Course Outline

585.685.81.FA21: Methods in Neurobiology

This outline provides an overview of the course and assignments by week. Please remember to check the calendar for specific due dates.

Each course module runs for a period of seven (7) days, i.e., one week. Due dates for readings and other assignments are referred to by the day of the module week in which they are due. Module weeks begin on Tuesday.

| Module | Dates | Module Title | Assignments |
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| **Unit 1 – Modules 2-6 Methods, Techniques, Models** | | | |
| **Module 1** | Mon 08/30/21–Tue 09/07/21 | Introduction to the Study of Neurobiology | * Course Pretest * Discussion |
| **Module 2** | Tue 09/07/21–Mon 09/13/21 | Models in Neurobiology (I) | * Discussion-Muddiest Point * Discussion-Media Post * Case Study (Part 1) |
| **Module 3** | Tue 09/14/21–Mon 09/20/21 | Models in Neurobiology (II) | * Discussion-Media Post * Case Study (Part 2) |
| **Module 4** | Tue 09/21/21–Mon 09/27/21 | Advances in Microscopy | * Discussion-Media Post * Case Study (Part 1) |
| **Module 5** | Tue 09/28/21–Mon 10/4/21 | Electrophysiology | * Discussion-Media Post * Case Study (Part 2) |
| **Module 6** | Tue 10/5/21–  Mon 10/11/21 | Whole Brain Imaging and Recordings | * Discussion-Media Post * Case Study (Unit Assessment) |
| **Unit 2 – Modules 7-10 Aging and Neurodegeneration** | | | |
| **Module 7** | Tue 10/12/21–Mon 10/18/21 | Aging | * Discussion of Unit Assessment * Case Study (Part 1) |
| **Module 8** | Tue 10/19/21–Mon 10/25/21 | Neurodegeneration (ND) (I) | * Discussion-Media Post * Case Study (Part 2) |
| **Module 9** | Tue 10/26/21–Mon 11/1/21 | Neurodegeneration (II) | * Discussion-Media Post * Case Study (Part 1) |
| **Module 10** | Tue 11/2/21–  Mon 11/8/21 | Neurodegeneration and Quantitative Behavior Tests | * Case Study (Part 2) * Case Study (Unit Assessment) |
| **Unit 3 – Modules 11-13 Regeneration** | | | |
| **Module 11** | Tue 11/9/21–  Mon 11/15/21 | Regeneration and Cell Reprogramming (I) | * Discussion of Unit Assessment * Case Study (Part 1) |
| **Module 12** | Tue 11/16/21–Mon 11/22/21 | Regeneration and Cell Reprogramming (II) | * Discussion-Media Post * Case Study (Part 2) |
|  | Tue 11/23/21–  Mon 11/29/21 | * Thanksgiving Holiday | |
| **Module 13** | Tue 11/30/21–Mon 12/6/21 | Regeneration and Cell Reprogramming (III) | * Discussion-Final Case Study * Final Case Study (Unit assessment) |
| **Module 14** | Tue 12/7/21–  Mon 12/13/21 | Course Wrap-up | * Final Exam |