

Research Syllabus Spring 2013

Course Name(s)/Number (s):

ST:Immunobiology Res II - 13330 - BIO 442 – E (1 credit hour)
ST:Immunobiology II - 13309 - BIO 445 – F (3 credit hours)
ST:Immunobiology II - 13310 - BIO 6545 – Y(3 credit hours)
Thesis II - 13329 - BIO 6564 – Z (3 credit hours)

Course Location: Hederman 200, Medical Sciences Building 219

Course Times: varies with **mandatory** lab meetings Fridays at noon H201

Instructor: Stephanie Carmicle, Ph. D.
 Assistant Professor, Department of Biology
 Medical Sciences Building, Rm 215
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Dr. Carmicle’s Class Schedule:

8:00 AM		Biology I MSB 202		Biology I MSB 202	
9:00 AM	OFFICE HOURS		OFFICE HOURS		Immuno- biology Research
10:00 AM					
11:00 AM					
12:00 PM					
1:00 PM					
2:00 PM		Cell Bio Lab	Molecular Biology	Molecular Biology Lab	
3:00 PM	Cell Bio Prelab				
4:00 PM					

Prerequisites: Bio 111 and 112

I expect you to:

- ✓ Come to lab ready to learn, ask questions and think about the answers.
- ✓ Take initiative (It is the difference between an “A” and a “B”.)
- ✓ Make a mistake—that is how we learn.
- ✓ Develop your own questions and search for your own answers.

- ✓ Be focused and attentive in the lab.
- ✓ Follow the lab safety rules.
- ✓ Attend lab “meeting” every week and talk about your experiments for 15 minutes every other week.
- ✓ Keep a notebook.
- ✓ Repeat experiments.
- ✓ Leave the lab cleaner than you found it.

****FAILURE to meet these expectations will significantly impact your grade in this course. ****

I will:

- Be present in the lab at the appointed time ready to discover.
- Listen to your questions and guide you as we find the answers.
- Make a mistake ☺
- Be attentive.
- Follow the Lab Safety Rules.
- Keep a notebook.
- Repeat experiments.

Student evaluation:

Participation/Lab etiquette	40%
Lab Meeting	20%
Notebook	20%
Poster	20%
TOTAL	100%

Undergrads

Grading scale: 90-100% = A, 80-89% = B, 70-79% = C, 60-69% = D, and <60% = F.

Graduate Students

Grading scale: 90-100% = A, 88-89.9% = B+, 80-87.9% = B, 78-79.9% = C+, 70-77.9% = C, 60-69% = D and <60% = F.

The maintenance of a lab notebook is an individual responsibility. It is a legal document and this is “real” research—I expect your notebook to reflect that. More specifics regarding your notebook will follow. All of your experiments will not work, but I expect that you have performed each to the best of your ability, tried to figure out why it did not work and determined what you should do differently the next time around and record that info in your notebook with the methods and calculations.

Attendance: Since this is a “hands-on course”, I expect you to attend and be prepared for the day’s work. Please note that students’ grades can and will be reduced as a result of excessive absences.

- 3 hours of research/week = 1 hour of credit
- 6 hours of research/week = 2 hours of credit
- 9 hours of research/week = 3 hours of credit

*****Please note that these hour requirements are the minimal requirements for credit.*****

Absence from class: You should notify me (Email is fine.) ahead of time if possible.

Academic honesty: You are members of an institution that is dedicated to scholarship and spiritual growth. This institution is part of the larger academic community, the foundation of which is based on personal honesty. The success of this community depends on the commitment of both students and faculty to this principle and therefore cheating and plagiarism cannot and will not be tolerated. More importantly, Mississippi College is dedicated to empowering its students to develop the skills necessary for “making responsible, moral choices,” and therefore, the University will accept nothing less than scrupulous honesty from its students. We will follow the University policy on Academic Honesty (Policy 2.19), which can be found in the student handbook, The Tomahawk, pp. 35-36.
<http://www.mc.edu/publications/handbook/academic.pdf>

Class etiquette: As in any research lab, it is imperative that we work together to keep our laboratory space clean and organized. Let’s leave things better than we found them. If you get something out to use, please clean it and return it to its proper place or dispose of it into the proper waste receptacle when you are finished. Do not use your cell phones in class-even if you left your calculator at home. Not only is it impolite, but in a research lab it is unsafe. Leave our space cleaner than you found it. Ask questions!!!

Special accommodations at Student Counseling Services:

In order for a student to receive disability accommodations under Section 504 of the Americans with Disabilities Act, he or she must schedule an individual meeting with the Director of Student Counseling Services immediately upon recognition of their disability (if their disability is known they must come in before the semester begins or make an appointment immediately upon receipt of their syllabi for the new semester). The student must bring with them written documentation from a medical physician and/or licensed clinician that verifies their disability. If the student has received prior accommodations, they must bring written documentation of those accommodations (example Individualized Education Plan from the school system). Documentation must be current (within 3 years). The student must meet with SCS face-to face and also attend two (2) additional follow up meetings (one mid semester before or after midterm examinations and the last one at the end of the semester). Please note that the student may also schedule additional meetings as needed for support through SCS as they work with their professor throughout the semester. Note: Students must come in each semester to complete their Individualized Accommodation Plan (example: MC student completes fall semester IAP plan and even if student is a continuing student for the spring semester they must come in again to complete their spring semester IAP plan).

Student Counseling Services is located in Alumni Hall Room #4 or they may be contacted via email at: mbryant@mc.edu or rward@mc.edu or by phone at [601-925-7791](tel:601-925-7791).

Learning Objectives:

Upon the completion of this course you will be able to:

- Dissect a peer-reviewed scientific paper
- Learn scientific techniques that vary depending on the project
- Trouble shoot experiments
- Critically evaluate data
- Present research orally and visually using a poster