

# HONORS SUPPLEMENTAL SYLLABUS\*\*

**COURSE/TITLE/UNITS:** BIOL 220: MICROBIOLOGY, 5 UNITS  
**INSTRUCTOR:** Eddie Chang

**In addition to the regularly assigned coursework on the syllabus, the student will complete the following:**

## DESCRIPTION OF HONORS REQUIREMENTS

Students enrolled in the Honors section of Biology 220 are required to produce a written and oral review of a specific topic in the field of microbiology. This review must be prepared to the standards expected of similar articles found in reputable, peer-reviewed journals in the field of microbiology. Successful completion of the Honors requirements includes the following:

- 1. Reading Requirement:** students are required to read research articles from peer-reviewed journals on the "Topic of Interest" to gain an understanding of their topic, including the latest developments in the area. Students are also expected to read any additional materials which will help them to choose a topic of interest and to gain information about their topic. Students are expected to read at least 5-6 peer-reviewed research articles plus 2-3 review articles to gain sufficient knowledge of the topic.
- 2. Writing Requirement – Topic of Interest:** Student will write a **review article** on a topic of interest, reached in consultation with the instructor. This article will summarize the historical and current developments in the topics and may speculate on possible future developments in the area. The content of the review will be based on information obtained from peer-reviewed journal articles. The review should also include the students' interpretation of the literature and testable hypothesis for future research. Though reviews vary in length, it is likely that at least 7-10 pages are needed to adequately address the requirements mentioned above. Similarly, a substantive review should consist of commentary on at least 5-6 primary research papers plus additional sources (for example, monographs or reviews). Reviews commonly cite at least 15-20 references. A bibliography using the proper citation format will be expected.
- 3. Presentation to Class:** students are required to prepare a verbal 15-30 minute presentation of their topic of interest to the class. The student must use visual aids such as powerpoint, prezi or their equivalent. The student can also use the whiteboard and the smart classroom tools. Students are also expected to answer questions from the class.
- 4. Office Hour Contacts:** The student will arrange to meet with the instructor a minimum of 4 times during the semester for guidance in: 1) choosing a topic 2) research/literature review 3) discussing your progress and 4) any other issues you may encounter (for example, advice on the class presentation)
- 5. Participation in Library Research Seminar:** Students must also attend a seminar on literature research methods offered by the reference librarians. A student may either arrange this individually with the research librarians (the seminar would be tailored to the student's topic) or through the instructor (in which case all students enrolled in the honors section will attend the seminar as a group)

**OBJECTIVES:** *Upon successful completion of the course the student will be able to accomplish the learning objectives stated in the regular syllabus and the objectives listed below for the Honors contract:*

1. Demonstrate the ability to evaluate, interpret and synthesize scientific information from various sources (ILO2/SLO1)
2. Demonstrate the ability to conduct literature research in the sciences
3. demonstrate understanding of a specific topic in the area of microbiology
4. demonstrate the ability to give a coherent and informative verbal presentation

## REGULAR COURSE REQUIREMENTS

4 Examinations	400 points
2 lab quizzes/practicals	55 points
2 unknown identification laboratory projects	145 points

REFERENCE: Honors Supplemental Syllabus Sample ANTH 102.docx

2 hands-on laboratory skills demonstrations	55	points
Other lab/lecture activities or assignments	50	points
Lab notebook	25	points
<b>Total Regular Points:</b>		<b>730 points</b>

**HONORS SUPPLEMENTAL COURSE REQUIREMENTS**

1 Review paper	140	points	HONORS
1 Verbal presentation	50	points	HONORS
participation in library seminar	10	points	HONORS
Office Hour Contacts (5pts each)	20	points	HONORS
<b>Total Honors Points:</b>		<b>220points</b>	
<b>Maximum points achievable:</b>		<b>950 points</b>	

**Honors Points: 220/950 = 23% extra course work**

**\*\* NOTE: Please assess your class schedule, workload, and non-school related responsibilities prior to signing the Honors contract. Once you sign the Honors Contract you must complete the semester as an Honors Student. You cannot switch back to the Non-Honors course.**