Fall 9-1-2001

MICB 495.01: Principles of Microbial Ecology I

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PRINCIPLES OF MICROBIAL ECOLOGY I
MICROBIOLOGY 495; FALL 2001

INSTRUCTORS: M. Rillig* (HS 510) and J. Gannon (HS 416A)

TEXT: Atlas and Bartha, Microbial Ecology 4th Edition
Brock: Biology of Microorganisms, 9th Ed.

COURSE WEBPAGE: There is a course web page that can be accessed through http://eres.lib.umt.edu. You can navigate to the course web page easiest by searching for instructor name Rillig. Announcements, Internet links, and readings may occasionally be posted on this web page.

EXAMS AND GRADING: There will be two exams and a final. Their dates will be announced early in the course. The exam format is short answer/essay. **Incompletes** will only be given for the reasons stated in the student handbook. **Graduate student** exams and other assignments are expected to reflect graduate level work and will be graded accordingly (more detail, very clear and concise, etc.) Only **letter grades** are given (no P or NP). The instructor will ONLY approve **drops** after the published drop date (Oct-15) for very specific reasons. Examples include: 1) A documented illness or family emergency that results in significant loss of class time 2) A documented significant change in work schedule.

Exams, 2 x 60 pt's. each		120
Final Exam (comprehensive)		100
Class projects (15 each)		60
Field Camp/ Project		100
	Total	400

*Primary Instructor

LECTURE TOPICS (subject to change)

Date		Topic	Atlas	Brock
Sept	4	Introduction		
	6	Principles of Microbiology		3-5
	11	Principles of Microbiology		12-13,15
	13	Principles of ecology		(16)
	18	Principles of ecology		
	20	Habitat – The microbial scale	9	
	25	Habitat - Diversity	9	
	27	Methods in Microbial Ecology	7	
Oct	2	Methods in Microbial Ecology	7	
	4	Exam		
	5-7	Field Camp		

	9	Field Follow-up, no lecture		
	11	Field Follow-up, no lecture		
	16	Field Follow-up, no lecture		
	18	Microbial Evolution and Diversity	2	12-13,15
	23	Microbial Evolution and Diversity	2	
	25	Guest Lecture - Diversity		
	30	Guest Lecture - Evolution		
Nov	1	Class Collaboration Project		
	6	Microbial Communities	3,6	
	8	Class Collaboration Project		
	13	Exam II		
	15	Microbial Communities	3,6	
	20	Class Collaboration Project		
	21-23	Physiological Ecology	8	
	27	Thanksgiving Holiday		
	29	Physiological Ecology	8	
Dec	4	Class Collaboration Project		
	6	Nutrient Cycling	10,11	
	11	Guest Lecture – Nutrient Cycling		
	13	Nutrient Cycling	10,11	
	X	Final Exam (schedule time)		