Professor – Natasha Stracener
Lecture: Face to face    Lab: Online
Email: NatashaStracener@dcccd.edu
Office Number: H126  Office Hours: M 9:00 AM – 11:00 AM; Th 9:00 AM – 12:00 PM
Meeting Days/Time: W15  Lecture:  M W 1:00 PM – 3:30 PM   Lab: Online
Credit Hours: 4 Semester Hours
Science, Technology, Engineering and Math (STEM) Office Phone: 214-860-8649, 214-860-8760
Division Office Location: H129, Monday – Friday:  8:00 a.m. – 5:00 p.m.
Mission Statement: Mountain View College empowers people and transforms communities.

Course Description:
Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Study and examination of the concepts of cytology, reproduction, genetics, and scientific reasoning are included. Laboratory activities will reinforce these concepts. (3 Lec., 3 Lab.)

Course Pre-requisites
College level ready in Reading and Writing

Course Materials/Supplies Needed
• May purchase hardcopy from Bookstore
• eScience lab kit 1810. May be purchased directly from eSciencelabs.com or Mountain View College bookstore. Instructions for each method can be found on Blackboard.

Core Objectives
• Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
• Communication Skills - to include effective development, interpretation and expression of ideas through written, oral and visual communication
• Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
• Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

Student Learning Outcomes for Lecture
After successful completion of this course the student will be able to:
• Describe the characteristics of life
• Explain the methods of inquiry used by scientists
• Identify the basic requirements of life and the properties of the major molecules needed for life
• Compare and contrast the structures, reproduction, and characteristics of viruses, prokaryotic cells and eukaryotic cells.
• Describe the structure of cell membranes and the movement of molecules across a membrane.
• Identify the substrates, products, and important chemical pathways in metabolism.
• Identify the principles of inheritance and solve classical genetics problems.
• Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.
• Describe the unity and diversity of life and the evidence for evolution through natural selection.
Student Learning Outcomes for Lab
• Apply scientific reasoning to investigate questions and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.
• Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.
• Communicate effectively the results of scientific investigations.
• Describe the characteristics of life.
• Explain the methods of inquiry used by scientist.
• Identify the basic properties of substances needed for life.
• Compare and contrast the structures, reproduction, and characteristics of viruses, prokaryotic cells, and eukaryotic cells.
• Describe the structure of cell membranes and the movement of molecules across a membrane.
• Identify the substrates, products, and important chemical pathways in metabolism.
• Identify the principles of inheritance and solve classical genetic problems.
• Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.
• Describe the unity and diversity of life and the evidence for evolution through natural selection

Course Outline:
Objectives, which are determined by the district curriculum committee, are measurable or observable and will be evaluated. Different modes of instruction will be utilized for presentation and evaluation. Lecture topics will include characteristics of life, homeostasis, scientific process, biological chemistry, cells, plasma membranes, osmosis, metabolism, enzymes, cellular respiration, photosynthesis, mitosis, meiosis, genetics, DNA, replication, transcription, and translation. Class objectives will be identified at the beginning of each class session and posted on eCampus. The course calendar at the end of the syllabus shows the topics for each class and test deadlines

Evaluation Procedures:
LECTURE EXAMS: 50% of the total grade. (5) and Final
• Lecture exams will be administered on-line and must be taken by the deadline posted in the course calendar. The final exam will also be administered on-line.
• Students are required to take the final exam. If you do not take the final exam, you will receive a 0.
  o The lowest test grade for the semester will be dropped. This includes the final exam
• In the event of a missed exam, the instructor must be notified within 24 hours of the scheduled exam and documentation will be required for the absence. Late work if accepted 20-30% penalty

LABORATORY: 30% of the total grade
QUIZZES: 10% of total grade
DISCUSSION BOARDS: 10% of total grade

You will not be eligible for bonuses on tests or curves if you are late to class, late turning in assignments, missing assignments, do not participate, not prepared or have too many absences.

GRADING SCALE:

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<tr>
<th>FOR EACH EXAM:</th>
<th>FOR FINAL GRADE:</th>
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<tbody>
<tr>
<td>A = 90 - 100</td>
<td>A = 89.5 - 100</td>
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<tr>
<td>B = 80 - 89</td>
<td>B = 79.5 - 89.4</td>
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<td>C = 70 - 79</td>
<td>C = 69.5 - 79.4</td>
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<td>D = 60 - 69</td>
<td>D = 60 - 69.4</td>
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<td>F ≤ 59</td>
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Instructor Attendance Policy:
• Students are expected to attend all classes and on time. Students have the responsibility to attend class and to consult with the instructor when an absence occurs. If for some reason you must leave class early, you should inform the instructor prior to the start of class of your reason for leaving early. **On-time attendance is vital to your success in this course. Plan to arrive early.** On-time attendance is taken at the beginning of class. **A deduction may occur for lack of participation if unexcused tardy or absence.**
Students must begin attendance in all classes of enrollment. No exceptions. Financial Aid will not be granted to students who have been certified as not attending, by the certification date. For this lecture course, your physical participation in class, on or before the certification date will allow you to receive credit for FA purposes. For certification dates, check with the division or FAO for further information. Students, who are not certified as beginning class, are responsible for any payments due as a result of non-certification, to include the dropping of courses.

**Student Expectations:**
- Students will develop personal responsibility in the areas of on-time attendance, completing all assignments on time, studying 12-15 hours per week outside of class, and bringing the textbook to class.
- Students will develop personal responsibility in the areas of proper care for scientific equipment, proper care and respect for biological specimens, safety in the laboratory, proper storage of laboratory equipment, and cleanliness of laboratory stations.
- Students must write their name, course and section and instructor name on all assignments
- No headphones in class. Please turn your cell to vibrate and step outside if you must text. No texting in class.

**Late Work Policy:**
- Students must contact the instructor if they will miss class, lab, or the due date for an assignment within 24 hours.
- Documentation of an excused absence is required. Arrangements must be made with the instructor to make-up a lab, exam, or assignment.
- Work is due at the beginning of class on the due date.
- Twenty points may be deducted per day for an assignment that is late if accepted. In class work that has a late start due to tardiness will have a minimum of 10 points or more deducted if accepted.

**Makeup Exam Policy:**
- Students must contact the instructor if they will miss an exam within 24 hours of the due date.
- Documentation of an excused absence is required.
- Arrangements must be made with the instructor to make-up an exam.

**LABORATORY EXPECTATIONS:**
**ATTENDANCE IS MANDATORY** and each exercise will require laboratory participation. Attendance will be taken at the beginning of each class period.
- Students are required to print a copy of the lab for each day from eCampus prior to class. The labs are formatted for the Arial font. If you do not have access to a computer and printer, you can print the pages for a small fee in the campus computer labs, W139 (W141 and W142).
- Instructions are given at the beginning of each lab and WILL NOT be repeated. Students who miss instruction will not be allowed to participate in lab.
- Labs for each lab practical must be kept in a lab notebook and brought to each lab session.
- Nitrile Gloves and chemical splash goggles are required when working with chemicals. Purchase them before class! NO GLOVES, NO GOGGLES, NO LAB!
- Hazardous Materials are used in the laboratory areas. Material Safety Data Sheets (MSDS), required by OSHA, are available for all students to observe upon request.
- Cell Phones are not permitted to ring in the lab. No texting in class or lab—please step out into hall
- Students who bring computers to class are not permitted to check email or the Internet.
- Eating, Drinking, Gum Chewing, and/or Applying Cosmetic are NOT ALLOWED in the laboratory at any time. Do not bring any beverage containers or water bottles into the lab.

**eCampus:**
- Students are encouraged to use the resources available on eCampus regularly.
- Go to the website: http://ecampus.dcccd.edu. Your login is an “e” and your seven-digit student identification number (example: e7654321). If you have never used eCampus before, your password is the same as your user name until you change it under personal information.

**eConnect:** Your final grade will be posted to eConnect and the course will be made unavailable.

Instructor reserves the right to change course calendar and syllabus if needed.
Withdraw date: May 3, 2019
Students often drop courses when help is available that would enable them to continue. I hope you will discuss your plans with your instructor if you feel the need to withdraw.

Academic Dishonesty:
Students caught plagiarizing an assignment will receive a “0” on the test or assignment and will be subject to an “F” in the course and possible expulsion from the college. Any testing or exam requires no phone or notes may be used in Testing Center, Classroom or Lab Practical and may result in a “0” on the assignment and possible “F” and or expulsion.

Mountain View College Institutional Policies: