaching Component:**

3. **Will this course taught off campus?** No

If YES, enter the off campus address:

4. **Frequency of Course Offering:** Summer,

Will the course be offered every year?: Yes

If No, explain:

5. **Are facilities and personnel necessary for the proposed new course available?:** Yes

If No, explain:

6. **What enrollment (per section per semester) may reasonably be expected?:** 30

7. **Anticipated Student Demand**

Will this course serve students primarily within the degree program?: No

Will it be of interest to a significant number of students outside the degree pgm?: Yes

If Yes, explain: It is anticipated that this course will be of interest to students enrolled in a proposed new major in Neuroscience

8. **Check the category most applicable to this course:** Relatively New – Now Being Widely Established,

If No, explain:

9. **Course Relationship to Program(s).**

a. **Is this course part of a proposed new program?:** No

If YES, name the proposed new program:

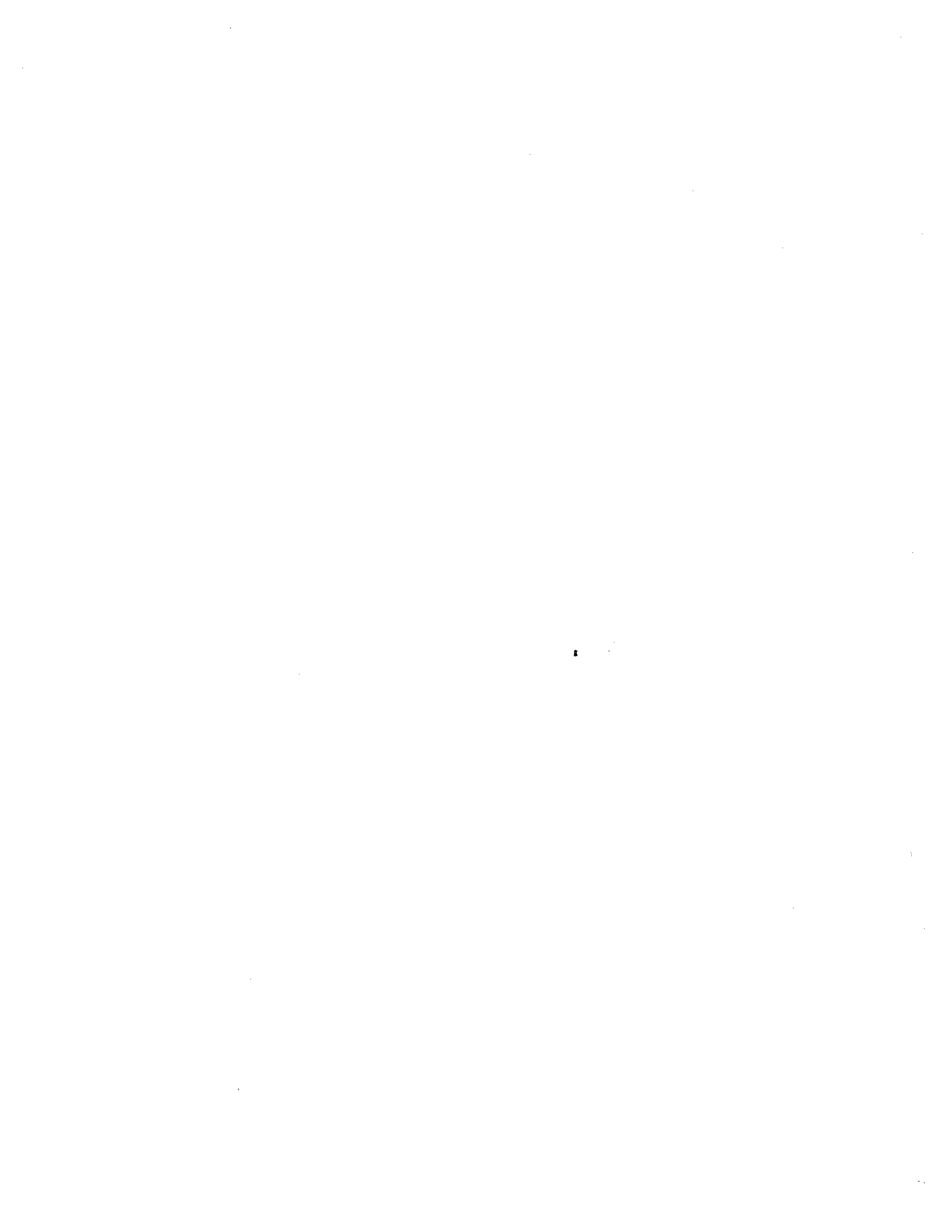
b. **Will this course be a new requirement for ANY program?:** No

If YES, list affected programs:

10. **Information to be Placed on Syllabus.**

a. **Is the course 400G or 500?:** No

b. **The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from 10.a above) are attached:** Yes



Distance Learning Form

Instructor Name:

Instructor Email:

Internet/Web-based: No

Interactive Video: No

Hybrid: No

1. How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?

2. How do you ensure that the experience for a DL student is comparable to that of a classroom-based student's experience? Aspects to explore: textbooks, course goals, assessment of student learning outcomes, etc.

3. How is the integrity of student work ensured? Please speak to aspects such as password-protected course portals, proctors for exams at interactive video sites; academic offense policy; etc.

4. Will offering this course via DL result in at least 25% or at least 50% (based on total credit hours required for completion) of a degree program being offered via any form of DL, as defined above?

If yes, which percentage, and which program(s)?

5. How are students taking the course via DL assured of equivalent access to student services, similar to that of a student taking the class in a traditional classroom setting?

6. How do course requirements ensure that students make appropriate use of learning resources?

7. Please explain specifically how access is provided to laboratories, facilities, and equipment appropriate to the course or program.

8. How are students informed of procedures for resolving technical complaints? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Information Technology Customer Service Center (<http://www.uky.edu/UKIT/>)?

9. Will the course be delivered via services available through the Distance Learning Program (DLP) and the Academic Technology Group (ATL)? NO

If no, explain how student enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.

10. Does the syllabus contain all the required components? NO

11. I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:

SIGNATURE|RLORCH|Robert F Lorch|PSY 393 NEW Dept Review|20141030

SIGNATURE|ACSI222|Anna C Harmon|PSY 393 NEW College Review|20150203

SIGNATURE|JMETT2|Joanie Eit-Mims|PSY 393 NEW Undergrad Council Review|20150402

Courses	Request Tracking
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New Course Form

<https://myuk.uky.edu/sap/bc/soap/rfc?services=>

[Open in full window to print or save](#)

Generate fi

Attachments:

Browse...		Upload File
ID	Attachment	
Delete	3950	PSY 393 Research in Neuroscience syllabus.docx
<input type="button" value="First"/> <input type="button" value="1"/> <input type="button" value="Last"/>		

Select saved project to retrieve...

Get New

(*denotes required fields)

1. General Information

- a. * Submitted by the College of: Submission Date: 10/30/2014
- b. * Department/Division:
- c.
- * Contact Person Name: Email: Phone:
- * Responsible Faculty ID (if different from Contact): Email: Phone:
- d. * Requested Effective Date: Semester following approval OR Specific Term/Year
- e. Should this course be a UK Core Course? Yes No
- If YES, check the areas that apply:
- Inquiry - Arts & Creativity Composition & Communications - II
- Inquiry - Humanities Quantitative Foundations
- Inquiry - Nat/Math/Phys Sci Statistical Inferential Reasoning
- Inquiry - Social Sciences U.S. Citizenship, Community, Diversity
- Composition & Communications - I Global Dynamics

2. Designation and Description of Proposed Course.

- a. * Will this course also be offered through Distance Learning? Yes No
- b. * Prefix and Number:
- c. * Full Title:
- d. Transcript Title (if full title is more than 40 characters):
- e. To be Cross-Listed ² with (Prefix and Number):
- f. * Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours³ for each meeting pattern type.
- | | | | |
|---|--|---|---|
| <input type="text" value="1"/> Lecture | <input type="text" value="1"/> Laboratory ¹ | <input type="text" value="1"/> Recitation | <input type="text" value="1"/> Discussion |
| <input type="text" value="1"/> Indep. Study | <input type="text" value="1"/> Clinical | <input type="text" value="1"/> Colloquium | <input type="text" value="1"/> Practicum |
| <input type="text" value="3"/> Research | <input type="text" value="1"/> Residency | <input type="text" value="1"/> Seminar | <input type="text" value="1"/> Studio |
| <input type="text" value="1"/> Other | If Other, Please explain: <input type="text"/> | | |
- g. * Identify a grading system:
- Letter (A, B, C, etc.)
- Pass/Fail
- Medicine Numeric Grade (Non-medical students will receive a letter grade)
- Graduate School Grade Scale
- h. * Number of credits:
- i. * Is this course repeatable for additional credit? Yes No
- If YES: Maximum number of credit hours:
- If YES: Will this course allow multiple registrations during the same semester? Yes No

j. * Course Description for Bulletin:

An independent research project in an area of neuroscience under the direction of a faculty mentor. A research contract must be signed by the student and the faculty research mentor. May be repeated to a maximum of 12 credits, in combination with other independent research credit hours. They should be capable of doing "independent research" in the sense that they can conduct the experiments with little direct supervision. Students are expected to become familiar with related research in the current literature by regularly reading scientific journals.

k. Prerequisites, if any:

PSY 312, BIO 302 or equivalent

l. Supplementary teaching component, if any: Community-Based Experience Service Learning Both3. * Will this course be taught off campus? Yes No

If YES, enter the off campus address:

4. Frequency of Course Offering.

a. * Course will be offered (check all that apply): Fall Spring Summer Winter

b. * Will the course be offered every year? Yes No

If No, explain:

5. * Are facilities and personnel necessary for the proposed new course available? Yes No

If No, explain:

6. * What enrollment (per section per semester) may reasonably be expected? 30

7. Anticipated Student Demand.

a. * Will this course serve students primarily within the degree program? Yes No

b. * Will it be of interest to a significant number of students outside the degree pgm? Yes No

If YES, explain:

It is anticipated that this course will be of interest to students enrolled in a proposed new major in Neuroscience

8. * Check the category most applicable to this course:

Traditional – Offered in Corresponding Departments at Universities Elsewhere

Relatively New – Now Being Widely Established

Not Yet Found in Many (or Any) Other Universities

9. Course Relationship to Program(s).

a. * Is this course part of a proposed new program? Yes No

If YES, name the proposed new program:

b. * Will this course be a new requirement⁵ for ANY program? Yes No

If YES⁵, list affected programs:

10. Information to be Placed on Syllabus.

a. * Is the course 400G or 500? Yes No

If YES, the *differentiation for undergraduate and graduate students must be included* in the information required in 10.b. You must include: (i) identify additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See SR

b. * The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable above) are attached.

¹¹ Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

¹² The chair of the cross-listing department must sign off on the Signature Routing Log.

- In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, is two hours per week for a semester for one credit hour. (from SR 6.2.1)
- You must also submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.
- In order to change a program, a program change form must also be submitted.

Rev 8/09

[Submit as New Proposal](#) [Save Current Changes](#)

**PSY 393
Research in Neuroscience**

Instructor of Record: TBA

Office: TBA

Telephone: TBA

E-Mail: TBA

Office Hours: TBA

Class Time and Location: To be determined with the student's Research Mentor

Texts: To be determined with the student's Research Mentor

Course Description: An independent research project in an area of neuroscience under the direction of a faculty mentor. A research contract must be signed by the student and the faculty research mentor. May be repeated to a maximum of 12 credits, in combination with other independent research credit hours. They should be capable of doing "independent research" in the sense that they can conduct the experiments with little direct supervision. Students are expected to become familiar with related research in the current literature by regularly reading scientific journals.

Prerequisites: PSY 312, BIO 302 or equivalent

Student Learning Outcomes: By the end of the course, students will be able to

- (1) design and implement experiments using scientific methodology
- (2) Collect behavioral, anatomical and physiological data
- (3) statistically analyze experimental results
- (4) Communicate scientific problems, approaches, results and conclusions to a reader

Description of Course Activities and Assignments: Students will be required to attend regular lab meetings and meetings with the mentor, as needed. Students should take an active role in the design and execution of experiments and in the analysis and interpretation of data. Student will be required to complete one of the following substantive assignments, on consultation with the mentor:

1. write a review paper
2. present a poster at a local, regional or national scientific conference
3. present a substantial oral presentation of scientific activities and findings at a local, regional or National scientific conference

Reading Assignments

Reading assignments will be assigned by the student's research mentor.

Grading:

The grade for PSY 393 is assigned by the Research Mentor.

Grades are based on three aspects of a student's performance:

- (a) Fulfillment of required hours in the laboratory. Students are expected to spend on average 3 hours per week for each credit hour enrolled. Failure to complete the expected number of hours will reduce the grade.

- (b) Performance in the laboratory context. Research courses are meant to promote student creativity and initiative even in projects that are already well-defined. At a minimum, students should seek to confirm their understanding of the project through discussions and readings, and should learn how to troubleshoot basic problems.
- (c) The assignment as described above in "Description of Course Activities and Assignment".

The Research Mentor will determine the exact weighting of each of these activities in the determination of the student's final grade. These weighting will be detailed on the student's PSY 393 Research Contract.

Grading scale:

A = 90 – 100%, B = 80 – 89%, C = 70 – 79%, D = 60 – 69%, E < 60%

Midterm grades will be available no later than the last day to submit midterm grades.

Attendance: Attendance in the laboratory is required. Absences (excused or unexcused) could severely compromise a research project so it is important to keep the student's Research Mentor informed of all absences. Missed laboratory work/assignments will result in a score of zero for that work/assignment, unless an acceptable written excuse is presented within one week of the missed laboratory time/ assignment deadline. Make-up opportunities will be determined by the student's Research Mentor.

Excused Absences (boilerplate):

Students need to notify the professor of absences prior to class when possible. S.R. 5.2.4.2 defines the following as acceptable reasons for excused absences: (a) serious illness, (b) illness or death of family member, (c) University-related trips, (d) major religious holidays, and (e) other circumstances found to fit "reasonable cause for nonattendance" by the professor.

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day in the semester to add a class. Information regarding dates of major religious holidays may be obtained through the religious liaison, Mr. Jake Karnes (859-257-2754).

Students are expected to withdraw from the class if more than 20% of the classes scheduled for the semester are missed (excused or unexcused) per university policy.

Academic Integrity: Per university policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. The minimum penalty for a first offense is a zero on the assignment on which the offense occurred. If the offense is considered severe or the student has other academic offenses on their record, more serious penalties, up to suspension from the university may be imposed.

Plagiarism and cheating are serious breaches of academic conduct. Each student is advised to become familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. Complete information can be found at the following website: <http://www.uky.edu/Ombud>. A plea of ignorance is not acceptable as a defense against the charge of academic dishonesty. It is important that you review this information as all ideas borrowed from others need to be properly credited.

Part II of *Student Rights and Responsibilities* (available online <http://www.uky.edu/StudentAffairs/Code/part2.html>) states that all academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own

thought, research, or self-expression. In cases where students feel unsure about the question of plagiarism involving their own work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows ideas, organization, wording or anything else from another source without appropriate acknowledgement of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else's work, whether it be a published article, chapter of a book, a paper from a friend or some file, or something similar to this. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be.

Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone. When a student's assignment involves research in outside sources of information, the student must carefully acknowledge exactly what, where and how he/she employed them. If the words of someone else are used, the student must put quotation marks around the passage in question and add an appropriate indication of its origin. Making simple changes while leaving the organization, content and phraseology intact is plagiaristic. However, nothing in these Rules shall apply to those ideas which are so generally and freely circulated as to be a part of the public domain (Section 6.3.1).

Disabilities/ Medical Conditions: If you have a documented disability that requires academic accommodations, please see me as soon as possible. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, email address jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.

Identifying a Faculty Mentor

The first step to doing undergraduate research is to find a faculty mentor. Choosing the right mentor and laboratory will have a large impact on the student's research experience and deserves serious effort and preparation on the student's part. Faculty do not generally advertise undergraduate research positions and, therefore, the student will have to actively seek out a mentor. The student's do not need to have a particular research project in mind, just the desire to do research. The faculty mentor can be someone from the Department of Psychology or someone in a neuroscience-related discipline outside the department.

To identify a potential faculty mentor we suggest talking to professors from whom you have taken classes and scanning individual faculty web pages to identify a research program in an area of particular interest to you. (See these listings of faculty on the Psychology Department's webpages). Ideally, you will identify several possible mentors. Contact the individual faculty member(s) in person, by phone, or by e-mail to set up an appointment to talk about the possibility of undertaking an undergraduate research project in their laboratories. Professors are generally more than willing to talk with students about their research programs. However, students should recognize that not all faculty have the space, time, or resources to mentor every interested undergraduate, and some faculty may not be able to consider you for a position in their laboratories. Therefore, it is advisable to consider multiple faculty members. Perseverance in finding a mentor will almost always be rewarded. We suggest that you start looking for a mentor one semester before you would like to begin a research project.

Completion of PSY 393 Contract.

PSY 393 Contracts can be obtained at <https://psychology.as.uky.edu/independant-research>. This contract must be completed by both student and Research mentor.

Course Policy on Classroom Civility and Decorum:

The university, college and department all have a commitment to respect the dignity of all and to value differences among members of our academic community. There exists the role of discussion and debate in academic discovery and the right of all to respectfully disagree from time-to-time. Students clearly have the right to take reasoned exception and to voice opinions contrary to those offered by the instructor and/or other students (S.R. 6.1.2). Equally, a faculty member has the right -- and the responsibility -- to ensure that all academic discourse occurs in a context characterized by respect and civility. Obviously, the accepted level of civility would not include attacks of a personal nature or statements denigrating another on the basis of race, sex, religion, sexual orientation, age, national/regional origin or other such irrelevant factors.

PSY 393 Research in Neuroscience (1-3 Credit Hours)

Research Contract

In order to receive credit for PSY 393, students and their research mentors must complete a contract. *If a contract is not completed **each semester** by the add/drop date YOU WILL NOT BE ABLE TO REGISTER FOR THIS CLASS.* **Return a copy of the completed contract to the research mentor.**

Academic session in which the research will take place:

(Circle one) Fall Spring 4-week 8-week YEAR: _____

Credit Hours: _____

Research mentors may be any research-active psychology or neuroscience faculty member at the University of Kentucky. Please enter grades in those courses that you have completed:

Please list grades.

<u>PSY Course Number</u>	<u>Grade</u>
PSY 312	_____
BIO 302	_____
or equivalent course	_____

Research mentors agree to provide lab space, resources (eg. chemicals), and guidance. Guidance includes safety training as well as training in scientific method, technique, and presentation. Mentors will be asked to grade the student's independent work.

Please provide the following information:

Student's Name	Student ID	Email	Telephone
Mentor Name	Department	Email	Telephone

Student's signature: _____

Mentor's signature: _____

This section to be filled in by the Mentor. Please indicate what activities (and their weighting) will be used in the determination of the student's grade in the course. (ex. Attendance 25%, oral reports 25%, final paper 50%, etc). The contract will not be approved if this information is missing/incomplete.

A= 90-100; B= 80-89; C=70-79; D=60-69; F= 59 and below

Please attach to this form a description of the proposed research work: You must follow the indicated 3-point format. If the student's project is a continuation from a previous semester of PSY 393 , provide a short description of the results of the previous semester's work and indicate that it is a continuation. **Complete this section in consultation with the research mentor.**

1. State a hypothesis or driving principle.
2. Briefly describe the sorts of experiments the student intend to perform, including brief technical details.
3. What might the results of these experiments be and how could these results support or refute the student's hypothesis?