

## CTSC 5280

# Applied Enteric Neurosciences in Health and Disease

**Faculty:** Michael Camilleri, M.D.

**Credits:** 1

**Quarter:** Fall of odd years

**Prerequisites:** None

### Overview

This course provides information of the mechanisms, diagnosis, and management of gastrointestinal diseases that affect motor and sensory functions of the digestive tract. Topics covered will include genetic and molecular basis of motility disorders, antroduodenal manometry, sensitivity testing, gastroduodenal motility disorders, diabetes and the gut, colonic motility testing and management of constipation, dyspepsia, irritable bowel syndrome, current and emerging therapies for IBS, motility disorders and pharmacogenomics.

### Objectives

- To provide students with a working knowledge of the mechanisms, diagnosis, and management of gastrointestinal diseases that affect motor and sensory functions of the digestive tract.
- To demonstrate the importance of the neural and hormonal control of the human gastrointestinal tract in health and disease, with particular emphasis on neurological diseases and diabetes mellitus.

### Evaluation

This course will be graded as A-F. Grades will be based on attendance and participation and final exam.

Students will be expected to spend approximately two to four hours per week on content from this 1-credit course.