

Fall 2018

BIOL 448-H01: Neuropathophysiology

Darshan Desai

Follow this and additional works at: <https://digitalcommons.njit.edu/bio-syllabi>



Part of the [Biology Commons](#)

Recommended Citation

Desai, Darshan, "BIOL 448-H01: Neuropathophysiology" (2018). *Biology Syllabi*. 17.
<https://digitalcommons.njit.edu/bio-syllabi/17>

This Syllabus is brought to you for free and open access by the NJIT Syllabi at Digital Commons @ NJIT. It has been accepted for inclusion in Biology Syllabi by an authorized administrator of Digital Commons @ NJIT. For more information, please contact digitalcommons@njit.edu.

BIOLOGY 448-H01: NEUROPATHOPHYSIOLOGY - HONORS

INSTRUCTOR:	Dr. Darshan J. Desai	EMAIL:	darshan@njit.edu
OFFICE:	Central King Building 339A	SKYPE ID:	njitpha
COURSE SCHEDULE:	M, R: 4:00 – 5:25 pm in CKB 212	COURSE WEBSITE:	Moodle
OFFICE HOURS:	By appointment (email): M: 11am-12pm & 1pm-2:30pm; W: 11:30am-2pm		

LEARNING GOALS & OBJECTIVE:

- This is a seminar style course where peer reviewed journals articles and the latest scientific advances will be identified, reviewed and assessed as a class.
- The instructor will only provide background and demonstration in the early portion of the Fall 2018 semester as indicated by the dates listed in the course outline.
- Only if necessary, will the course instructor add to the course materials – once the background/demonstration period is over, students will be solely be responsible for course progression.
- Students are required to utilize various medical, scientific and technology databases (PubMed, Google Scholar, or Web of Science) to find articles.
- Students are required to organize presentations view PowerPoint (only) to present their finding to the class- the goal of which is to learn and master how to present these materials to scientific peers and professionals.
- Students will generate mini-reviews, as discussed below and based exclusively on the ALL materials used in their team or individual presentations.
- The course will be administered via [Moodle](#) – you must have access to NJIT MOODLE.

PREREQUISITES: BIOL 315 or BIOL 340 or R120:340 or BIOL 341 or R120:444 or BIOL 447 with a grade of C or better.

TEXTBOOKS: (ALL TITLES ARE AVAILABLE IN NJIT BOOKSTORE OR AMAZON.COM)

- Neuroanatomy through Clinical Cases: 2nd Edition: Paper Text © 2010, Hal Blumenfeld; ISBN: 9780878930586.
- The Elements of Style; 4th Edition: Paper Text © 2000, Strunk & White; ISBN: 9780205309023.

GRADING POLICY:

- Groups will be graded by both students and the instructor.
- The Instructor will have 65% of value (power points and written mini-review works), with student’s evaluation being 15% of complete grade.
- A cumulative final will be at the end of the semester during finals period 10%. **You will also have quizzes every week for the topics covered for that week that will be 10%.**

BIOLOGY 448-H01: NEUROPATHOPHYSIOLOGY - HONORS

GRADING POLICY, CONT'D.:

- Students will be assigned a unique and anonymous identifier (known only to the instructor) to allow for objective and un-restrictive assessment of the presentation and work effort of seminar speaker and teammates.
- **Two (2) weeks after the student's presentation**, student speakers will have the anonymous critiques from the class and the instructor to allow for use in improvement of successive preparation and presentation—this will be posted on Moodle.

A= 90% or higher	<p>GRADES ARE NOT NEGOTIABLE</p> <p>DO NOT ASK OR TRY!</p> <hr/> <p><u>With regards to responding to email correspondence, I will try to reply to emails within 24-48 hrs after receiving them. Please include the course number and name in subject line of email. If you do not receive a reply from me by then, please email me again including the original email sent!</u></p>
B= 80% or higher	
C= 70% or higher	
D= 60% or higher	
F= below 60%	

PRESENTATION:

- Teams of 2 (or 3, if not individuals) will prepare the power points with a lecture length of 45mins, followed by discussion time by audience and instructor.
- Teams or student presenters will have all PDFs of the journal articles and reference materials used to generate the seminar 1 week prior to the date of the seminar for upload to Moodle and proper review by fellow students and instructor, as well as a 1 page summary paper the student audience to utilize- Failure to provide materials on schedule will immediately result in a FULL LETTER grade reduction for the group. NO EXCEPTIONS
- Presentations should have a history of the pathology, epidemiology of the pathology, history of the disease, clinical diagnostic/biochemical characterization of the pathology, a detailed biochemical/molecular/biological mechanism of the pathology, current therapeutic options and an emergent therapy.
- Student presenters will have to submit a 5-10 page mini-review of the topic covered, done individually & independently by each student **1 week** after the student's presentation. Late submission of the critique will result in an automatic 25% reduction in the student's grade for each day it is late!
- These papers will be submitted to Turnitin.com via MOODLE for review and academic integrity validation. Any report that has over 25% or higher similarity reports will be characterized as plagiarized and will result in unconditional failure of the assignment, followed by immediate reporting of the incident to department, chairman and dean.
- As a Writing Intensive/Honors Course, Student presenters will have to submit a 5-10 page mini-review of the topic covered; this is done individually & independently by each student, and is due **1 week** post the student's presentation (4 writing assignments in total). Late submission will not be accepted under any circumstances!!
- First drafts of these papers will be submitted to Turnitin.com via MOODLE for review, edit recommendations, and academic integrity validation. **Any report that has over 25% or higher similarity reports will be characterized as plagiarized and will result in unconditional failure of the assignment, followed by immediate reporting of the incident to Department, Chair and Dean.** Once students receive the corrected 1st drafts from the instructor, they will re-submit the 2nd edited draft for second review and comments. After 1 week and after a 2nd review, student will receive further comments and edits, students will resubmit a final version after 1 week to be graded.

BIOLOGY 448-H01: NEUROPATHOPHYSIOLOGY - HONORS

PRESENTATION CONT'D:

Each student will be assigned a Final major 15-20 page research paper assignment on September 30th. This paper will be in a professional "review" format to be clarified by the instructor. An outline of the paper is due **October 15, 2018**. A draft of the paper is due for review by **November 15, 2018**. This assignment will be due on **December 1, 2018**. Any late submission will result in a drop in letter grade for each day (or portions) it is late.

***Plagiarism is defined as the act of using another person's words or ideas without giving credit to that person!**

SCHEDULE AND COURSE OUTLINE:

WEEK/DATES		LECTURE TOPICS
Week 1	Thu, Sept. 06	Intro to the Course/Objectives
	Mon, Sept. 10	Intro to Brain & Nervous System
Week 2	Thu, Sept 13	Intro Cell Biology
	Mon, Sept. 17	Intro Molecular Biology
Week 3	Thu, Sept 20	Intro to Pathology
	Mon, Sept 24	Continued Intro to Pathology
Week 4	Thu, Sept 27	TBD
	Mon, Oct 01	TBD
Week 5	Thu, Oct 04	TBD
	Mon, Oct 08	TBD
Week 6	Thu, Oct 11	TBD
	Mon, Oct 15	TBD
Week 7	Thu, Oct 18	TBD
	Mon, Oct 22	TBD
Week 8	Thu, Oct 25	TBD
	Mon, Oct 29	TBD
Week 9	Thu, Nov 01	Student Disease A-1 TBD
	Mon, Nov 05	Student Disease A-2 TBD
Week 10	Thu, Nov 08	Student Disease B-1 TBD
	Mon, Nov 12	Student Disease B-2 TBD
Week 11	Thu, Nov 15	Student Disease C-1 TBD
	Mon, Nov 19	Student Disease C-2 TBD
Week 12	Thu, Nov 22	THANKSGIVING BREAK, NO CLASS!
	Mon, Nov 26	Student disease D-2 TBD
Week 13	Thu, Nov 29	Large Group disease A-1 TBD

	Mon, Dec 03	Large Group disease A-2 TBD
Week 14	Thu, Dec 06	Large Group Disease B-1 TBD
	Mon, Dec 10	Large Group Disease B-2 TBD
Week 15	Thu, Dec 13	READING DAY, TBD
	Mon, Dec 17	TBD – FINAL EXAM WEEK
FINALS		FINAL EXAM WEEK: DECEMBER 15-21, 2018