

Brief syllabus for GMS6750- Molecular Pathobiology of Neural Disease
5 weeks, 1 credit, letter graded

This course will provide students with up-to-date information on five different neural diseases:

- Alzheimer's disease
- Parkinson's disease,
- Huntington's disease
- Glioma
- lysosomal storage disease.

One disease will be covered each week. The material presented will include the symptoms, pathology, etiology, and, because there are no significant disease modifying treatments for any of these disorders a brief review of currently emerging treatment strategies will also be presented.

At the end of this 5-week course students will be able to

- Describe the symptoms of each disease and its prevalence in the population
- Compare and contrast the neuropathological features of each disease
- Describe how the neuropathology contributes to the disease phenotypes
- Compare potential etiological similarities between the neurodegenerative disorders
- Describe the molecular bases for each disease if known
- Be able to suggest and discuss potential treatment approaches for these diseases

Students will submit weekly written papers covering aspects of the disease discussed during that week. The content, structure, and logic of these papers will be evaluated using a detailed rubric. Scores received on these papers will be used to determine the student's final grade in this course.