COURSE DESCRIPTION

This course examines biochemical reactions in living systems, investigating functional groups, essential compounds, and metabolic pathways in eukaryotic cells. Biochemistry is foundational to understanding the chemical dynamics of physiology, nutrition, pharmacology and herbology.

LEARNING OBJECTIVES

The student will come to understand the organization and interaction of functional groups in biochemical reactions and will be able to understand the flow of metabolic pathways.

COURSE PREREQUISITIES

Chemistry

REQUIRED TEXTS


Biochemistry Course Manual– see [EmperorsWesternScience.wordpress.com](http://EmperorsWesternScience.wordpress.com) to purchase

RECOMMENDED TEXTS


COURSE REQUIREMENTS

Module 1 exam = 50%
Module 2 exam = 50%

GRADING SCALE: 100-90% A, 89-80% B, 79-70% C, 69% and below F

SPECIAL NOTES

No texting or phone use permitted in class. No video recording is permitted under any circumstances.

Professionalism and Full and Prompt Attendance: To pass any course (separate from academic performance) all students must meet requirements for professionalism in coursework. Professionalism includes full and prompt attendance: students who miss more than 2 class meetings in a 10-week course or 1 class meeting in a 7-week course will earn an F in that course. Additionally, students who arrive more than 15 minutes to class or leave class before it ends will be given ½ absence towards attendance. NOTE: Students who leave and return to class late from a break or leave during the class (especially if this is repeated) or who disrupt the class in other ways may earn an F in that class and/or be referred to the Academic Dean for professionalism.
EMPEROR’S COLLEGE  
MTOM COURSE SYLLABUS  
BIOCHEMISTRY

Course Code: WS210  
Units: 3  
Dr. Downie  
Fall 2017

CLASS ONE (The syllabus is subject to change at the discretion of the instructor.)  
Enzymes, Carbohydrates I  
Assignment: Lippincott’s Illustrated Reviews pp. 53-68, 69-172

CLASS TWO  
Carbohydrates II  
Assignment: Lippincott’s Illustrated Reviews pp. 69-172

CLASS THREE  
Carbohydrates III  
Assignment: Lippincott’s Illustrated Reviews pp. 69-172

CLASS FOUR  
Proteins I  
Assignment: Lippincott’s Illustrated Reviews pp. 1-68, 245-257, 441-434

CLASS FIVE  
Proteins II  
Assignment: Lippincott’s Illustrated Reviews pp. 1-68, 245-257, 441-434

CLASS SIX  
MODULE 1 EXAM

CLASS SEVEN  
Lipids I  
Assignment: Lippincott’s Illustrated Reviews pp. 173-244

CLASS EIGHT  
Lipids II  
Assignment: Lippincott’s Illustrated Reviews pp. 173-244

CLASS NINE  
Nucleic Acids I  
Assignment: Lippincott’s Illustrated Reviews pp. 291-306

CLASS TEN  
Nucleic Acids II  
Assignment: Lippincott’s Illustrated Reviews pp. 291-306, 395-430

CLASS ELEVEN  
MODULE 2 EXAM

REFERENCE MATERIAL  
will be provided as necessary

FACULTY INFO  
Please contact Dr. Downie with questions at docdownie.emperors@gmail.com  
Check for Course notes, materials and Course Manual links at EmperorsWesternScience.wordpress.com