

FOOD MICROBIOLOGY

Biology 5770

COURSE OUTLINE WINTER 2020

Instructor:

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Office hours: Monday, Wednesday: 9 – 10 am
You can also email for an appointment.

Lectures	Monday, Wednesday: 1:00pm - 2:30pm, ATAC 2019
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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 i>clicker sessions, submit D2L assignments, 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 the 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 food microbiology and their thesis work, worth 10%.
- b. Submit a review paper on a topic related to related to food microbiology and their thesis work, worth 20%

Performance Evaluation:

<u>Activity</u>	<u>Weight</u>
Class Participation (i>clicker)	5%
D2L quizzes/assignments	5%
In-class quizzes <i>Best two of the three count</i>	25%
Review Paper	20%
Class Presentation	10%
Final exam	35%

Due dates for Review Paper and Presentation:

Due Date	Component	
	<i>Review Paper</i>	<i>Class Presentation</i>
Jan. 22	Select a topic and title	Select a topic and title
Feb. 5	Submit outline	
Feb. 14		Submit outline
Feb. 24	Submit annotated bibliography and updated outline (
Mar. 18		Submit draft ppt file of presentation
March 30		Presentation
April 5	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 i>clicker 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 i>clicker session, I need the ppt-file of your presentation and the i>clicker questions (including correct answers) 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 (5 / 20)

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 (10 / 20)

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 (3 / 20)

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 / 20)

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