

Critical Thinking in Translational Medicine: MS Physiology Capstone



MCP9000, 3 credit hours Spring Semester 2022 Syllabus

Critical Thinking in Translational Medicine: Physiology Capstone is a practical course designed to provide students with the skills necessary to critically evaluate Basic Science research in Physiology and to transition such research to the clinical setting. The course will focus on critical thinking and reasoning incorporating ones collective experiences and knowledge in fundamental foundational material. The expectation is that students will integrate material from prior and current courses and apply such knowledge to interpretation of Bench to Bedside research. Course components will include both written and oral communication skill development at the professional level. Culmination of the course will be your MS Capstone, a UC Degree Requirement for the program.

Course Director: Roger T. Worrell, PhD
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Email: roger.worrell@uc.edu
Tel: 513-558-6489
Office hours: By appointment

Learning Outcomes:

1. Critical Review of Basic Science and Clinical Seminar/Grand Rounds Presentations.
2. Critical thinking approach to assessing and interpreting scientific publications.
3. Application of critical thinking and reasoning in self-assessment.
4. Development of written communication skills as applied to Basic Science Physiology and Medicine.
5. Development of oral presentation skills as applied to Basic Science Physiology and Medicine.
6. Integration of knowledge from Bench to Bedside.

Course components & Assessment:

	<u>Course Grade</u>
Seminar Critiques (~8)	20%
Paper Reviews (2)	15%
Workgroup Sessions	15%
Peer Review of Papers (2)	15%

Physiology MS Capstone Week (Please note the MS Capstone will be a year long effort!)

Oral Presentation	15%
Integrated Review Paper	20%

Grading:

%	Letter	For lecture exams
93-100	A	Very Good! Feel free to come see me
90-92	A-	
87-89	B+	Good! Feel free to come see me
83-86	B	
80-82	B-	You should come see me
77-79	C+	You must come see me
73-76	C	You must come see me
<72	F	You must come see me

Course Policies:

1. Canvas & Email Policy: Announcements and messages sent via Canvas or via UC email will be considered sufficient notice. You should not communicate with instructors from a non-UC email account. E-mails sent to the course director should follow the guidelines set forth in the course materials provided at the beginning of the course.
2. Attendance: Attendance is required, Prerequisites: Enrollment in the SMP Program
3. The student must complete **all** required assignments in order to receive a passing grade. Missed assignments: Assignments can only be made-up upon prior (before the assignment deadline) approval of the course director.
4. Course Withdrawal: The University policy on withdrawal from this course will be followed. The process for withdrawal and the policies that govern grading are available at: http://www.uc.edu/registrar/withdraw_reg.html
The course must be completed in order to receive the MS in Physiology degree.
5. Students should refer to the guidelines in the grade calculation sheet regarding their course grade as it develops. A B grade or higher is required for passing,
6. Students are strongly encouraged to meet with the course director if they have or anticipate any concerns or questions. A University Faculty/Staff Emergency Situations Guide is present in the office which covers Helping Students, UC Resources and Resource Contact Information. Your Mental Health and Wellbeing is important! Setting up a time to meet, early on, is particularly important if grade expectations are not met. Roger.Worrell@uc.edu, MSB 4251 (558-6489).
7. No lecture or course material shall be distributed by anyone on servers or sites other than the course canvas site. To do so is illegal. You may download on your personal system for your use only.

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 (<http://www.uc.edu/sas/disability>).

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: <http://www.uc.edu/studentlife/conduct> This is directly applicable in regards to maintaining confidentiality in the paper review process! A breach in the confidentiality agreement will be considered a serious breach in the Student Code of Conduct Rules.

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, <https://www.uc.edu/campus-life/caps.html>) can provide professional counseling upon request; students may receive five free counseling sessions through CAPS without insurance. CAPS also has a more informal “Let’s Talk” program. Resource links are provided via COM Graduate Education (<https://med.uc.edu/education/graduate-education/student-support-resources/mental-health-student-counselling-resources>) 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.