BIOL 3702: Microbiology Lecture Schedule

Disclaimer Notice: Serious effort and consideration were used in formulating this calendar. While viewed as an educational contract between the course instructor and student, unforeseen events may cause changes to the scheduling of lectures, examinations, etc. Every effort will be made NOT to change scheduled items. Nonetheless, the course instructor reserves the right to make any changes deemed necessary to best fulfill the course objectives. Such changes will be announced to registered students in a timely fashion using reasonable means. This disclaimer does not abrogate any student rights granted by the University.

Monday, May 22nd

Introduction to Biology 3702

Lecture Topic: The History and Scope of Microbiology
Assignment: Chapter 1, pages 1-15

Wednesday, May 24th

Lecture Topic: The Study of Microbial Structure: Microscopy and Specimen Preparation
Assignment: Chapter 2, pages 17-34

Lecture Topic: Procaryotic Cell Structure and Function I
Assignment: Chapter 3, pages 39-63 and 68-71

Friday, May 26th

Lecture Topic: Procaryotic Cell Structure and Function II
Assignment: Chapter 3, pages 39-63 and 68-71

Lecture Topic: Eucaryotic Cell Structure and Function II
Assignment: Chapter 4, pages 73-86 and 88-91

Monday, May 29th

Lecture Will Not Meet – Memorial Day Holiday

Wednesday, May 31st

Quiz I [10 points] – covers Chapters 1 through 3

Lecture Topic: Eucaryotic Cell Structure and Function II
Assignment: Chapter 4, pages 73-86 and 88-91

Lecture Topic: Microbial Nutrition
Assignment: Chapter 5, pages 93-104
Friday, June 2nd

**Examination I [90 points] – covers Chapters 1 through 5**

**Lecture Topic:** Microbial Growth  
**Assignment:** Chapter 6, pages 109-112, 114-117, and 118-131

**Lecture Topic:** Control of Microorganisms by Physical and Chemical Agents  
**Assignment:** Chapter 7, pages 133-146

Monday, June 5th

**Lecture Topic:** Metabolism: Energy, Enzymes, and Regulation  
**Assignment:** Chapter 8, pages 149-165

**Lecture Topic:** Metabolism: Energy Release and Conservation I  
**Assignment:** Chapter 9, pages 167-179

Wednesday, June 7th

**Quiz I [10 points] – covers Chapters 6 through 8**

**Lecture Topic:** Metabolism: Energy Release and Conservation II  
**Assignment:** Chapter 9, pages 179-197

**Lecture Topic:** Metabolism: The Use of Energy in Biosynthesis  
**Assignment:** Chapter 10, pages 199-204 and 209-216

Friday, June 9th

**Examination II [90 points] – covers Chapters 6 through 10**

Monday, June 12th

**NOTE:** In class assignments for the later half of the course, worth 20 points towards your final course score, will be given. Specific details and due dates will be announced.

**Lecture Topic:** Genes in Bacteria  
**Assignment:** Chapters 11, 12, and 13 (specific text pages to be announced)

Wednesday, June 14th

**Lecture Topic:** The Viruses: Introduction and General Characteristics  
**Assignment:** Chapter 16, pages 349-369

**Lecture Topic:** The Viruses: Bacteriophages  
**Assignment:** Chapter 17, pages 371-385

**Lecture Topic:** The Viruses: Viruses of Eucaryotes  
**Assignment:** Chapter 18, pages 387-407
Friday, June 16th

**Lecture Topic:** Microbial Taxonomy  
**Assignment:** Chapter 19, pages 409–434

**Lecture Topic:** The Archaea  
**Assignment:** Chapter 20, pages 437-451

**Lecture Topic:** Bacteria: The Deinococci and Nonproteobacteria Gram Negatives  
**Assignment:** Chapter 21, pages 453-471

Monday, June 19th

**Lecture Topic:** Bacteria: The Proteobacteria  
**Assignment:** Chapter 22, pages 473-476, 485-494, and 500

**Lecture Topic:** Bacteria: The Low G+C Gram Positives  
**Assignment:** Chapter 23, pages 503-518

**Lecture Topic:** Bacteria: The High G+C Gram Positives  
**Assignment:** Chapter 24, pages 521-534

Wednesday, June 21st

**Examination III [90 points] – covers Chapters 11 through 13 and 16 through 22**

**Lecture Topic:** Normal Microbiota and Nonspecific Host Resistance  
**Assignment:** Chapter 31, pages 673-702

**Lecture Topic:** Specific (Adaptive) Immunity I  
**Assignment:** Chapter 32, pages 705-715

Friday, June 23rd

**Lecture Topic:** Specific (Adaptive) Immunity II  
**Assignment:** Chapter 32, pages 718-736

**Lecture Topic:** Medical Immunology  
**Assignment:** Chapter 33, pages 739-751

Monday, June 26th

**Lecture Topic:** Selected Human Diseases Caused By Viruses  
**Assignment:** Chapter 38, pages 845-872

Wednesday, June 28th

**Lecture Topic:** Selected Human Diseases Caused By Bacteria  
**Assignment:** Chapter 39, pages 875-910

Friday, June 30th

**Examination IV [90 points] – covers Chapters 23, 24, 31 through 33, 38, and 39**