

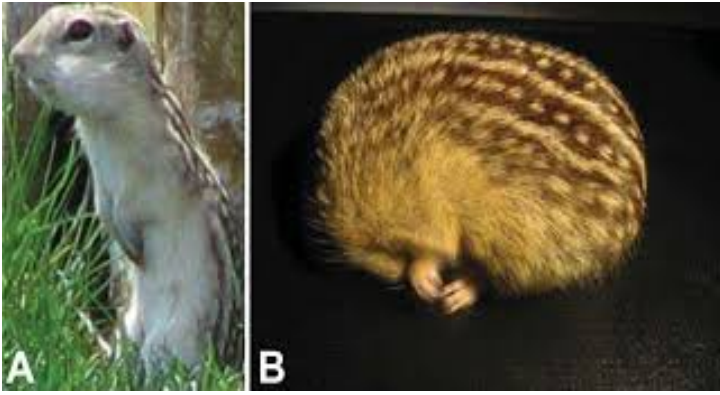
University of Wisconsin-Madison

Department of Bacteriology

# MICROBIOLOGY 551

*The capstone experience in microbiology*

# 2017



*Ictidomys  
tridecemlineatus*

Thirteen-lined ground  
squirrel

***Dr. Melissa Christopherson***

***Dr. Robin Kurtz (Course Coordinator)***

## Microbiology 551 Schedule Spring 2017\*

Period	Date	Day	Bench Work	Reading/Writing	Lecture	
1	1/18-19	W/R	Streak for Proficiency Test (PT) organism onto NA plate	Form teams and determine research sub-topic. Read a paper on sub- topic by next period.	Introductions, expectations, organization, introduction of capstone project.	
2	1/23-24	M/T	Proficiency tests	Team discussion and selection of target microbes and team presentation paper	Proposal and presentation guidelines	
3	1/25-26	W/R	Proficiency tests/Media Prep	Discuss outlines and presentations		
4	1/30-31	M/T	Proficiency tests/Media Prep		Group 1 and 2 presentation	
5	2/1-2	W/R	Proficiency tests/Begin inoculations	<b>Proposal outline due Feb 2</b>	Group 3 and 4 presentation	
6	2/6-7	M/T	Proficiency tests /Isolations		Group 5 and 6 presentation	
7	2/8-9	W/R	Proficiency tests due/Isolation		Group 7 and 8 presentation (or spill-over)	
8	2/13-14	M/T	Lab Work to isolate member of microbiota DNA isolations PCR Gel Purify	Identify a paper on sub-topic to present to class as a 5' chalk talk	Chalk talk presentation guidelines	
9	2/15-16	W/R			MiSeq lecture, study sample prep guidelines	
10	2/20-21	M/T			Chalk talk presentations	
11	2/22-23	W/R			<b>MiSeq quiz (in class)</b>	Chalk talk presentations
12	2/27-28	M/T				Chalk talk presentations
13	3/1-2	W/R				Chalk talk presentations
14	3/6-7	M/T			<b>Proposal draft due in class</b>	Peer review ( <b>PR due 3/10</b> )
15	3/8-9	W/R			Team work on Problem set	Bioinformatics
16	3/13-14	M/T			Team work on Problem set	Bioinformatics
17	3/15-16	W/R			Team work on Problem set	Bioinformatics
	3/20-24	M-F	<b>SPRING BREAK</b>			
18	3/27-28	M/T	Prep of Miseq samples MiSeq sequencing	<b>Proposal final draft due 3/29</b>	Bioinformatics	
19	3/29-30	W/R			Team work on Problem set	
20	4/3-4	M/T			<b>Bioinformatics quiz in class</b>	
21	4/5-6	W/R				
22	4/10-11	M/T	Informatics	Teamwork on posters	Poster prep guidelines	
23	4/12-13	W/R	Informatics	Teamwork on posters	Poster presentation	
24	4/17-18	M/T	Informatics	<b>Poster draft due 4/18</b>	Bioethics paper guidelines	
25	4/19-20	W/R	Posters		Bioethics	
26	4/24-25	M/T		<b>Poster final copy due 4/24</b>	Bioethics	
27	4/26-27	W/R			Bioethics	
	4/28			<b>POSTER SYMPOSIUM</b>		
28	5/2-3	M/T	Evaluation of team members	<b>Bioethics paper due 5/3</b>	Bioethics and class summary	
29	5/4-5	W/R	<b>GRILL OUT</b>			

\*Exact activities and dates subject to modifications by instructor and whims of science, throughout the semester

## Instructors

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## Assignments

Assignments will be placed in the Drop Box at Learn@UW by 11:30 PM on the date the assignment is due unless otherwise stated as an in-class assignment. Guidelines for assignments will be given in class at the times designated in the class schedule. Please contact the instructor with any questions concerning assignment requirements before the assignment deadline. Contact the instructor within one week after assignment deadline with any concerns about evaluation or feedback.

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Assignment	Points	Due Date
Proposal Outline	10	Feb 2
Formal presentation	20	Jan. 30-Feb. 9
Proficiency tests (4)	30 (see break down in description of PTs)	Completed by Feb, 8-9 (In class)
Chalk talk presentation	20	Feb 20- March 2 (In class)
MiSeq quiz	20	Feb 22-23 (In class)
Proposal Draft	40	March 6 - 7 (In class)
Peer review	5	March 10
Proposal Final	100	March 29
Informatics quiz	25	April 3-4 (In class)
Poster draft	25	April 18
Poster final version	50	April 24
Bioethics Analysis Paper	25	May 3
Final Notebook: Hours, Evaluation of effort by instructor, Peer evaluation	100	May 4-5
Poster presentation	10	April 28 (at symposium)
Random notebook checks	20 (4 x 5 pts. each)	TBD
Class Participation and attendance	80	-
<b>Total Points</b>	<b>580</b>	

**Grading scale:** >92=A, 90-91.9=AB, 82-89.9=B, 78-81.9= BC, 70-77.9=C, 62-69.9=D, F<61.9

