

## Course Information

---

Number:	SC215
Name:	Cellular Biology
Description:	Cell biology surveys the structure and functions of cells with emphasis on genes and their interactions on those mechanisms by which cells signal to each other, both in the nervous system and elsewhere.
Credit(s):	3
Offered (DAY schedule):	
Instructor Permission Required:	N
Pre-Requisite(s):	

---

## Course Objectives

After completing this course, students will be able to: 1. Develop a working knowledge of cellular structure and function. 2. Comprehend cellular energy utilization and the inter-relatedness of plants and animals. 3. Have a basic understanding of genetics and the unity of living organisms. 4. Appreciate the cellular basis of human physiology. 5. Foster an enduring interest and curiosity about science and the world around us.

## Cellular Biology SC215

**Instructor:** Joe Scozzafava, MD, Professor of Science  
Office: 120B; Cell 399-6903; Home Phone: 474-2855; scozzafavaj@thomas.edu

**Textbook:** "Biology- The Core" 2<sup>nd</sup> Edition, by Eric Simon.

### **Course Description:**

We will study the structure and function of the cell, in both uni-cellular and multi-cellular organisms.

### **Course Objectives:**

1. Develop a working knowledge of cellular structure and function.
2. Comprehend cellular energy utilization and the inter-relatedness of plants and animals.
3. Have a basic understanding of genetics and the unity of living organisms.
4. Appreciate the cellular basis of human physiology.
5. Foster an enduring interest and curiosity about science and the world around us.

### **Course topics may include:**

1. Scientific method, chemical bonds, biologic molecules, basic microscopy
2. Cell structure & function, plant & animal cells, protists, cell membrane & transport
3. Cellular utilization of energy: cellular respiration & photosynthesis, yeast & fermentation
4. Cell division and reproduction, genetics, dominant & recessive traits
5. DNA, mutations, genetic disease, protein synthesis

### **Grades:**

5 Unit Tests (see Moodle for Study Guides & tentative dates),

Final Exam (optional for 90 or better average)

If you must miss an exam, please contact me ahead of time to make arrangements to take a make-up test.

Make up tests are generally given the next day during my office hours at 8:00 AM.

### **Attendance:**

You are expected to attend all classes and to arrive for class on-time. Excessive lates can lower your grade.

Please let me know if you are going to miss a class. Please do not leave the room during class except for emergencies.

If you have concerns about any lab activity, please let me know.

### **Academic Honesty Policy:**

This course follows the Academic Honesty Policy as written in the Thomas College Handbook.

Academic Dishonesty may result in failing an assignment, a test, or the course.

Examples of Academic Dishonesty include:

- Giving or receiving information regarding a test.
- Using any type of electronic device, cell phone, iPod, etc. during a test.
- Making a copy, photo or other representation of a test, or removing a test from the classroom.
- Copying others' work.
- Collaborating on work without professor's approval.

### **Miscellaneous:**

For health & safety reasons, please do not consume food or drink in the Davis Science Lab.

No use of cell phone, iPod, computer or other electronic devices during class except for course work.

If you are having any difficulty in this class or have any questions, please contact me as soon as possible.

A Science Tutor and Academic Coach are available through the Student Success Center.

Thank you for taking this course, if you have any questions please do not hesitate to contact me.

### **Thomas College Diversity Statement:**

Thomas College is committed to promoting a diverse community in an atmosphere of mutual respect. We recognize and appreciate diversity in relation to race, color, national origin, religion, sex, sexual orientation, gender identity and expression, veteran status, age, socioeconomic status, and disability. Prominent among the values that define the Thomas College community is civility, which includes mutual respect, fairness, and appreciation of differences. All members of the college are called upon to promote and value this ethic of common respect and civility.