

Biofilms I

BIOL 4610 FC

COURSE OUTLINE FALL 2014

Instructor

Dr. Heidi Schraft
Biology, CB4015
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Office hours

Wednesday: 11am - Noon
You can also email me to make an appointment.

Lectures

Wednesday
1:00 – 2:30pm
AT 2013

Content and Delivery

The course will cover various aspects related to biofilms in food, environmental and medical microbiology.

Prerequisite: Biology of Microorganisms (BIOL 2711).

There will be no exceptions to this prerequisite. Biofilms are formed by microorganisms, and basic knowledge of microbiology is essential.

The course requires independent on-line work on (D2L) and active participation in class discussions.

The course will use the on-line textbook: "Biofilms: The Hypertextbook"

<http://www.hypertextbookshop.com/biofilmbook/v005/r001/default.html>

There will be assigned weekly readings from the textbook and from peer reviewed journal articles to prepare for class discussion.

Each student will submit three written assignments that focus on a specific area of biofilm research.

The course does not have a laboratory component.

Performance Evaluation

<u>Activity</u>	<u>Weight</u>
Preparedness and participation in class	25%
Assignments (3 @ 25% each)	75%

Lecture Schedule

Date	Topic	Materials Due
Wed, Sept. 10	Introduction and Course Overview	
Wed, Sept. 17	Biofilms: History, Roles and Impact, and Characteristics, Chapter 1	
Wed, Sept. 24		Sept. 19: <i>Last day to add classes</i>
Wed, Oct. 1	Biofilm Growth and Development, Chapter 2	Assignment 1
Wed, Oct. 8		
Wed, Oct. 15		
Wed, Oct. 22	Biofilms in Health and Medicine, Chapter 4	Assignment 2
Wed, Oct. 29		
Wed, Nov. 5	Biofilms in Industry, Chapter 5	Nov. 4: <i>Final date for course withdrawal without academic penalty</i>
Wed, Nov. 12		
Wed, Nov. 19	Biofilm Control, Chapter 7	Assignment 3
Wed, Nov. 26		