Course Description

This course is an introductory survey of neuroscience with special relevance to psychology. An overall goal of this course is to gain appreciation of many of the physiological processes that result in functions of the brain. With an exposition of the tools and perspectives of neuroscience, we will consider how molecular pathways and neural systems produce psychological phenomena. Finally, we will study the application of neuroscience to understand normal brain development, optimize personal wellbeing, and treat disruptions of brain function.

Course Objectives

1. Understand how behavior relates to the structures and functions of the nervous system
2. Explore the mechanisms of sensation, homeostasis of internal states, and behavior
3. Survey mechanisms of functions of motor control, motivation, affect, and cognition
4. Examine how application of neuroscience principles and approaches contributes to remediation and enhancement of psychological well being
5. Investigate how disruptions of neural systems contribute to mental dysfunction

Required Readings


- Login with UF All-Access and Opt-In to gain access to Revel.

PREREQUISITE KNOWLEDGE and SKILLS:

Students who register for this course are required to have an introductory course in Psychology (e.g. PSY2012). Fundamental knowledge in introductory Biology (e.g. BSC2010) is helpful, but not required. The course is self-contained - meaning that everything you need is contained within the course materials. Accordingly, this course is appropriate for students who have a broad interest in Psychology and the biological basis of behaviour.
Class Schedule

Table 1: Schedule of course modules and chapter topics from Carlson and Birkett (2017)

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Chapter (Module)</th>
<th>Chapter Title</th>
<th>Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>08/19 - 08/23</td>
<td>Ch.1 (Module 1)</td>
<td>Introduction</td>
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<tr>
<td>2</td>
<td>08/26 - 08/30</td>
<td>Ch.2 (Module 2)</td>
<td>Structure and Function of Nervous System Cells</td>
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<tr>
<td>3</td>
<td>09/02 - 09/06</td>
<td>Ch.3 (Module 3)</td>
<td>Structure and Function of the Nervous System</td>
<td>Exam 1 Sep-10</td>
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<tr>
<td>4</td>
<td>09/09 - 09/13</td>
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<tr>
<td>5</td>
<td>09/16 - 09/20</td>
<td>Ch.4 (Module 4)</td>
<td>Psychopharmacology</td>
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<tr>
<td>6</td>
<td>09/23 - 09/27</td>
<td>Ch.6 (Module 5)</td>
<td>Vision</td>
<td>Exam 2 Oct-8</td>
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<tr>
<td>7</td>
<td>09/30 - 10/04</td>
<td>Ch.8 (Module 6)</td>
<td>Control of Movement</td>
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<td>8</td>
<td>10/07 - 10/11</td>
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<tr>
<td>9</td>
<td>10/14 - 10/18</td>
<td>Ch.9 (Module 7)</td>
<td>Sleep and Biological Rhythms</td>
<td>Exam 3 Nov-5</td>
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<td>10</td>
<td>10/21 - 10/25</td>
<td>Ch.10 (Module 8)</td>
<td>Reproductive Behavior</td>
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<tr>
<td>11</td>
<td>10/28 - 11/01</td>
<td>Ch.11 (Module 9)</td>
<td>Emotions</td>
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<tr>
<td>12</td>
<td>11/04 - 11/08</td>
<td>Ch.12 (Module 10)</td>
<td>Ingestive Behavior</td>
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<td>13</td>
<td>11/11 - 11/15</td>
<td>Ch.13 (Module 11)</td>
<td>Learning and Memory</td>
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<td>14</td>
<td>11/18 - 11/22</td>
<td>Ch.18 (Module 12)</td>
<td>Drug Abuse</td>
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<tr>
<td>16</td>
<td>12/02 - 12/06</td>
<td></td>
<td></td>
<td>Exam 4 Dec-3</td>
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Summary of Course Grade

- **Quizzes: 60%**
  - 30 quizzes
  - Multiple-choice
  - Short-answer
  - 5 questions per quiz
  - 10 minutes per quiz
  - Grade | Percentage Range
  - A | 96% — 93%
  - A- | 92.5% — 90%
  - B+ | 89.5% — 86.5%
  - B | 86% — 83%
  - B- | 82.5% — 80%
  - C+ | 79.5% — 76.5%
  - C | 76% — 73%
  - C- | 72.5% — 70%
  - D+ | 69.5% — 66.5%
  - D | 66% — 63%
  - D- | 62.5% — 60%
  - E | 59.5% — 0%

- **Exams: 40%**
  - 50 questions per exam
  - 60 minutes per exam
  - Multiple-choice
  - Short-answer

2/7
<table>
<thead>
<tr>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
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<tr>
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<td>Syllabus Quiz</td>
<td>Quiz #1 Ch.01 Sub-modules: 1.1, 1.2, 1.3, 1.4</td>
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<td>Quiz #2 Ch.02 Sub-modules: 2.1, 2.2, 2.3</td>
<td>Quiz #3 Ch.02 Sub-modules: 2.4, 2.5</td>
<td>Quiz #4 Ch.02 Sub-modules: 2.6, 2.7</td>
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<td>Labor Day</td>
<td>Quiz #5 Ch.03 Sub-modules: 3.1</td>
<td>Quiz #6 Ch.03 Sub-modules: 3.2, 3.3</td>
<td>Quiz #7 Ch.03 Sub-modules: 3.4</td>
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<td>Exam 1 Chapters: 1, 2, 3</td>
<td>Quiz #8 Ch.04 Sub-modules: 4.1, 4.2</td>
<td>Quiz #9 Ch.04 Sub-modules: 4.3, 4.4</td>
<td>Quiz #10 Ch.04 Sub-modules: 4.5, 4.6</td>
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<td>Quiz #11 Ch.06 Sub-modules: 5.1, 5.2</td>
<td>Quiz #12 Ch.06 Sub-modules: 5.3, 5.4</td>
<td>Quiz #13 Ch.06 Sub-modules: 5.5, 5.6, 5.7</td>
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<td>Quiz #15 Ch.08 Sub-modules: 6.4, 6.5</td>
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<td>Exam 2 Chapters: 4, 6, 8</td>
<td>UF Homecoming</td>
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<td>Quiz #16 Ch.09 Sub-modules: 7.1, 7.2</td>
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<td>Quiz #17 Ch.09 Sub-modules: 7.3, 7.4</td>
<td>Quiz #18 Ch.09 Sub-modules: 7.5, 7.6</td>
<td>Quiz #19 Ch.10 Sub-modules: 8.1</td>
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<td>Quiz #20 Ch.10 Sub-modules: 8.2, 8.3, 8.4</td>
<td>Quiz #21 Ch.11 Sub-modules: 9.1, 9.2</td>
<td>Quiz #22 Ch.11 Sub-modules: 9.3</td>
<td>Quiz #23 Ch.11 Sub-modules: 9.4, 9.5</td>
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<td>Quiz #24 Ch.12 Sub-modules: 10.1, 10.2, 10.3</td>
<td>Quiz #25 Ch.12 Sub-modules: 10.4, 10.5</td>
<td>Quiz #26 Ch.13 Sub-modules: 11.1, 11.2</td>
<td>Quiz #27 Ch.13 Sub-modules: 11.3, 11.4, 11.5</td>
<td>Quiz #28 Ch.13 Sub-modules: 11.6, 11.7</td>
<td>Quiz #29 Ch.18 Sub-modules: 3.1, 3.2</td>
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<td>Veterans Day</td>
<td>Quiz #27 Ch.13 Sub-modules: 11.3, 11.4, 11.5</td>
<td>Quiz #28 Ch.13 Sub-modules: 11.6, 11.7</td>
<td>Quiz #29 Ch.18 Sub-modules: 3.1, 3.2</td>
<td>Quiz #30 Ch.18 Sub-modules: 3.3, 3.4, 3.5, 3.6</td>
<td>Exam 4 Chapters: 12, 13, 18</td>
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<td>Break</td>
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<td>3/7</td>
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Details of Grading and Class Policies

NOTE: Although most information is included in Canvas, this multi-page PDF is the primary course syllabus. Please print out this document. I reserve the right to revise the syllabus in order to accommodate the needs of the course. In case of any updates, please pay attention to announcements.

- We will not cover chapters 5, 7, and 14-17 of the textbook.
- Pay careful attention to the due dates for quizzes and exams.
- Exams always take place on Tuesdays. It is the responsibility of each student to complete an exam or quiz before any potential conflicts occur for schedules of work or other courses.

TEXTBOOK: Please note that this course participates in the UF All Access program (Required). Login at the following website and Opt-In to gain access to your required course materials - https://www.bsd.ufl.edu/G1CO/IPay1f/start.aspx?TASK=INCLUDED – UF All Access will provide you with your required materials digitally at a reduced price and the ability to pay using your student account. This option will be available starting 1 week prior to the semester starting and ending 3 weeks after the first day of class. Revel access is essential to this course, students who opt out of UF All Access will be removed from the course roster.

GRADING: All assessments in this course are on Canvas. Quizzes will count for a total of 60% of the final grade and will cover material in the sub-modules (i.e, chapter sections) for which the quiz is assigned. There are four summative exams. Each examination will address the material from the relevant segment of the course. The exams will count for a total of 40% of the final grade (i.e, 10% per exam).

PROCTORING: Quizzes and exams for this course are proctored by HonorLock. The benefits of HonorLock are that the proctoring framework is embedded in Canvas without intrusiveness and the need for prior scheduling. The goal of proctoring in this course is to place all students on a level field. Benefits of this technological support for our course include convenience and technical support for assessments online. At the start of the semester please examine and ensure the minimum requirements for your learning environment, and take the practice quiz in Canvas. https://honorlock.com/support/

QUIZ POLICY: Each online quiz is available a minimum of a week before its due date and time. Then, after the due date it will disappear, along with the opportunity to get points for it. Each quiz has a time limit of 10 minutes, and the quiz form in Canvas will cease activity at the end of the time period. Quizzes will consist of individually presented multiple-choice and/or short-answer questions. Quizzes are closed book and proctored by HonorLock. Students who share or attempt to share information pertaining to course content in the form that is assessed in quizzes or exams will be referred to Student Conduct and Conflict Resolution (SCCR) Office in the Dean of Students Office. https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/ Honor code violations for quizzes will result in grade sanctions of a 20% point-value reduction on the assignment (i.e., two letter-grades). For more on this go to page 6 of the syllabus.

When taking quizzes It’s important to read textbook sections and watch lectures before each quiz. You have only one opportunity to take each quiz, so make certain you are well prepared before you start the quiz. During quizzes students are not allowed to view notes or course material. In some cases, figures and factual information will be provided in order to provide context.
Feedback from quizzes Learning assessments consist of frequent low-stakes quizzes. The feedback for quiz questions are geared toward indicating areas of material that need additional work. Feedback pertaining to missed questions or correct answers will be provided only during office hours for an individual student. Office hours meeting to discuss quizzes can be in person or in a closed-room conference on Zoom. Specific instructions for use of audio/visual conferencing on Zoom are on the UF E-learning website. https://elearning.ufl.edu/zoom/

EXAM POLICY: Each online exam will be available during only on the date specified in this syllabus. Each exam has a time limit of 60 minutes, and the exam window will cease activity (i.e., automatically close) at the end of the 60 minutes. You have only a single opportunity to take each exam. All online quizzes and examinations must be completed on time (i.e. by the due date and time). Exams summarize what has been learned in the course for a set of modules. Feedback will not be provided on exams in order to support the validity of material for comparison from year to year across classes. Honor code violations for an exam will result in grade sanctions of a 20% point-value reduction on the exam (i.e., two letter-grades). For more information go to page 6.

LATE POLICY At the start of the semester, please read through the syllabus for potential conflicts that will occur. Students are expected to progress through the course on the timetable outlined in this syllabus. It is advised that students take quizzes and turn in assignments early, in order to avoid any potential (i.e., but, unlikely) problems with technology. A late quiz or exam will be lowered 10% for every day it is late, including weekends. Once the deadline passes at midnight, the late policy will be implemented by algorithm in Canvas.

Situations where adjustments will not be made

- **Travel** – Students are responsible to take quizzes or exams before travelling.
- **Internet Connection Problem** – It is the responsibility of each student to take quizzes and exams from locations with a reliable internet connection. A dedicated room for online assessments is available in UF Library West. To make a reservation for a time of high demand go to the following website: http://ufl.libcal.com/spaces?lid=4458&gid=8873
- **Technical Problems From Other Causes** – Although is the responsibility of each student to have a reliable connection to complete homework and take quizzes and exams, there are other problems that can occur. If there is a different problem, a support ticket must be obtained directly from HonorLock or from the UF help desk. Technical support from these services will be necessary diagnose and certify the source of any problem. **In fact, causes of connection problems, hardware, or other software problems can be adequately diagnosed, so students are encouraged to actively troubleshoot with support personnel.** Course instructors will not respond regarding any technical problems that do not have a prior support ticket from UF or HonorLock.

EMERGENCIES: In cases of unavoidable emergencies please contact the instructor and teaching assistants through Canvas. Emergency inquiries that are communicated through Canvas will receive a response typically within 48 hrs. Please allow additional time on weekends or holidays.

- Personal medical emergencies will require a letter from a licensed medical professional.
- Absences because of University sanctioned activities will require advance letter from a University official.
- Approvals of an exception for religious observance must be made several days in advance. Scheduling for the course was selected to avoid most major holidays. Please consider taking quizzes early if a conflict occurs.
ACADEMIC HONESTY GUIDELINES: The academic community of students and faculty at the University of Florida strives to develop, sustain and protect an environment of honesty, trust and respect. Students are expected to pursue knowledge with integrity. Academic integrity, as a shared value, is dependent on the mutual trust and respect by all members of an academic community. Cheating threatens all who are part of this shared system, and therefore, it’s essential to report any violations to the UF SCCR Office. Please encourage others to act with respect for their community.

The Honor Pledge: We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Student Honor Code. On all work submitted for credit by Students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.”

3. Violations of the Student Honor Code

A. CHEATING.
A Student cannot use unauthorized materials or resources in any academic activity for academic advantage or benefit. Cheating includes but is not limited to:
1. Using any materials or resources prepared by another Student without the other Student’s express Consent or without proper attribution to the other Student.
2. Using any materials or resources, through any medium, which the Faculty has not given express permission to use and that may confer an academic benefit to the Student.
3. Using additional time, or failing to stop working when instructed, on any time-bound academic activity.
4. Failing to follow the directions of a proctor of any academic activity, when such conduct could lead to an academic advantage or benefit.
5. Collaborating with another person, through any medium, on any academic activity, when Faculty has expressly prohibited collaboration.

B. COMPLICITY IN VIOLATING THE STUDENT HONOR CODE.
Attempting, aiding, encouraging, facilitating, abetting, or conspiring to commit, hiring someone else to commit, giving or receiving bribes to secure, or being a participant (by act or omission) in any act prohibited by the Student Honor Code.

C. FALSE OR MISLEADING INFORMATION.
A Student cannot use unauthorized materials or resources in any academic activity for academic advantage or benefit. Cheating includes but is not limited to:
1. A Student must not make a false or misleading statement during the Investigation or resolution of an alleged Student Honor Code violation.
2. A Student must not make a false or misleading statement for the purpose of procuring an improper academic advantage for any Student.
3. A Student must not use or present fabricated information, falsified research, or other findings if the Student knows or reasonably should be aware that the information, research, or other finding is fabricated or falsified.

D. INTERFERENCE WITH AN ACADEMIC ACTIVITY.
1. A Student must not take any action or take any material for the purpose of interfering with an academic activity, through any means over any medium.
2. A Student must not be disruptive to the testing environment or other academic activity.

E. PLAGIARISM.
A Student must not represent as the Student’s own work all or any portion of the work of another. Plagiarism includes but is not limited to:
1. Stealing, misquoting, insuflciently paraphrasing, or patchwriting.
2. Self-plagiarism, which is the reuse of the Student’s own submission or the simultaneous submission of the Student’s own work, without the full and clear acknowledgment and permission of the Faculty to whom it is submitted.
3. Submitting materials from any source without proper attribution.
4. Submitting a document, assignment, or material that, in whole or in part, is identical or substantially identical to a document or assignment the Student did not author.

F. SUBMISSION OF ACADEMIC WORK PURCHASED OR OBTAINED FROM AN OUTSIDE SOURCE.
A Student must not submit as their own work any academic work in any form that the Student purchased or otherwise obtained from an outside source, including but not limited to: academic materials in any form that the Student purchased or otherwise obtained from an outside source, a collection of research papers, tests, or academic materials maintained by a Student Organization or other entity or person, or any other sources of academic work.

G. UNAUTHORIZED RECORDINGS.
A Student must not, without express authorization from Faculty, make or receive any Recording, through any means over any medium, of any academic activity, including but not limited to: a Recording of any class or of any meeting with Faculty. Students registered with the Disability Resource Center who are provided reasonable accommodations that include allowing such Recordings must inform Faculty before making such Recordings.
**CLASS EVALUATIONS:** Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at [https://gatorevals.aa.ufl.edu/students/](https://gatorevals.aa.ufl.edu/students/). Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via [https://ufl.bluera.com/ufl/](https://ufl.bluera.com/ufl/). Summaries of course evaluation results are available to students at [https://gatorevals.aa.ufl.edu/public-results/](https://gatorevals.aa.ufl.edu/public-results/).

**COUNSELING AND WELLNESS CENTER:** Contact information for the Counseling and Wellness Center: [http://www.counseling.ufl.edu/cwc/Default.aspx](http://www.counseling.ufl.edu/cwc/Default.aspx), 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

**ADDITIONAL SUPPORT FOR STUDENTS WITH DISABILITIES:** Students requesting accommodation for disabilities must first register with the Dean of Students Office ([http://www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking the quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

**POLICY ON SEXUAL HARASSMENT** Sexual Harassment is not tolerated in this class, in the Department of Psychology, or at the University of Florida. Sexual harassment includes: the inappropriate introduction of sexual activities or comments in a situation where sex would otherwise be irrelevant. Sexual harassment is a form of sex discrimination and a violation of state and federal laws as well as of the policies and regulations of the university. All UF employees and students must adhere to UF’s sexual harassment policy which can be found here: [https://hr.ufl.edu/forms-policies/policies-managers/sexual-harassment/](https://hr.ufl.edu/forms-policies/policies-managers/sexual-harassment/). Please review this policy and contact a university official if you have any questions about the policy. As mandatory reporters, university employees are required to report knowledge of sexual harassment to UF’s Title IX coordinator. For more information about UF’s Title IX office see: [https://titleix.ufl.edu/](https://titleix.ufl.edu/). You can also complete a Sexual Harassment Report online (Title IX) at: [https://titleix.ufl.edu/title-ix-reporting-form/](https://titleix.ufl.edu/title-ix-reporting-form/).