

Introduction to Pathology of Disease Fall 2023

NCA&T Biol 342, NCCU BIOL 2030

learn.unclcn.org/pod2023

Organizers: Andrew Gladden, agladden@email.unc.edu; Georgette Dent, georgette_dent@med.unc.edu; Breanna Jeffcoat, bjeffcoa@email.unc.edu; Checo Rorie, cjrorie@ncat.edu; Antonio Baines, abaines@nccu.edu

Course Schedule

DATE	Topic	Instructor(s)	Confirm
	Module 1: The Basics of Pathology		
Aug 24, Thur	Which Tool in the Toolbox?	Broaddus	√
Aug 29, Tue	Tissue Organization. How do vertebrates make a spine?	Gladden	√
Aug 31, Thur	Basic Cell Histology. What are you looking at?	Gladden	√
Sept 5, Tue	Inflammation and Response to Injury	Hannah Hall	√
Sept 7, Thur	Paths to Careers in Pathology and Clinical Sciences	Panel 1	√
Sept 12, Tue	Cell Injury and Death, Cellular Destruction	Dent	√
Sept 14, Thur	Topic and Slide Review Session	Jeffcoat	√
Sept 19, Tue	Exam 1		
	Module 2: Cardiovascular System & Blood		
Sept 21, Thur	General Cardiovascular Physiology/Blood Pressure/Hypertension	Homeister	√
**Sept 23,	UNC Pathology Experience	At UNC	
Sept 26, Tue	Hemostasis and Thrombosis	Homeister	√
Sept 28, Thur	Heart Disease and Regeneration	Shea Ricketts	√
Oct 3, Tue	Kidney Disease	Keisha Gibson	√
Oct 5, Thur	Transfusion/Blood Type/Donation	Mariama Evans	√
Oct 10, Tue	No Class Fall Break		
Oct 12, Thur	Anemia and Sickle Cell	Staci Keene	√
Oct 17, Tue	Topic and Slide Review Session	Jeffcoat	√
Oct 19, Thur	Exam 2		
	Module 3: Cancer, Hijacking Development		
Oct 24, Tue	Introduction to Cancer Genetics & Biology	Gladden	√
Oct 26, Thur	Disparities in Disease	Baines	√
Oct 31, Tue	Malignant Hematopathology	Georgette Dent	√
Nov 2, Thur	No Class Homecoming		
Nov 7, Tue	Panel Discussion	Panel 2	
Nov 9, Thur	No Class A&T Wellness Day		
Nov 14, Tue	Head and Neck Cancers	Steven Johnson	√
Nov 16, Thur	Breast Cancer	Alina Hamilton	√
Nov 21, Tue	<u>Thanksgiving Break No Class</u>		
Nov 23, Thur	<u>Thanksgiving Break No Class</u>		
Nov 30, Thur	Topic and slide Review Session	Jeffcoat	√
Dec 5, Tue	Exam 3		

Panel 1: Breanna Jeffcoat (Moderator, UNC PBTS PhD Student), Mariama Evans, MD (UNC Pathology Faculty), Alisha Ware, MD (UNC Assistant Professor, Hematopathology), Christian Long, MLS (UNC McLendon Core Laboratory).

Panel Discussion 2: Checo Rorie (Moderator), Ashalla Freeman, Donita Robinson, LaKeya Hardy, Brenda Mitchell (UNC SOM Health Sciences).

Fall 2023

Time: Tuesday and Thursday, 12:30p – 1:45p; (NC A&T) or 1:00 – 2:15p (NCCU)

Case study 12:30p-1:00 NC A&T, 1:00 – 1:45 lecture both,

Location: Remotely

3 Credit Hours

Prerequisite: 1 biology course, target audience Sophomore and higher

Goals/Objectives for students:

- 1) Develop knowledge of pathologies in various human tissues.
- 2) Gain an understanding of how tissue systems are organized and primary diseases in the tissues.
- 3) Learn how to identify alterations in diseased tissue compared to normal tissue.
- 4) Acquire knowledge about signaling pathways and mechanisms that are altered in diseases.

Grading

Grading will be based on three areas: 1) attendance, 2) contribution to class discussions, 3) three exams, 4) Case study questions (10 total) on Aug. 31, Sept. 7, Sept. 14, Sept. 21, Sept. 28, Oct. 5, Oct. 12, Oct. 26, Nov. 9, Nov. 16.

Feedback

Your feedback on the organization and content of this course is critical for us to provide you and future classes with the best possible course. Please do not hesitate to provide your comments or criticisms during class or if you would like feel free to contact the class coordinators if you have comments or criticisms; these comments and/or criticisms will have no impact on your grading for the course.

Class Description:

The Introduction to Pathology class is designed for upper level undergraduate and MS students who are interested in pathology, human tissue function, disease progression and are considering graduate school or a health professions career. The course is designed to incorporate both didactic seminars and group paper-based discussions to understand the current state of specific topics in pathobiology. This course is designed to prepare the student for future independent disease research or a health profession.

Suggested Textbook Reading: Robbins Basic Pathology and/or Robbins and Cotran Pathologic Basis of Disease