

# FOOD MICROBIOLOGY

## Biology 5770

### COURSE OUTLINE WINTER 2014

---

---

**Instructor:**

Dr. Heidi Schraft  
Biology, CB4015  
Phone: 343-8351  
Email: heidi.schraft@lakeheadu.ca

**Office hours:** Wednesday 2-3pm, or email for an appointment

<b>Lectures</b>	Monday, Wednesday: 11:30am – 1:00pm ATAC 2019
-----------------	--------------------------------------------------

**Prerequisites:**

Biology 2711, or equivalent basic microbiology course, or permission of instructor

**Course content for Graduate Students:**

Please refer to the course outline of BIOL4770 for details of lectures, tests etc. and the applicable due dates.

Graduate students will attend all lectures of BIOL 4770, participate in CPS sessions, submit assignment #2, and write the quizzes and the final exam. They will not participate in the laboratory and therefore not receive any laboratory grade (worth 15%), and they will also not submit assignment #1, lab-report (worth 15%).

In lieu of these course components, graduate students will:

- a. Present a lecture to the class on a topic related to their thesis work, worth 10%.
- b. Submit a review paper on a topic related to their thesis work, worth 20%

**Performance Evaluation:**

<b><u>Activity</u></b>	<b><u>Weight</u></b>
<b>Class Participation (CPS)</b>	5%
<b>In-class quizzes</b> <i>Best two of the three count</i>	20%
<b>Assignment #2</b>	5%
<b>Review Paper</b>	20%
<b>Class Presentation</b>	10%
<b>Final exam</b>	40%

**Due dates for Review Paper and Presentation:**

<b>Due Date</b>	<b>Component</b>	
	<b><i>Review Paper</i></b>	<b><i>Class Presentation</i></b>
Jan. 24	Select a topic and title	Select a topic and title
Feb. 5	Submit outline	
Feb. 12		Submit outline
Feb. 26	Submit annotated bibliography and updated outline	
Mar. 7		Submit draft ppt file of presentation
March 26		Presentation
April 4	Submit final paper	

**Instructions for Class Presentation and Review Paper****Lecture to Class**

Prepare a lecture on your topic to be given to the BIOL4770 class. Your presentation should be 60-70 minutes long and build on information given in the textbook, but you should expand and include material from the literature. Also include several CPS questions. If applicable you can provide additional reading for the class.

When grading your presentation, I will be looking for a well-organized flow of topics, clarity of your explanations, and good use of ppt-slides (i.e. not too much text on each slide).

To be able to post on D2L and prepare the CPS session, I need the ppt-file of your presentation and the CPS questions 24 hours before class.

## **Review Paper**

Write a review article on this topic (15 to 20 pages). Start by reading information available in textbooks and then perform a comprehensive literature search. Submit an initial outline of the paper and use the feedback to prepare an annotated bibliography of relevant sources and the final outline of the paper (worth 5%). You will receive feedback on clarity and comprehensiveness. Use this feedback to complete the paper by the end of the semester.

## **Expectations for Outline and Annotated Bibliography**

### ***Outline***

Provide the major headings and a brief paragraph of the content for each heading

### ***Annotated bibliography***

Information on annotated bibliographies is here:

<http://www.writing.utoronto.ca/advice/specific-types-of-writing/annotated-bibliography>

The majority of the sources used for your paper need to be primary research papers; include only a few review papers or book-chapters.

List the references you have consulted/read for your paper. It may be easier to list references as they fit into the outline, rather than in alphabetical order (and this is acceptable). For each source, identify hypothesis/objectives, major methods and results, and conclusions. Then critically assess with respect to relevance and value for your paper.

## **Expectations for Final Paper**

Information on writing a literature review is here:

<http://www.writing.utoronto.ca/advice/specific-types-of-writing/literature-review>

Please note that your literature review should aim to be a “piece of discursive prose”. Thus try not to simply describe or summarize your references and connect them with a few sentences. Rather try as best as you can to “tell a story”. I know this is difficult, but it will help you to write an excellent review.

### ***Criteria for grading***

#### ***Content and ability to search the literature (8 / 30)***

Your paper should demonstrate that you have performed a fairly thorough search for scientific literature pertaining to the topic and that you have actually read and understood the findings reported in the journal articles.

#### ***Synthetic ability (15 / 30)***

I expect you to try to understand the scientific papers referenced well enough to integrate the information from several articles into your own perspective. Your essay should provide a good balance of general principles and actual practical examples that demonstrate these principles. Make sure to “tell your story”.

#### ***Organization/Structure (5 / 30)***

Your essay should include an introductory paragraph, a concluding paragraph as well as a body containing several supporting paragraphs. Use paragraphs to guide the reader through the text and to clearly convey the key point(s) you want to make.

#### ***Spelling, grammar, punctuation, citations (2 / 30)***

Make sure to use one consistent style to cite and reference articles, bookchapters and websites.