

IMPORTANT: This syllabus form should be submitted to OAA (gsbs_academic_affairs@uth.tmc.edu) a week before the start of each semester.

NOTE to STUDENTS: If you need any accommodations related to attending/enrolling in this course, please contact the Graduate School's 504 Coordinator Natalie Sirisaengtaksin, PhD. We ask that you notify GSBS in advance (preferably at least 3 days before the start of the semester) so we can make appropriate arrangements.

Term and Year: Fall 2026 Course Number and Course Title: GS14 1051: Neurobiology Learning and Memory Credit Hour: 1 Prerequisites: None Meeting Location: UTHealth Houston McGovern Medical School Building/Room#: MSB 7.046	Program Required Course: No Approval Code: Yes (If yes, the Course Director or the Course Designee will provide the approval code.) Audit Permitted: Yes Classes Begin: August 31, 2026 Classes End: December 11, m2026 Final Exam Week: December 14-18, 2026
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Class Meeting Schedule

Day	Time
Friday	9:30 AM

Course Director Name and Degree: John Byrne, PhD Title: Professor Department: Neurobiology & Anatomy Institution: UTHH Email Address: John.H.Byrne@uth.tmc.edu Contact Number: 713-500-5602 NOTE: Office hours are available by request. Please email me to arrange a time to meet.	Instructors 1. John Byrne, PhD Institution: UTHealth Email Address: John.H.Byrne@uth.tmc.edu 2. Rong-Yu Liu, PhD Institution: UTHealth Email Address: Rong-Yu.Liu@uth.tmc.edu 3. Curtis Neveu, PhD Institution: UTHealth Email Address: Curtis.Neveu@uth.tmc.edu 4. Yili Zhang, PhD Institution: UTHealth Email Address: Yili.Zhang@uth.tmc.edu
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Course Description:

This course offers a comprehensive exploration of learning and memory research, primarily focusing on cellular and molecular mechanisms. The curriculum is designed to provide students with an in-depth understanding of current research in the field of learning and memory. Specifically focusing on exploring the intricacies of cellular and molecular processes involved in these cognitive functions, it equips students with the skills necessary to deliver exceptional research seminars. There are weekly 90-minute sessions that will alternate between faculty and student presentations, with discussion we will dive into issues in the neurobiology of learning and memory. Faculty and student presentations will revolve around recent articles, within the last five years, addressing relevant topics. Students will receive guidance on the preparation of PowerPoint presentations, seminar organization, and effective oral presentation techniques. Valuable feedback from both faculty and fellow students will be provided during and after each presentation.

Textbook/Supplemental Reading Materials - N/A**Course Objective:**

Upon successful completion of this course, students will have an in-depth understanding of current research in the field of learning and memory.

Specific Learning Objectives:

1. Learn about key discoveries in the field of learning and memory.
2. Learn effective creation of PowerPoint presentations.
3. Learn to organize a research seminar.
4. Learn effective oral presentation skills.

Student responsibilities and expectations:

Students enrolled in this course will be expected to perform the following activities each week.

1. Read, process, and review material from a seminal research article relating to the field of learning and memory.
2. Participate in and contribute to course discussions during class presentations.
3. On a rotating basis, present a PowerPoint review of a selected article from the literature.

Grading System: **Pass/Fail**

Student Assessment and Grading Criteria:

Percentage	Description
Presentation (50%)	On a rotating basis, students are required to present a PowerPoint review of a selected article from the literature.
Participation and/or Attendance (50%)	Students are required to contribute to course discussions during class presentations.

CLASS SCHEDULE

Date	Duration (Hour(s) taught by lecturer)	Lecture Topic	Lecturer/s
4-Sept	1.5	Review of research article	Student presentation
11-Sept	1.5	Review of research article	Student presentation
18-Sept	1.5	Review of research article	Student presentation
28-Sept	1.5	Review of research article	Student presentation
02-Oct	1.5	Review of research article	Student presentation
09-Oct	1.5	Review of research article	Curtis Neveu, Ph.D.
016-Oct	1.5	Review of current research	Student presentation
23-Oct	1.5	Review of research article	Rong-Yu Liu, Ph.D.
30-Oct		Review of research article	Student presentation
06-Nov	1.5	Review of research article	Curtis Neveu, Ph.D.
13-Nov	1.5	Review of research article	Yili Zhang, Ph.D.
20-Nov	1.5	Review of research article	Student presentation
27-Nov		Thanksgiving Holiday	
04-DEc	1.5	Review of research article	Student presentation
11-Dec	1.5	Review of research article	Student presentation