

Graduate Medical Physiology II



MCP8042 Spring Semester 2022 Syllabus

Graduate Medical Physiology II is the second of a two-part course intended to provide a thorough introduction to human systems physiology at the level of first year medical school. The course will provide students with an understanding of the function, regulation and integration of human body organ systems, with emphasis on homeostatic maintenance in health as well as in some disease processes. The content of GMPII will cover gastrointestinal, blood, respiratory, renal, acid-base, endocrine and reproductive physiology. This course is primarily lecture based, but also includes problem-solving, group discussion, and online presentations. Lectures will be delivered in-person, with occasional supplementation with online video conferencing (Zoom, Canvas Conferences). There will be frequent online quizzes to assess students' understanding of the presented material.

Course Director John N. Lorenz, PhD (Email: lorenzjn@uc.edu)
Tel: 513-558-3097 • Office: MSB 4259

Instructors Dr. John Lorenz (Email: lorenzjn@uc.edu); Dr. Heather Christensen (Email: christht@uc.edu);
Dr. Aaron Marshall (Email: marshaa@uc.edu); Dr. Roger Worrell (Email: worrelrt@uc.edu);
Dr. Bryan Mackenzie (Email: mackenb@uc.edu); Dr. D.J. Lowrie (Email: lowriedj@uc.edu)
Office hours: By appointment, or scheduled video conferencing

Coordinator Emma Jones (Email: jones2ee@uc.edu)

Registration	Course #	Section	Call #	Credits	Class Schedule*	Location
	MCP8042	001	50782	4 G	Variable	Variable

Assessment	Class Quizzes (20 pts)	20 scores used (GI: best 4; Blood: best 2; Respiration: best 4; Renal/A-B: best 5; Endocrine/Reproduction: best 5)
Total = 175 pts		1 point per quiz = 20 points
	Small Group Tests (25 pts)	5 tests 5 questions/points per test (x5) = 25 points
	Exam (130 pts)	Multiple-choice, 3 exams: GI - Blood: 38 pts Respiratory – Renal - Acid-Base: 56 pts. Endocrine-Reproduction: 36 pts

Grading Grading will be in line with CoM policy with no adjustment for the distribution of scores.

A	90%–100%	B+	82%–84.99%	B–	74%–76.99%	C	67%–69.99%
A–	85%–89.99%	B	77%–81.99%	C+	70%–73.99%	Fail	Below 67%

Prerequisites Acceptance into Special Master's Program in Physiology & Graduate Medical Physiology I

Attendance Attendance and participation are important measures of student success. In this course, attendance is not recorded, but your attendance and participation are still expected. Missing an exam or activity without previous approval will result in failing that exam or activity.

Canvas & Email Policy Messages sent via Canvas or directly through e-mail will be considered sufficient notice. You should make sure that you have entered your UC email address in Canvas.

Textbooks Required texts will be provided in electronic format (pdf), or through electronic resources available through the UC library. The following optional textbooks are recommended for further reading:

- *Physiology* Fifth Edition, Linda S. Costanzo (ELSEVIER Saunders)
- *Medical Physiology*. (ELSEVIER Saunders), Walter F. Boron & Emile L. Boulpaep

Student Code of Professional Conduct

A graduate student of the University of Cincinnati is expected to maintain proper ethical and professional standards. This document lists specific expectations of MS in Physiology program, but students are also bound by the University of Cincinnati student code of conduct (http://www.uc.edu/conduct/Code_of_Conduct.html). Within the MS program:

- I. Students shall demonstrate respect and consideration for their fellow students, faculty, and staff in word and deed;
- II. Students shall not allow competitiveness with colleagues to adversely affect the educational experience;
- III. Students shall assist impaired colleagues in seeking professional help and accept such help if impaired themselves;
- IV. Students shall allow their colleagues fair and equal access to educational materials and not strive to create an unfair advantage over their colleagues;
- V. Students shall abide by all commonly understood principles of academic honesty. This includes, but is not limited to:
 - Students shall not provide to, or receive from another person, any impermissible assistance on any academic exercise;
 - Students shall not falsify, reproduce, use without attribution, or invent any information or citation;
- VI. Students shall not discriminate or harass their peers, in word or action, with regard to race, religion, sex, marital status, national origin, political affiliation, age, sexual orientation, pregnancy, or disability;
- VII. Students shall display acceptable conduct in the community, in keeping with the expectation of representing a profession both in school and outside;
- VIII. Students are responsible for reporting breaches of acceptable conduct of fellow students.

University Academic Integrity Policy

The University Rules, including the Student Code of Conduct, and other documented policies of the department, college, and university related to academic integrity will be enforced. Any violation of these regulations, including acts of plagiarism or cheating, will be dealt with on an individual basis according to the severity of the misconduct.

Special Needs Policy

If you have any special needs related to your participation in this course, including identified visual impairment, hearing impairment, physical impairment, communication disorder, and/or specific learning disability that may influence your performance in this course, you should meet with the instructor to arrange for reasonable provisions to ensure an equitable opportunity to meet all the requirements of this course. At the discretion of the instructor, some accommodations may require prior approval by Disability Services.

Counseling Services, Clifton Campus

Students have access to counseling and mental health care through the University Health Services (UHS), which can provide both psychotherapy and psychiatric services. In addition, Counseling and Psychological Services (CAPS) can provide professional counseling upon request; students may receive five free counseling sessions through CAPS without insurance. Students are encouraged to seek assistance for anxiety, depression, trauma/assault, adjustment to college life, interpersonal/relational difficulty, sexuality, family conflict, grief and loss, disordered eating and body image, alcohol and substance abuse, anger management, identity development and issues related to diversity, concerns associated with sexual orientation and spirituality concerns, as well as any other issue of concerns. After hours, students may call UHS at 513-556-2564 or CAPS Cares at 513-556-0648. For urgent physician consultation after-hours students may call 513-584-7777.

Title IX

Title IX is a federal civil rights law that prohibits discrimination on the basis of your actual or perceived sex, gender, gender identity, gender expression, or sexual orientation. Title IX also covers sexual violence, dating or domestic violence, and stalking. If you disclose a Title IX issue to me, I am required forward that information to the Title IX Office. They will follow up with you about how the University can take steps to address the impact on you and the community and make you aware of your rights and resources. Their priority is to make sure you are safe and successful here. You are not required to talk with the Title IX Office. If you would like to make a report of sex or gender-based discrimination, harassment or violence, or if you would like to know more about your rights and resources on campus, you can consult the website www.uc.edu/titleix or contact the office at 556-3349.