Microbiology 330: Host-Microbe Interactions
SYLLABUS for Spring 2015
MWF 11 am
Room 1420 Microbial Sciences Building

Welcome to Microbiology 330, Host-Microbe Interactions. The focus of this course is on the biology of microbial interactions. The content covered includes both beneficial interactions and pathogenic interactions between microbes and their hosts. The majority of the course covers the interactions between microbes and humans.

Instructors

Robin Kurtz	email: rskurtz@wisc.edu	PH: 263-1781
Michelle Rondon	email: mrrondon@wisc.edu	PH: 890-1978

Textbook

There is no textbook for this course. Course material will be provided as PDF files of readings and PowerPoint presentations. **These materials are the property of the University of Wisconsin and are for your personal use only**. You are not allowed to repost/upload them in any form to any web site. Doing so will be considered academic misconduct.

Learn@UW

The course Learn@UW site will be used to post files of lecture presentations, readings, and other materials and to post grades.

In-class activities and Exams

In-class activities

There are several class sessions where there will be in-class activities. These are clearly marked in the syllabus. Materials produced by students will be handed in at the end of class and graded. Sometimes these activities are dependent on readings that will be posted on Learn@UW. This will be clearly noted for each activity.

Exams

There will be three exams, each worth 80 points. Exams will only cover material in that section of the course. There is no comprehensive final. The first two exams will be held during class periods and will be a mixed format, including short answer, fill in the blank, multiple choice, True/False, etc. The third exam will take place during the official Final Exam Period, but will only cover material from section III. The final exam period is Thursday, May 14, 2015 from 5:05 to 7:05 pm, location to be determined.

Writing assignments

For each unit, there will be one take-home writing assignment. These will be due at the time of each exam.

Semester project
Students will produce a portion of a "pathogen factsheet" for five microbial pathogens. These will be due at intervals during the semester; these dates are clearly marked in the syllabus. More information on this is found in a separate document.

Grading

The course is divided into three even sections. There are 400 possible points in the course, with the breakdown of points as follows

Exam I	80 points
Writing activity for Section I	10 points
Exam I	80 points
Writing activity for Section II	10 points
Exam I	80 points
Writing activity for Section III	10 points
In-class activities	60 points (
Pathogen worksheet	70 points

Grading for the course will follow the APPROXIMATE scale of
>92% = A
>82% = B
>72% = C
>60% = D
<60% = F

The lecture topic schedule for the course is below:

Microbiology 330 Spring 2015 Lecture schedule

Week	Date	Lecture	Title	Activity/Assignment due
1	W Jan 21	1	Introduction	
	F Jan 23	2	Introduction	
2	M Jan 26	3	Examples of microbial Interactions	
	W Jan 28	4	Examples of microbial Interactions	
	F Jan 30	5	Examples of microbial Interactions	
3	M Feb 2	6	Examples of microbial Interactions	
	W Feb 4	7	Human microbe interactions: introduction	
	F Feb 6	8	Human microbe interactions: introduction	*In-class activity*
4	M Feb 9	9	Human microbe interactions: introduction	
	W Feb 11	10	Host response	
	F Feb 13	11	Host response	
5	M Feb 16	12	Human microbe interactions: pathogens	
	W Feb 18	13	Human microbe interactions: pathogens	
	F Feb 20	14	Human microbe interactions: pathogens	
6	**M Feb 23**		**Exam 1 lectures 1 – 14**	**EXAM**
	W Feb 25	15	Skin microbiota	
	F Feb 27	16	Skin pathogens	
7	M Mar 2	17	Skin pathogens	
	W Mar 4	18	Oral microbiota	
	F Mar 6	19	Oral pathogens	
8	M Mar 9	20	Oral pathogens	Pathogen profile 1 due
	W Mar 11	21	Nasopharynx and respiratory microbiota	
	F Mar 13	22	Respiratory tract pathogens	
9	M Mar 16	23	Respiratory tract pathogens	Pathogen profile 2 due
	W Mar 18	24	Respiratory tract pathogens	
	F Mar 20	25	Respiratory tract pathogens	
10	M Mar 23	26	Respiratory tract pathogens	
	W Mar 25		**Exam 2 lectures 15 – 26**	**EXAM**
	F Mar 27		No class	
11	**M Mar 30**		**Spring break**	
	W Apr 1		**Spring break**	
	F Apr 3		**Spring break**	
12	M Apr 5	27	Urogenital microbiota	
	W Apr 8	28	Urogenital pathogens	
	F Apr 10	29	Gastrointestinal microbiota	
13	M Apr 13	30	Gastrointestinal microbiota	Pathogen profile 3 due
	W Apr 15	31	Gastrointestinal microbiota	
	F Apr 17	32	Gastrointestinal microbiota	*In-class activity*
14	M Apr 20	33	Gastrointestinal pathogens	
	W Apr 22	34	Gastrointestinal pathogens	*In-class activity*
	Fri Apr 24	35	Gastrointestinal pathogens	
15	M Apr 27	36	Circulatory pathogens	Pathogen profile 4 due
	W Apr 29	37	Circulatory pathogens	
	Fri May 1	38	Circulatory pathogens	
16	Mon May 4	39	Circulatory pathogens	Pathogen profile 5 due
	Wed May 6	40	Nervous system pathogens	
	Fri May 8	41	Nervous system pathogens	

May 14: Exam 3 lectures 27 – 41