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## Supplemental Materials

for

### Communicating Microbiology Concepts from Multiple Contexts through Poster Presentations

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APPENDIX 1: Suggested reading list: microbiology-oriented books

1. *Bacteria and Bayonets: The Impact of Disease in American Military History* – David Petriello
2. *The Demon Under the Microscope: From Battlefield Hospitals to Nazi Labs, One Doctor's Heroic Search for the World's First Miracle Drug* – Thomas Hager
3. *Eye of the Beholder: Johannes Vermeer, Antoni van Leeuwenhoek, and the Reinvention of Seeing* – Laura J. Snyder
4. *The Genius Within: Discovering the Intelligence of Every Living Thing* – Frank T. Vertosick, Jr.
5. *The Ghost Map: The Story of London's Most Terrifying Epidemic – and How It Changed Science, Cities, and the Modern World* – Steven Johnson
6. *Guns, Germs, & Steel: The Fates of Human Societies* – Jared M. Diamond
7. *I Contain Multitudes: The Microbes Within Us and a Grand View of Life* – Ed Yong
8. *Lab 257: The Disturbing Story of the Government's Secret Germ Laboratory* – Michael C. Carroll
9. *Missing Microbes: How the Overuse of Antibiotics is Fueling Our Modern Plagues* – Martin J. Blaser
10. *The Mold in Dr. Florey's Coat: The Story of the Penicillin Miracle* – Eric Lax

Alternatively, you may also choose a book of your choice not listed above if you receive prior approval by the instructor.

APPENDIX 2: Course project rubric

<b>Environmental Engineering Microbiology: Course Project Rubric</b>				
	<b>(4 points each)</b>	<b>(3 points each)</b>	<b>(2 points each)</b>	<b>(1 point each)</b>
<b>Visual Requirements</b>	Poster is visually clear from a distance	Poster is fairly readable from a distance	Portions of the poster are not readable from a distance	Poster is difficult to read and is not clear from a distance
	Design and layout is excellent and creative	Design and layout is visually appealing	Design and layout is standard and commonplace	Design and layout is not visually appealing and does not show creativity
	Grammar and spelling is accurate	Minor mistakes with grammar and/or spelling	Many punctuation, spelling, grammar, etc. errors	Numerous errors throughout the text
	Graphs, Charts, and Figures clearly enhance the information	Graphical images are used to clarify poster information	Little use of graphics to supplement text	Irrelevant use of graphics or no graphics used at all
	<i>TOTAL:</i>	<i>TOTAL:</i>	<i>TOTAL:</i>	<i>TOTAL:</i>
<b>Subject Matter Requirements</b>	Selected an innovative thesis based on the chosen book	Selected a good thesis based on the chosen book	The thesis does not adequately relate to the chosen book	Poorly chosen topic that does not relate well to the book
	Developed and expanded upon the thesis by clearly relating it to environmental engineering	The topic adequately relates to environmental engineering	Only a small portion of the topic selected from the book relates to environmental engineering	Thesis is not well developed and is unclear how it relates to environmental engineering microbiology
	Selected additional sources that enhance the thesis and clearly show how environmental engineering relates to the topic	Selected additional sources that adequately expand upon the thesis and show how environmental engineering relates to the topic	Additional sources do not adequately relate to the topic selected and do not relate to environmental engineering	Sources do not relate well to the topic or there are additional sources at all
	Used course information to expand upon information found in the chosen book	Used course information to confirm information found in the chosen book	Course information does not adequately relate to the chosen book	Course information inadequate or not utilized
	<i>TOTAL:</i>	<i>TOTAL:</i>	<i>TOTAL:</i>	<i>TOTAL:</i>
<b>Presentation Requirements</b>	Presented within the required time limit of 10-15 minutes	Presented 1-3 minutes over or under the time requirement	Presentation length is too long or too short	Inadequate presentation length
	Presented information eloquently in a clear order that enhances the subject matter	Presented in a logical order that can easily be followed	Difficulty presenting due to lack of organization in presentation	Unable to follow presentation due to illogical order of presenting information
	Nonverbal skills (eye contact, body language, mannerism) are exceptionally expressed	Displayed adequate nonverbal skills	Displayed awkward nature during presentation	Distracted during presentation and did not express adequate nonverbal communication
	Answers all questions concisely and with clarity	Able to answers all questions	Unable to answer all questions	Does not adequately answer questions
	<i>TOTAL:</i>	<i>TOTAL:</i>	<i>TOTAL:</i>	<i>TOTAL:</i>
<b>Project Requirements</b>	Utilized at least two peer-reviewed journal articles	Utilized one peer-reviewed journal article	Did not utilize articles in peer-reviewed journals	Did not utilize supplementary sources
	Utilized at least one news article that clearly related to the subject matter	Utilized one news article that slightly related to the subject matter	News article did not relate to the subject matter	Did not utilize a news article
	Cited course information that enhanced the thesis of the project	Cited course/textbook information that related to the subject matter	Cited course information that did not relate to the subject matter	Did not reference course information
	Listed all references used on the poster in APA formatting	Listed some of the references used in APA formatting	Cited references incorrectly	Did not cite references on the poster
	<i>TOTAL:</i>	<i>TOTAL:</i>	<i>TOTAL:</i>	<i>TOTAL:</i>
			<b>OVERALL SCORE: _____ out of 64</b>	