### Instructor: Darshan J Desai  
darshan@njit.edu

**Course Day and times:** Tuesday & Thursday- 4:00PM to 5:25PM  
**Room:** Central King Building (CKB) 341.

**Text Books:**  
- Neuroanatomy Through Clinical Cases 2nd Edition by Hal Blumenfeld  
- Strunk and White Elements of Style  
All titles are available in NJIT Bookstore or Amazon.com  

**ALL CORRESPONDENCE SHOULD HAVE THIS IN THE SUBJECT LINE OF THE EMAIL – BIOL 448-648 F2023**

<table>
<thead>
<tr>
<th>Lecture/Date</th>
<th>Day</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1 Sept 5</td>
<td>Tuesday</td>
<td>Intro to the course/Objectives</td>
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<td>2 Sept 7</td>
<td>Thursday</td>
<td>Intro to Brain &amp; nervous system</td>
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<td>3 Sept 12</td>
<td>Tuesday</td>
<td>Intro Cell biology</td>
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<td>4 Sept 14</td>
<td>Thursday</td>
<td>Intro Molecular Biology</td>
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<td>5 Sept 20</td>
<td>Tuesday</td>
<td>Intro to pathology</td>
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<td>6 Sept 21</td>
<td>Thursday</td>
<td>Continued intro to pathology.</td>
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<td>7 Sept 26</td>
<td>Tuesday</td>
<td>TBD</td>
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<td>8 Sept 28</td>
<td>Thursday</td>
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<td>9 Oct 3</td>
<td>Tuesday</td>
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<td>10 Oct 5</td>
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<td>11 Oct 10</td>
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<td>12 Oct 12</td>
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<td>13 Oct 17</td>
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<td>14 Oct 19</td>
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<td>15 Oct 24</td>
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<td>16 Oct 26</td>
<td>Thursday</td>
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<td>17 Oct 31</td>
<td>Tuesday</td>
<td>Student disease A-1 TBD</td>
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<td>18 Nov 02</td>
<td>Thursday</td>
<td>Student disease A-2 TBD</td>
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<td>19 Nov 07</td>
<td>Tuesday</td>
<td>Student disease B-1 TBD</td>
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<td>20 Nov 09</td>
<td>Thursday</td>
<td>Student disease B-2 TBD</td>
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21  Nov 14  Tuesday  Student disease C-1 TBD
22  Nov 16  Thursday  Student disease C-2 TBD

23  Nov 21  Tuesday  Student disease D-1 TBD

November 23 – NO CLASS – HAPPY THANKSGIVING

24  Nov 28  Tuesday  Student disease D-2 TBD
25  Nov 30  Thursday  Large Group disease A-1 TBD
26  Dec 05  Tuesday  Large Group disease A-2 TBD
27  Dec 07  Thursday  Large Group disease B-1 TBD
28  Dec 12  Tuesday  Large Group disease B-2 TBD

Goals & Objective of BIOL448/628

- 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 2023 semester as indicated by the dates above.
- Only if necessary, will the course instructor add to the course materials – once the background/demonstration period is over, students will be solely responsible for course progression.
- Students are required to utilize various medical, scientific and technology databases (PubMed, Google Scholar, 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 CANVAS – you must have access to NJIT CANVAS.

Grading:

- Groups will be graded by both students and the instructor.
- The Instructor will have 45% of value (power points and 3 written mini-review works), with student’s evaluation being 15% of complete grade. **Late submission of the critique will result in an automatic 25% reduction in the student’s grade.**
- A cumulative final will be at the end of the semester during finals period 10%.
• The major final paper is 30% (20-25 pages – not including bibliography, using journal double column single space format; see sample paper on CANVAS).

• 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. The critiques will be submitted within 24hrs of each presentation and will be used towards their individual course grade. Late submission of the critique will result in an automatic 25% reduction in the student’s grade.

• 1 week 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 CANVAS.

  A= 90% or higher  
  B= 80% or higher  
  C= 70% or higher  
  D= 60% or higher  
  F= below 60%  

GRADES ARE NOT NEGOTIABLE – DO NOT ASK OR TRY!

Presentation:

• Teams of 2 (or 4, 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 the following items submitted to Dr.Desai 1 week prior to the date of the presentation to upload on to CANVAS for class review:
  1. all PDFs of the journal articles and reference materials used to generate the seminar 1 week prior to the date of the seminar. Teams must highlight PDF articles with priority data/information
  2. a 1 to 2 page summary/mini review document that outlines critical elements/data to be covered and reviewed from the journal articles submitted for the student audience to utilize

  ❖ Failure to provide materials on schedule will immediately result in a full letter grade reduction, NO EXCEPTIONS

• Presentations MUST have:
  1. a history of the pathology,
  2. epidemiology of the pathology,
  3. history of the disease,
  4. clinical diagnostic/biochemical characterization of the pathology,
  5. a detailed biochemical/molecular/biological mechanism of the pathology,
  6. current therapeutic options
7. an emergent therapy. *(2nd half of the presentation for first team presentations)*

- 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!! Late submission of the critique will result in an automatic 25% reduction in the student’s grade for each day it is late!*

- First drafts of these papers will be submitted to Turnitin.com via CANVAS for review, edit recommendations, and academic integrity validation. *Any report that has over 20% 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.* Once students receive the corrected 1st drafts from the instructor, they will re-submit the second edited draft for second review and comments after 1 week, and after a 2nd review, where student will receive further comments and edits, students will resubmit a final version after 1 week to be graded.

- Each student will submit 5 pathologies for a **Final LONG FORM major 20-25 page research paper (NOT INCLUDING BIOGRAPHY) assignment on September 30, 2023**. Student must submit 5 pathologies for selection by this date. The instructor will then select which Long Form Paper subject to be written about no later than October 14, 2023. This paper will be in a professional “review” format to be clarified by the instructor. This assignment will be due on December 10, 2023 – 10AM – this will NOT change.

- If you read and understand this syllabus – you will send me an email by Monday, September 4, 2023 before 5:00PM with the subject heading “BIOL 448-648 F2023 – I understand this course and read the syllabus.” Include your NJIT ID number and email address in the body of the email.

- **A= 90% or higher**
- **B= 80% or higher**
- **C= 70% or higher**
- **D= 60% or higher**
- **F= below 60%**

**GRADES ARE NOT NEGOTIABLE – DO NOT ASK OR TRY!**
Plagiarism is defined as the act of using another person's words or ideas without giving credit to that person! Even if you cite the work, but copy and paste it – this is STILL considered plagiarism!

This is an advanced Biology course and there is zero tolerance!!

Office Hours:
Thursday: 11am to 12pm & 1pm to 230pm
Wednesday: 11:30am to 2pm
Students must make an appointment to meet!
Phone: 973.642.7084
Email: darshan@njit.edu

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!

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