

UNIVERSITY OF FLORIDA
COLLEGE OF MEDICINE SYLLABUS

NEUROSCIENCE
GMS 6790 New Developments in Neuroscience (2 credits)
Delivery Format: Online

Instructor Name:

Jeremy Flint, PhD

Email Address: jflint@mbi.ufl.edu

Office Hours: Students request and schedule online Zoom meetings

Preferred Course Communications: Email through Canvas course platform

Prerequisites: Completion of GMS 6007 or consent of instructor. Designed for graduate students in online MSc or PhD programs.

Course Overview:

This 2-credit course is a required course in the Online Master's Program in Biomedical Sciences with a concentration in Biomedical Neurosciences. This course will introduce students to the underlying steps that can be taken to successfully read and understand published, peer-reviewed papers in the top science and neuroscience journals. By the end of the course, students will be able to apply what they learn in this course to their future efforts to read and understand the content of scientific papers.

Course Objectives and/or Goals:

To introduce students to strategies that can be used to improve their abilities to read and understand scientific papers published in the primary scientific literature. At the end of this course, students will be able to research topics unfamiliar to them with the goal of being able to evaluate the appropriateness of the methodologies used to carry out specific experiments, the quality of the results obtained from those experiments, and the significance of the results in the context of the topic area under investigation.

Instructional Methods:

All assignments and interactions within this course will be asynchronous and will take place within the online course platform, Canvas. The assignments will include short-answer surveys reviewing components in the selected literature as well as peer-reviews of the surveys conducted by other students taking the course.

Description of Course Content:

The course is a 13-week course and is divided roughly into two, six-week long sections. The first half of the course (weeks 1 through 6) will focus on how to approach reading a scientific manuscript. The assignments covered in the course's first half are intended to teach students an effective methodology for how to best divide and internalize the content of modern, academic journal articles. During the second half of the course (weeks 7 through 12), students will be tasked with applying the techniques covered during weeks 1 through 6 in order to review and assess the content of a modern, scientific journal article selected as a featured study.

Course Schedule

Week(s) -Topics

Drop/Add - Course Introduction

1-6 – How to Approach Scientific Papers

1 – Mastering Search Engines / IDing Types of Research Papers

2 – Week 1 Peer Review

3 – Research Goals VS Testable Hypotheses

4 – Week 3 Peer Review

5 – Do the Results Support or Refute the Hypothesis?

6 – Week 5 Peer Review

7-12 – Application of Manuscript Reading Skills

7 – Introduction Assignment

8 – Week 7 Peer Review

9 – Methods and Results Assignment

10 – Week 9 Peer Review

11 – Discussion Assignment

12 – Week 11 Peer Review

Course Materials and Technology:

Course Materials

- All reading assignments are assigned from the primary literature. No textbook is required
- Recorded VoiceThread lectures are accessible through the Canvas course website. Students are encouraged to email questions directly to instructors through the mail interface on Canvas.
- Short quizzes and/or graded surveys will accompany each unit. Their purpose is to help students determine if they are understanding the materials.
- Discussion boards are available for posting questions to peers about the readings and general questions about the course and course materials.
- Online, scheduled synchronous meetings between individual students and the instructor will be available by request throughout the semester using Zoom conferences.

Required Technology

- Laptop or desktop computer equipped with microphone and video camera. There are VoiceThread apps that are available for free for iOS and Android devices that can be used to view the VT and comment on them. I strongly recommend that you use a laptop or desktop computer when working on your assignments for this course.
- High speed, broad band internet connection such as DSL or cable. A broadband Internet connection is strongly recommended. Slower connections may affect your ability to interact with materials in the course. It is also recommended that you try to submit all course exams and assignments well ahead of the deadline since I have found that network speeds can significantly slow as the deadlines approach due to high-volume use.

SPECIAL NOTE: Some users with satellite Internet service may find their online courses do not load quickly or consistently due to satellite network design issues.

- Installation of LockDown Browser on computer that you will use for this course. The computer you use to take exams should be “hard wired” to the internet. WiFi is not stable enough to support a reliable connection while taking quizzes or exams.

- Canvas courses are best viewed using Chrome or Firefox. For specific questions about browser compatibilities and general questions about e-learning at UF please go to <https://helpdesk.ufl.edu>

WHEN DO I CONTACT THE UF HELPDESK?

In the event that you have technical difficulties with E-learning (CANVAS), please contact the UF helpdesk at learning-support@ufl.edu, or (352) 392-4357 - select option 2. If your technical difficulties will cause you to miss a due date, you MUST report the problem to E-learning. Include the ticket number that you are given in an e-mail to the instructor to explain the late assignment/quiz/test.

Types of questions that should be directed to the Help Desk:

1. I can't log into E-learning
2. I have clicked on the "submit" button for my quiz and nothing is happening
3. I can't upload an assignment (be sure that you have reviewed the tutorial on how to do this BEFORE you contact the Help Desk)
4. E-learning has given me an error message and I can't submit my assignment.

NOTE: Late work that involves technical difficulties with E-learning MUST be accompanied by a ticket number from the Help Desk.

ALSO - Be sure to be familiar with the hours of operation for the UF help desk since they are oftentimes not available after 10:30pm on workdays and after 8:00 pm on weekends. Their hours are posted at <http://helpdesk.ufl.edu/about/business-hours/>

Academic Requirements and Grading

Assignments

Assignments will include quizzes, surveys, and short-answer style essays related to the specific materials contained in the training portion (first 6 weeks) and the assigned scientific paper portion (last 6 weeks). As we progress through the course, assignments completed during one week will be assessed through peer review during the following week. This alternating pattern between assignment submissions and the peer reviews of those assignment submissions will continue throughout both halves of the course. It

is important that students submit their completed assignments by the deadlines indicated as those missing assignment submissions will be ineligible to participate in peer review for the following week.

Grading

This course is an S/U course. To receive an S for this course, students will be required to submit all assignments and participate in all rounds of peer-review. Students should strive to obtain 84% or more of the total points available by the end of the course in order to earn a grade of satisfactory “S”. Grading rubrics and/or answer sheets will be used to evaluate student assignments. The rubrics and answer sheets will be provided to you so that you will understand what is required to successfully complete these assignments and to help assist with the peer-review of your classmate’s submissions.

Late assignments, quizzes and tests

We recognize that personal circumstances arise that may interfere with your ability to meet a deadline. If you anticipate missing a deadline, please let the instructor know as soon as possible and they will work with you to resolve the issue. Your emails will be responded to within 48 hours (typically sooner). Please see the UF Attendance Policies concerning absences, religious holidays, and illness. In general, late assignments, quizzes, and tests will not be accepted unless you have obtained a deadline extension from the instructor. If you encounter technical difficulties with assignments (e.g. LockDown browser malfunction), be sure to include a UF IT helpdesk ticket number in your request for a deadline extension if you plan to request one. The extension request MUST be submitted within 24 hours of the technical difficulty. More information on UF grading policy may be found at: <https://catalog.ufl.edu/graduate/regulations/#text>

COURSE EVALUATION

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at the end of the course. You will receive an email from UF when your evaluation is ready to be completed. These evaluations are very important to instructors since they help instructors to identify areas of a course that are working well and those that might

require improvement. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of student evaluations are available to students at <https://evaluations.ufl.edu/results/>.

PLAGIARISM

Students must understand what plagiarism is and must not engage in this behavior when completing assignments and tests in this course. The University of Florida Student Honor Code states that plagiarism includes but is not limited to:

1. Quoting oral or written materials including but not limited to those found on the internet, whether published or unpublished, without proper attribution.
2. Submitting a document or assignment that in whole or in part is identical or substantially identical to a document or assignment not authored by the student.

Students whose assignments/tests exhibit evidence of plagiarism will receive zeros for those assignments and tests for the first offense and will receive a warning. Students who continue to engage in this behavior after the warning will be reported to the UF Dean of Students Office for conduct violations.

PROHIBITED COLLABORATION OR CONSULTATION

Students found to be involved in sharing answers and/or collaborating on exams or assignments (not including those designed specifically for group work) will receive zeros for those exams and assignments and will receive a warning. Students who continue to engage in this behavior after the warning will be reported to the UF Dean of Students Office for conduct violations.

HOW TO SUCCEED IN ONLINE COURSES

First, you need to be aware that online learning poses its own unique challenges. Because the online classroom is available to you 24 hours a day it is easy to delay work on course material, forget deadlines, and not put enough time in to prepare for exams. These challenges are exacerbated when a student is not a 'self-starter' or if does not possess good time management skills including use of reminders. Unlike traditional instructional settings in which each student goes to the same class, the online setting enables every student to “create” the class of his or her choosing. In theory, this type of instruction should be more adaptable to a variety of learning styles; however,

the reality is that some students have not yet determined what their optimal learning style is. Poor performance in online courses often can be directly linked to procrastination and poor time management (trying to do a week's worth of work just before the deadline). Rushing to complete assignments before the 11:59 pm deadlines on Sundays is NOT a good strategy because you forfeit your opportunity to ask questions about material you do not understand. In general, I answer questions you have about course content within 48 hrs of your email. Oftentimes, I answer much more quickly. Questions posted Sunday afternoon/evening may not be answered before you take tests that are due at 11:59 pm on Sunday. You are expected to adhere to the posted assignment deadlines, but you may submit assignments at any time before the deadlines expire. There are two things you can do to insure that you are informed of deadlines. First, it is important that you take advantage of the notification features of Canvas so that you receive automated reminders when assignments are due and can receive notices when new information is posted in the course. You should take a moment to modify your notification preferences so that you can take advantage of what Canvas offers. Your preference settings can be accessed by clicking on your account icon in the left menu panel on the Canvas page (your photo or icon on top of icon listing) and by selecting Notifications from the list. Second, it is important that you check your ufl.edu email on a daily basis which is the email address that Canvas and I will use to communicate with you.

ACADEMIC HONESTY

As a result of completing the registration form at the University of Florida, every student has signed the following statement: "I understand that the University of Florida expects its students to be honest in all their academic work. I agree to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University." We fully support the intent of the above statement and will not tolerate academic dishonesty. All students enrolled in GMS 6790 are expected to follow the University of Florida Honor Code (excerpt above). The full text can be found at:

<https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

Student guidelines for ethical behavior can be found at:

<https://catalog.ufl.edu/UGRD/student-responsibilities/>

Please also review the use of copyrighted materials, which can be found on the Health Science Center Library's web page: <https://library.health.ufl.edu/>

Accommodations for Students with Disabilities:

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>.

It is important for students to share their accommodation letter with their instructor and discuss their access needs as early as possible in the semester. The College is committed to providing reasonable accommodations to assist students in their coursework.

Counseling and Student Health

Students sometimes experience stress from academic expectations and/or personal and interpersonal issues that may interfere with their academic performance. If you find yourself facing issues that have the potential to or are already negatively affecting your coursework, you are encouraged to talk with an instructor and/or seek help through University resources available to you.

- The Counseling and Wellness Center 352-392-1575 offers a variety of support services such as psychological assessment and intervention and assistance for math and test anxiety. Visit their web site for more information: <http://www.counseling.ufl.edu>. On line and in person assistance is available.
- You Matter We Care website: <http://www.umatter.ufl.edu/>. If you are feeling overwhelmed or stressed, you can reach out for help through the You Matter We Care website, which is staffed by Dean of Students and Counseling Center personnel.
- The Student Health Care Center at UF Health is a satellite clinic of the main Student Health Care Center located on Fletcher Drive on campus. Student Health at UF Health offers a variety of clinical services. The clinic is located on the second floor of the Dental Tower in the Health Science Center. For more information, contact the clinic at 392-0627 or check out the web site at: <https://shcc.ufl.edu/>
- UF Health Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32698, ufhealth.org/emergency-room-trauma-center.

- University Police Department: Visit police.ufl.edu/ or call 352-392-1111 (or 9-1-1 for emergencies).
- Crisis intervention is always available 24/7 from: Alachua County Crisis Center: (352) 264-6789
<http://www.alachuacounty.us/DEPTS/CSS/CRISISCENTER/Pages/CrisisCenter.aspx>

Do not wait until you reach a crisis to come in and talk with us. We have helped many students through stressful situations impacting their academic performance. You are not alone so do not be afraid to ask for assistance.

Academic Resources

E-learning technical support: Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at helpdesk@ufl.edu.

Career Connections Center: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services <https://career.ufl.edu/>

Library Support: <https://uflib.ufl.edu/> ask various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center: Broward Hall 352-392-2010 or to make an appointment 352 392-6420.

General study skills and tutoring. <https://academicresources.clas.ufl.edu/>

Writing Studio: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers. <https://writing.ufl.edu/writing-studio/>

Student Complaints On-Campus: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

On-Line Students Complaints: distance@dce.ufl.edu