Southeastern Louisiana University
Dual Enrollment Program--Biology

The Southeastern Dual Enrollment Biology courses provide high school students the opportunity to take college biology courses at their high schools and receive credit on their high school and Southeastern transcripts. Southeastern is offering a progressive pair of courses in Biology during the 2018-2019 academic year. Either course can be facilitated in a year-long format or in a semester-longer-long format.

**GBIO 151: General Biology I.** Credit 3 hours. Prerequisites: Math ACT ≥ 19; English ACT ≥ 18. Principles of biology from the cellular level including biochemistry, cell biology, metabolism, photosynthesis, molecular biology, and genetics.

**GBIO 153: General Biology II.** Credit 3 hours. Prerequisite: Completion of GBIO 151 with a “C” or better. A systematic study of the structure, function, evolution, ecology and relationships of organisms including viruses, bacteria, protists, fungi, plants, and animals.

### 2018 Summer Workshops:

<table>
<thead>
<tr>
<th>Session Title</th>
<th>Dates</th>
<th>Audience</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Facilitator / General BIOLOGY I (GBIO 151)</td>
<td>July 9-10, 2018 9:30-3:00</td>
<td>Mandatory for all new Dual Enrollment Biology facilitators</td>
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<tr>
<td>New Facilitator / General BIOLOGY II (GBIO 153)</td>
<td>July 11, 2018 9:30-3:00</td>
<td>Mandatory for all new Dual Enrollment Biology facilitators</td>
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<tr>
<td>½ Day Workshop</td>
<td>July 16, 2018 9:00-noon</td>
<td>Mandatory for all Dual Enrollment Biology facilitators</td>
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**Note:**
Once a facilitator has completed the workshop for a particular course, he or she does not have to repeat that workshop in subsequent summers. The only mandatory workshop for a returning facilitator, who does not wish to facilitate a new course, is a ½ day workshop in July. This ½ day workshop must be repeated each summer.

Southeastern’s Dual Enrollment Program webpage: [http://www.southeastern.edu/future_students/dual_enrollment/](http://www.southeastern.edu/future_students/dual_enrollment/)
GBIO 151-General Biology I
Southeastern Louisiana University Dual Enrollment 2018-2019 Academic Year
2018--2019

Instructor of Record: Rosemary Becker
Email: rosemary.becker@southeastern.edu
Phone: 985-549-5296

Course materials: http://moodlede.southeastern.edu

Prerequisite: Must be eligible to enroll in ENGL 101 and MATH 161 (see additional information above).

GBIO 151 is a hybrid course with all content delivered online through MoodleDE OR face-to-face by Southeastern faculty. The Southeastern instructor of record will develop course content and provide powerpoint notes, ungraded instructional assignments, ungraded quizzes that are similar to exams, and exam study guides to help prepare students to complete the graded assignments and the exams which are also provided by the Southeastern instructor of record. The high school teachers will act as a facilitator and assist with student registration and enrollment, proctor exams as necessary, and through supplemental instruction, serve as a daily learning resource for students as they assimilate course content. The students' final course grades are assigned by the instructor of record.

MindTap (which is accessed through Moodle DE) is the companion site to our textbook

The Southeastern Instructor of Record will provide detailed instructor notes, PowerPoints, worksheets and outlines that act as study guides, and additional optional activities to the course facilitator through a facilitator only MoodleDE site. The Southeastern Instructor of Record will provide outlines and worksheets that act as study guides through MoodleDE. Through MindTap facilitators and students will have access to assignments and chapter checkouts, which count toward the course grade, as well as additional study material and practice activities.

Student Learning Outcomes: After the completion of this course, students will be able to:

- Demonstrate an understanding of elements, atoms, chemical bonds, and molecules important to life;
- Identify structures and functions of prokaryotic and eukaryotic cells;
- Describe the make-up of the cell membrane and how various molecules may cross it;
- Demonstrate an understanding of the flow of energy and electrons in two major metabolic pathways: cellular respiration and photosynthesis;
- Describe the cell cycle and compare mitosis and meiosis;
- Relate meiosis and sexual reproduction to genes, chromosomes, inheritance, and human genetics;
- Demonstrate an understanding of DNA structure and its replication;
- Demonstrate an understanding of transcription, translation, and the regulation of gene expression;
- Describe and apply various DNA technologies.

Exams: There will be five 100-point exams including a final exam. Only the four highest exam grades will be used to calculate your final grade. The first four exams will cover material from the each unit of the course. The final exam is comprehensive and will cover the entire course. Exams will be administered via MoodleDE and grades will be posted on MoodleDE. There will be 400 total points from exams.

Assignments: Assignments worth up to 15 points will be given at the instructor of record’s discretion. Assignments are designed to test your understanding of material that has been presented. Assignments are available in MindTap via MoodleDE. There are approximately 120 points in Assignments.

Chapter Checkouts: There is a Chapter Checkout for every chapter. You are required to complete these by the date of the respective exam. No late checkouts will be accepted. Chapter Checkouts are available in MindTap via MoodleDE. There are approximately 85 points of Chapter Checkouts.

Grade scale: [90-100% = A] [80-89% = B] [70-79% = C] [60-69% = D] [< 60% = F]
Grades will be posted on MoodleDE at the completion of the unit. The Instructor of record will report final grades in LeoNet.

Make-ups: There will be no individual make-up exams given to students without a valid excuse. Students that possess a valid medical excuse or school excuse may be allowed to take a make-up exam (alternative assessment
methods maybe used at my discretion). **Make-ups will only be allowed within 1 week of the excused absence.** There will be no make-ups for in class work and no extensions for outside class assignments without valid excuses or prior consent of the instructor. (You get to drop your lowest exam).

**Academic Dishonesty:** Schools agree that the first incident of academic dishonesty in any course by any student in any manner will result in a grade of 0 on the assessment in question. The second incident will result in the student's failing the Southeastern portion of the course. Southeastern’s Academic Dishonesty Policy:

Students are expected to maintain the highest standards of academic integrity. Behavior that violates these standards is not acceptable. Examples are the use of unauthorized material, communication with fellow students during an examination, attempting to benefit from the work of another student and similar behavior that defeats the intent of an examination or other class work. Cheating on examinations, plagiarism, improper acknowledgement of sources in essays, and the use of a single essay or paper in more than one course without permission are considered very serious offenses and shall be grounds for disciplinary action as outlined in the current General Catalogue of Southeastern Louisiana University

http://www.southeastern.edu/resources/policies/policy_detail/acad_integrity.html

**Attendance:** Students should refer to the University policy on attendance as stated in the current SLU catalogue. Attendance will be taken at the beginning of each class. If you cannot attend lectures regularly, you should consider dropping the class. **It is your responsibility to complete and file drop forms with your high school course coordinator if you wish to withdraw from the class.** The last day to withdraw from the class for Fall semester classes is Friday, November 2nd, 2018 and for Year-long and Spring semester classes is March 29th, 2019.

**Grade Appeals:** Should a student have a concern about a final grade posted for a dual enrollment course, the Grade Appeals policy should be followed below. Please note that a student has 30 days to make a written appeal to the Southeastern Instructor of Record:

After a final course grade is recorded in the Records and Registration Office, a change of grade must be approved in sequence by the instructor of record, the instructor's department head, and the academic dean of the College of Science and Technology. In the event of a contested final course grade, a student's written appeal of the grade must be submitted to the instructor within **thirty (30)** calendar days of final grades for the term being due. The grade appeal should also be submitted to Dr. Jeffrey Temple, Assistant Vice President for Academic Programs. For more information about grade appeals, see

http://www.southeastern.edu/resources/policies/policy_detail/instruction_practices.html

**Material to be covered on exams given through MoodleDE:**

**Exam I Material:**
- Chapter 1: Introduction to Biological Concepts and Research
- Chapter 2: Life, Chemistry, and Water
- Chapter 3: Biological Molecules: The Carbon Compounds of Life
- Chapter 4: Cells

**Exam II Material:**
- Chapter 5: Membranes and Transport
- Chapter 6: Energy, Enzymes, and Biological Reactions
- Chapter 7: Cellular Respiration: Harvesting Chemical Energy
- Chapter 8: Photosynthesis

**Exam III Material:**
- Chapter 10: Cell Division and Mitosis
- Chapter 11: Meiosis: The Cellular Basis of Sexual Reproduction
- Chapter 12: Mendel, Genes, and Inheritance
- Chapter 13: Genes, Chromosomes, and Human Genetics

**Exam IV Material:**
- Chapter 14: DNA Structure and Replication
- Chapter 15: From DNA to Protein
- Chapter 16: Regulation of Gene Expression
- Chapter 18: DNA Technologies: Making and Using Genetically Altered Organisms, and Other Applications
- Chapter 19: Genomes and Proteomes

**Final Exam Material:**
- Chapters 1-8; 10-16, 18-19.
Important dates for the semester:
http://www.southeastern.edu/future_students/dual_enrollment/calendar/index.html

<table>
<thead>
<tr>
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GBIO 153-General Biology II
Southeastern Louisiana University Dual Enrollment 2018-2019 Academic Year
2018--2019

Instructor of Record: Rosemary Becker
Email: rosemary.becker@southeastern.edu
Phone: 985-549-5296

Course materials: http://moodlede.southeastern.edu

Prerequisite: Completion of GBIO 151 with a "C" or better.

GBIO 153 is a hybrid course with all content delivered online through MoodleDE OR face-to-face by Southeastern faculty. The Southeastern instructor of record will develop course content and provide powerpoint notes, ungraded instructional assignments, ungraded quizzes that are similar to exams, and exam study guides to help prepare students to complete the graded assignments and the exams which are also provided by the Southeastern instructor of record. The high school teachers will act as a facilitator and assist with student registration and enrollment, proctor exams as necessary, and through supplemental instruction, serve as a daily learning resource for students as they assimilate course content. The students' final course grades are assigned by the instructor of record.

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Student Learning Outcomes: After the completion of this course, students will be able to:
- Demonstrate an understanding of microevolution, macroevolution, and speciation;
- Explain evolutionary relationships shown on a phylogenetic tree;
- Demonstrate and understanding of molecules and conditions necessary for the origin of cells/life;
- Demonstrate and understanding of major evolutionary events in the origin of life;
- Describe structures and characteristics used to classify and define major taxa including: viruses, bacteria, archaean, protists, plants, fungi, and animals;
- Demonstrate and understanding of the biodiversity crisis and practical strategies for conservation;
- Study in detail one major animal organ system and present findings to peers.

Exams: There will be four 100-point exams. Exams will be administered via MoodleDE and grades will be posted in MoodleDE. There will be 400 total points from exams.

Assignments: Assignments worth up to 15 points will be given at the instructor of record's discretion. Assignments are designed to test your understanding of material that has been presented. Assignments are available in MindTap via MoodleDE. There are approximately 120 points in Assignments.

Chapter Checkouts: There is a Chapter Checkout for every chapter. You are required to complete these by the date of the respective exam. No late checkouts will be accepted. Chapter Checkouts are available in MindTap via MoodleDE. There are approximately 85 points of Chapter Checkouts.

Project: You will complete a project for an "Animal Structure and Function" chapter that includes a chapter summary and oral presentation of one core concept. This will be worth 50 points.

Grade scale: [90-100% = A] [80-89% = B] [70-79% = C] [60-69% = D] [< 60% = F]
Grades will be posted on MoodleDE at the completion of the unit. The Instructor of record will report final grades in LeoNet.

Make-ups: There will be no individual make-up exams given to students without a valid excuse. Students that possess a valid medical excuse or school excuse may be allowed to take a make-up exam (alternative assessment methods maybe used at my discretion). Make-ups will only be allowed within 1 week of the excused absence. There
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**Material to be covered on exams given through MoodleDE:**

**Exam I Material:**
Chapter 20: Development of Evolutionary Thinking
Chapter 21: Microevolution: Genetic Changes within Populations
Chapter 22: Speciation
Chapter 23: Paleobiology and Macroevolution
Chapter 24: Systematics and Phylogenetics: Revealing the Tree of Life

**Exam II Material:**
Chapter 25: The Origin of Life
Chapter 17: Bacterial and Viral Genetics
Chapter 26: Prokaryotes: Bacteria and Archaea
Chapter 27: Protists

**Exam III Material:**
Chapter 28: Seedless Plants
Chapter 29: Seed Plants
Chapter 33: The Plant Body
Chapter 30: Fungi

**Exam IV Material:**
Chapter 31: Animal Phylogeny, Acoelomates, and Protostomes
Chapter 32: Deuterostomes: Vertebrates and Their Closest Relatives
Chapter 55: Biodiversity and Conservation Biology

**Animal Structure and Function Project**
Chapter Outlines and Presentations: Chapters 38-50
Important dates for the semester:
http://www.southeastern.edu/future_students/dual_enrollment/calendar/index.html

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