Class time/location: Mon, Thurs, 8:30 – 9:50, Engineering and Computer Sciences, ECS 123

Instructors: Dr. Doug Briant

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TBA

** available at other times by appointment **

Dr. Chris Upton

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Brock's Biology of Microorganisms (14th Edition), M. T. Madigan, J. M. Martinko, K. S. Bender, D. H. Buckley and D. A. Stahl. 2015, Pearson Education Inc.

: MMBBRIANT19011

** This resource is optional. . If you purchased a new textbook, it will include an access code for Mastering

Students will gain insight into historical events that initially identified microbes. Processes used to establish the role of microbes in important processes such as disease will also be examined and students will be able to compare these methods to modern techniques utilized in the field of microbiology.

The major structural components of bacteria, archae and eukaryotes will be described. Utilizing this information, students will be able to compare the structures between these organisms, and rationalize why they have evolved specific adaptations.

Conditions for growth of microbes, both in natural and laboratory settings will be examined. Students will demonstrate the ability to apply this knowledge to both identify and classify microbes. Additionally, students will learn to categorize microbes based on a variety of phenotypic and genotypic traits.

Metabolic pathways will be described in the context of microbes, and compared to more complex systems, particularly humans. The suitability of using bacteria as a model organism for higher order eukaryotic organisms will be appraised.

EVALUATION	Date
19% midterm exam 1	Thursday, October 01
19% midterm exam 2	Monday, November 02
19% final exam	
40% laboratory	
3% lecture participation (requires i>clicker)	***!*** ***!*** ***!***

Students are responsible for ensuring that they are properly registered in the course. Students are expected to have met all pre/co-requisites for the course (see above).

The total mark, calculated from the marks on all of the exams according to the weighting scheme above, will be converted to a percentage and then to a letter grade in the following way:

A^{+}	90 -100	**B^{+}**	77 - 79	**C^{+}**	65 - 69	**F**	< 50
A	85 - 89	**B**	73 - 76	**C**	60 - 64	**N ****	< 50
A^{-}	80 - 84	**B^{-}**	70 - 72	**D**	50 - 59		

** N grades

Students who have completed the following elements will be considered to have completed the course and will be assigned a final grade:

Failure to complete one or more of these elements will result in a grade of “N” regardless of the cumulative percentage on other elements of the course. An N is a failing grade, and it factors into a student’s GPA as 0. The maximum percentage that can accompany an N on a student’s transcript is 49

1. The Department of Biochemistry and Microbiology upholds and enforces the University's policies on academic integrity. These policies are described in the current University Calendar. All students are advised to read this section.

2. Cell phones, computers, and other electronic devices must be turned off at all times unless being used for a purpose relevant to the class. Students having a cell phone, tablet, or computer on their person during an exam will be assumed to have it for the purpose of cheating.

3.