



## SLCA SYLLABUS 2018-19

### MICROBIOLOGY

#### **Mission Statement:**

SouthLake Christian Academy exists for the sake of God's glory and mission; proclaiming the gospel and discipling the whole person in all aspects of God's reality.

#### **Course Description:**

Microbiology is the study of microorganisms. This course will introduce the student to the everyday interactions of microbes and the environment. The course material builds on concepts introduced in Biology. Topics will include the diversity of microbes (including bacteria, protists, fungi, algae, and viruses), microbial diseases, methods of microbe control, the workings of our incredible God-given immune system, and ways microbes benefit society. A variety of laboratory exercises, including bacterial staining procedures and microscope work, will reinforce course content. *Students will take midterm and final exams.*

#### **Course Objectives:**

Microbiology study will allow students to explore a specific area of biology. Upon completing this course students will have a working understanding of how microbes grow and are controlled. Students will be able to apply knowledge of microbes to real situations such as food safety and biochemical uses of microbes. These skills will prepare students to go on to further study as well as give them useful skills to be educated consumers.

**Required Text:** Microbes and Society by Edward Alcamo, 2003. *provided by SLCA*

#### **Evaluation**

**Homework:** Homework and class work will make up 10% of the overall grade. Homework will be assigned and checked for completion according to the following:

- Complete and thorough – 100%
- Minimal omission – 80%
- Half complete – 50%
- Less than half or not submitted - 0%

#### **Quizzes:**

1. Students are expected to make up any quiz missed due to absence, according to the following policy:
  - 1 day absent (day of quiz) – make-up first day back in class
  - 2 or more days absent - You have the number of days absent to make up the quiz.
2. Quizzes made up on time will receive full credit. Quizzes not made up on time will receive **zero** credit.

**Test Make-up Policy: \*\*\*ALL MAKE-UP TESTS WILL BE IN SHORT ANSWER AND ESSAY FORMAT\*\*\***

If a student comes in to school late and as a result has missed a test, the student will immediately report to the office to make-up that test.

Students have **ONE** day for each day absent (excused) to makeup all tests and quizzes. If the test/quiz is not made up in this period, **10 pts will be deducted** from the final test/quiz grade **for**

**each day past the makeup day.** Students should meet with their teacher(s) ASAP to request alternate arrangements if they do not have a study hall or have multiple assessments to complete.

All tests/quizzes are made up during the assigned test makeup period or other study hall. Students may NOT miss a scheduled class to make up a test. If students make up a test or quiz during a study hall other than the assigned test makeup period, they must go with a pass from their study hall teacher to the office to take it.

- **Grade Distribution --**                    10% Homework  
    20% Quizzes and Lab Reports  
    70% Tests
  
- **Final Semester Grades –**            80% Semester Grade  
    20% Semester Exam

### **Classroom Expectations:**

#### Behavioral Expectations

- Be respectful of others. *Do nothing out of selfish ambition or vain conceit. Rather, in humility value others above yourselves... (Philippians 2:3)*
  - Listen when others are speaking.
  - Use your words to build up and not tear down. *Let no corrupting talk come out of your mouths, but only such as is good for building up, as fits the occasion, that it may give grace to those who hear. (Ephesians 4:29)*
  - Avoid complaining. *Do all things without grumbling or disputing...(Philippians 2:14)*
- Be safe: follow all safety rules in the lab.

#### Academic Expectations

Work diligently, as unto the Lord. *Whatever you do, work at it with all your heart, as working for the Lord, not for human masters... (Colossians 3:23)*

- Be prepared with books, notes, paper, pencils, planner, etc.
- Engage your mind, participating fully in class.

Bear responsibility for your own success.

- Ask questions when you don't understand.
- Actively seek to obtain information and assignments you missed when absent.
- Expect to learn from reading and assignments; avoid treating them as mere busy work.

### **Required Supplies**

- Pencils and pens – **blue or black ink only**
- **8 ½" x 11" Spiral-bound** sketch book (smaller-size sketch books not acceptable)
- Color pencils for sketches
- **1 package #2 pencils (turn in for classroom use)**