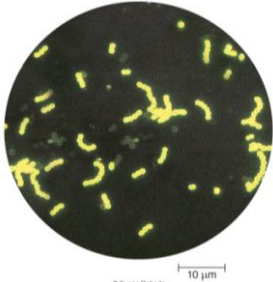
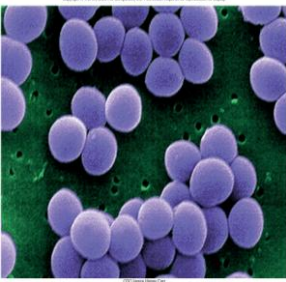
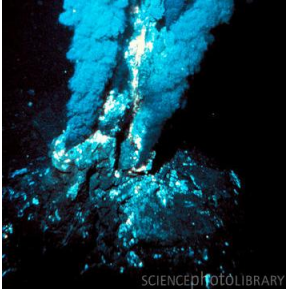
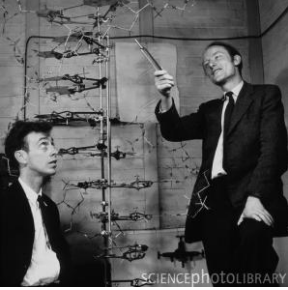

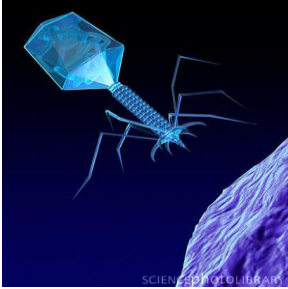



UNIT 1 – FUNDAMENTALS OF MICROBIOLOGY

Week	Topic	Task 1: Lectures – to be done by you at home	Task 2: Quizzes and Assignments – to be done ONLINE	Task 3: Discussion board – to be done ONLINE
1	<p>Topic 1. Human and the Microbial World (chapter 1)</p>  <p>Topic 2. The Prokaryote Cell (chapter 3)</p> 	<p>Pages 1 - 15 in your textbook</p> <p>Pages 50 – 68 in your textbook</p> <p>a. Work through the powerpoint lectures by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>	<p>a. Please watch the following clip on macromolecules:</p> <p>Macromolecules</p> <p>b. Now watch the following clip on prokaryotes:</p> <p>Prokaryotes</p>	<p>Discussion topic: Post a short autobiography, telling us your name, your career plan and why you are doing a hybrid class.</p> <p>Discussion opens Wednesday 8am. Post your own discussion by Saturday 5pm and your responses to others by Monday, 5pm</p>
2	<p>Topic 3. Microbial Growth (chapter 4)</p>  <p>Topic 4. Microbial Metabolism (chapter 6)</p>	<p>Pages 80 – 97 in your textbook</p> <p>Pages 126 – 148 in your textbook</p> <p>a. Work through the power point lectures by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>	<p>a. Watch the following video to refresh your knowledge on enzyme activity:</p> <p>Enzyme activity</p> <p>b. Watch this quick video on bacterial growth:</p> <p>Bacterial growth</p>	<p>Discussion topic: Do you think infection with a Gram-positive organism is more or less serious than one with a Gram-negative organism? Consider the nature of the bacterial cell wall when you engage in this discussion.</p> <p>Discussion opens Wednesday 8am. Post your own discussion by Saturday 5pm and your responses to others by Monday, 5pm</p>




3	<p>Topic 5. Blueprint of Life (chapter 7)</p> 	<p>Pages 151 - 182 in your textbook</p> <p>a. Work through the power point lectures by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>	<p>Please watch the following animations after you have worked through Task 1 for this week:</p> <p>DNA replication</p> <p>DNA replication animation</p> <p>Transcription</p> <p>Transcription animation</p> <p>Translation</p> <p>Translation animation</p>	<p>No formal discussion this week. Open for any free discussion</p>
4	<p>Topic 6. Bacterial Genetics (chapter 8)</p> 	<p>Pages 188 - 212 in your textbook</p> <p>a. Work through the power point lectures by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>	<p>a. Please watch this video on the development of antibiotic (antimicrobial) resistance.</p> <p>Bacterial resistance</p>	<p>No formal discussion this week. Open for any free discussion</p>
5	<p>Topic 7 – Viruses, viroids and prions (chapter 13)</p> 	<p>Pages 304 - 330 in your textbook</p> <p>a. Work through the power point lectures by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>	<p>a. Please watch these animations:</p> <p>Lytic life cycle</p> <p>Lysogenic life cycle</p>	<p>Discussion topic: Read the Wikipedia article on phage therapy. Discuss phage therapy: what is it? What are the possible pros and cons of this approach to treating disease?</p> <p>Phage therapy</p> <p>Discussion opens Wednesday 8am. Post your own discussion by Saturday 5pm and your responses by Monday, 5pm</p>


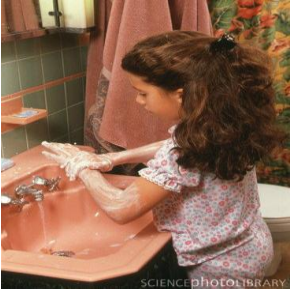
UNIT 2 – INTERACTION BETWEEN MICROBE AND HOST

<p>6</p>	<p>Topic 8. Innate Immunity (chapter 14)</p> 	<p>Pages 334 - 351 in your textbook</p> <p>a. Work through the power point lecture by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>	<p>Please watch the following:</p> <p>Phagocytosis</p> <p>The complement system</p>	<p>No formal discussion this week. Open for any free discussion</p>
<p>7</p>	<p>Topic 9. Adaptive Immunity (chapter 15)</p> 	<p>Pages 354 - 378 in your textbook</p> <p>a. Work through the power point lecture by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>	<p>Please watch the following:</p> <p>Adaptive immune response</p>	<p>No formal discussion this week. Open for any free discussion</p>
<p>8</p>	<p>Topic 10. Host-microbe Interactions (chapter 16)</p>  <p>Topic 11. Immunologic Disorders (chapter 17)</p>	<p>Pages 380 - 397 in your textbook</p> <p>Pages 401 - 416 in your textbook</p> <p>a. Work through the power point lecture by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>		<p>Read the article on the hygiene hypothesis. What is this hypothesis. Is it valid? Would you use it?</p> <p>Hygiene hypothesis</p> <p>Discussion opens Wednesday 8am. Post your own discussion by Saturday 5pm and your responses by Monday, 5pm</p>

9	<p>Topic 12. Applications of the Immune Response (chapter 18)</p>  <p>Topic 13. Epidemiology (chapter 19)</p>	<p>Pages 419 - 427 in your textbook</p> <p>Pages 437 - 452 in your textbook</p> <p>a. Work through the power point lectures by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>		<p>No formal discussion this week. Open for any free discussion</p>
---	--	---	--	---

UNIT 3. MICROBES AND HUMAN DISEASE

<p>10</p>	<p>Topic 14. Respiratory System Infections (chapter 21)</p>  <p>Topic 15. Skin Infections (chapter 22)</p>	<p>Pages 483 - 518 in your textbook</p> <p>Pages 521 - 546 in your textbook</p> <p>a. Work through the power point lecture by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>		<p>Discussion topic: Please read the following CDC page about <i>Klebsiella</i>, an antibiotic resistant organism: Resistance in Klebsiella</p> <p>Comment on antibiotic resistance, and discuss what you think can be done to prevent the development of other resistant organisms.</p> <p>Discussion opens Wednesday 8am. Post your own discussion by Saturday 5pm and your responses to others by Monday, 5pm</p>
<p>11</p>	<p>Topic 16. Wound Infections (chapter 23)</p>  <p>Topic 17. Digestive System Infections (chapter 24)</p>	<p>Pages 548 - 568 in your textbook</p> <p>Pages 571 - 608 in your textbook</p> <p>a. Work through the power point lecture by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>		<p>No formal discussion this week. Open for any free discussion</p>
<p>12</p>	<p>Topic 18. Genitourinary Infections (chapter 25)</p> 	<p>Pages 611 - 638 in your textbook</p> <p>Pages 641 - 667 in your textbook</p> <p>a. Work through the power point lecture by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>		<p>No formal discussion this week. Open for any free discussion</p>

	<p>Topic 19. Nervous System Infections (chapter 26)</p>			
13	<p>Topic 20. Blood and Lymphatic Infections (chapter 27)</p>  <p>Topic 21. HIV and Complications of Immunodeficiency (chapter 28)</p>	<p>Pages 670 - 691 in your textbook</p> <p>Pages 694 - 716 in your textbook</p> <p>a. Work through the power point lecture by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>		<p>No formal discussion this week. Open for any free discussion</p>
14	<p>Topic 22. Control of Microbial Growth (chapter 5)</p>  <p>Topic 23. Antimicrobial Medications (chapter 20)</p>	<p>Pages 107 - 122 in your textbook</p> <p>Pages 457 - 478 in your textbook</p> <p>a. Work through the power point lecture by Friday 5pm.</p> <p>b. Read through the summary notes. Complete this by Sunday 5pm.</p>	<p>a. Watch this video on hand washing:</p> <p>Handwashing</p>	<p>Discussion topic:</p> <p>Please read the article on hospital-acquired infections (HAIs): HAIs</p> <p>Discuss HAIs – what are they, how are they classified, how are they prevented, and what are the social and economic burden of these infections.</p> <p>Discussion opens Wednesday 8am. Post your own discussion by Saturday 5pm and your responses to others by Monday, 5pm</p>