HONORS BIOLOGY COURSE SYLLABUS
LAMBERT HIGH SCHOOL
2020 – 2021

Course Instructors

Name	Room	Email	Phone Extension	Office Hours
Lee Fisher	1302	lfisher@forsyth.k12.ga.us	678-965-5050, ext. 411302	By appointment
Randy Grimes	2211	f18843@forsyth.k12.ga.us	678-965-5050, ext. 412211	By appointment
Juliana Helm	2302	f39339@forsyth.k12.ga.us	678-965-5050, ext. 412302	By appointment
Craig Scutt	1311	f39273@forsyth.k12.ga.us	678-965-5050, Ext. 411311	By appointment

Course Description: Students will investigate biological systems at the molecular, cellular and macrobiological level following the GEORGIA SCIENCE STANDARDS. Hands-on laboratory exercises will be provided to assist students in their understanding of biological themes incorporating cellular biology, genetics, biotechnology, evolution, and ecology. Projects can be required with different units of instruction along with homework assignments. The state mandated Georgia Milestones End of Course Assessment is required and counts 20% of the student's overall course grade.

Teacher Expectations for Students:
Daily Calendar – Posted in Its Learning which will tell you the plan for each day during the unit. (Note: this is subject to change; changes will be announced in class)
Notes -- Posted in Its Learning so you can print them and fill in as we go.
Labs/Lab Reports – You can expect to do labs or simulations in most units.
Quizzes – Are designed to give you an opportunity to see how well you know the material.
Homework – Is not given for the sake of work. If a homework assignment is given, do it! It will help you understand the material more deeply and positively impact your formative and summative grade.
Bell Work – Daily practice to make you more successful.
Help Sessions – Review sessions will also be scheduled virtually as offered per teacher.
Tests – Generally composed of 3 parts: multiple choice, application, and free response. Study tips will be provided before the test.
Remediation – You will be given the opportunity to replace your lowest test with the corresponding portion of the midterm/final, should the midterm/final be higher. There will be a formative replacement opportunity to replace low quiz grades with a higher summative grade if it applies to that unit.
Projects: Projects each semester may be assigned.

What we expect from you …

#1- Review your notes **every night**. Waiting until the night before will not help you in this course and you will very quickly feel overwhelmed and behind.
#2 – Turn work in **on time**.
#3 – Attend help sessions as needed and never hesitate to ask when you need help. The day before the test is too late to truly get the help you need (see point #1).
#4 – Always follow the safety rules and specific guidelines for each lab.
#5 – Come to class **each day** ready to go. We will always have something to do or cover every day.

Makeup Work: : All missed work and assessments are the responsibility of the student when they are absent from school. A student who is absent on the class day before a regularly scheduled assessment will be responsible for completing the assignment on the regularly scheduled day and time. Students who have been absent more than two consecutive days (including the assessment day) will be given five (5) school days to make up the assessment and/or other assignments. **This does not include major projects, research papers, etc., where the deadline has been posted in advance.** It is at the teacher's discretion whether to grant a longer period to make up work if there are extenuating circumstances. Long-term projects must be turned in on the previously scheduled date. If a student is absent on that day, he/she must turn in the project the day of return. A daily synopsis of class and any handouts given out in class will be posted on Its Learning.

Late assignments

As your teacher, I will hold you responsible for late work and missing assignments by labeling them as MISSING in Student Portal. In an effort to create opportunities for all students to turn in late or missing assignments, LASSO will be available on Saturdays throughout each semester.

Work for first semester will not be accepted during second semester.

Grading Calculations – EOC*, Yearlong Course

Course Average

40% (1st semester) + 40% (2nd semester) + EOC 20%*

If the EOC is waived, then the scale will be 50% 1st semester + 50% 2nd semester

1st and 2nd semester Course work

Summative (75%)

Formative (25%)

Midterm/Final – Each will count as a summative grade with a weight of 1.0 if there is an EOC. If the EOC is waived, then each of these will count with a weight of 2.0.

-Summative evaluations will not be given until ALL formative feedback has been returned.

A test will be given after the completion of each unit. Test dates will be announced and posted at least one week in advance on Its Learning and on the board. Laboratory reports, homework, and quizzes are formative grades. Projects may also be assigned. Depending on the nature of the project, it may be a formative or summative grade.

Grading Policy:

A = 90 – 100 B = 80 – 89 C = 70 – 79 Failing = Below 70

Formative Assessments include, but are not limited to homework, class work, practice tests, rough drafts, and sections of projects/ research papers/presentations.

Summative Assessments include, but are not limited to unit tests, final projects, final essays, final research papers, and final presentations.

Required Assignments: There will be at least 1 summative assessment per unit as well as various performance based assessments that may require writing, research and creativity. The dates for summative assessments will be posted on ItsLearning at least one week prior to assessment. The number of formative grades (such as quizzes, homework, etc.) will be determined along the course of the school year. It will be at least 2 formative grades per unit. Labs are an integral part of any biology classroom. In order to participate in lab, you must return a safety contract signed by you and your parent view a departmentally required safety video, score a 100 on a safety quiz, and follow all safety rules in class.

Course Topics and Schedule

First Semester

Unit One – Methodology
Unit Two – Biochemistry
Unit Three – Cellular Processes
Unit Four – Energetics
Unit Five – Mitosis, Binary Fission, Meiosis
Unit Six – DNA processing
Review –
Midterm

Second Semester

Unit Seven – Biotechnology
Unit Eight – Meiosis and Genetics
Unit Nine – Evolution
Unit Ten – Ecology
Unit Eleven – Human Impact
Final Review --
Final Exam

Minimal Items needed for class:
-3 Ring Binder (2.0 in.)
-Tab dividers (optional) for organization
-Paper
-Pen/Pencil
-Calculator
-Graph Paper
-Glue Stick
-Markers or colored pencils
-Scissors
-Dry Erase Marker
-Ruler
-Masks are highly recommended but are not mandatory
*Please provide one or more of the following if you are able to: Clorox wipes, tissues, paper towels, or disposable gloves (M or L).

Learning Resources/Textbook(s): All learning resources, both print and digital, are meant to support and enhance the student learning experience of this class. Below are the names of the textbooks and websites that will be used in this course. Some of the web-based resources require parent permission per federal regulations. Federal laws that guide parent permission requirements are as follows:

- Children's Internet Protection Act (CIPA): The school is required by CIPA to have technology measures and policies in place that protect students from harmful materials including those that are obscene and pornographic. Any harmful content contained within inappropriate sites will be blocked. http://fcc.gov/cgb/consumerfacts/cipa.html
- Children's Online Privacy Protection Act (COPPA): COPPA applies to commercial companies and limits their ability to collect personal information from children under 13years of age. No personal student information is collected for commercial purposes. https://www.ftc.gov/tips-advice/business-center/guidance/complying-coppa-frequently-asked-questions-0
- Family Educational Rights and Privacy Act (FERPA): FERPA protects the privacy of student education records and gives parents the right to review records. Under FERPA, schools may disclose directory information in certain circumstances. http://www2.ed.gov/policy/gen/guid/fpco/ferpa

Please review the resource list. Each website related to the curriculum resources is provided along with their privacy policies. Should you have any questions regarding these resources immediately contact the course teacher via email or phone.

Name of Resource*	Digital	Privacy Policy
Biology - McDougal Littell (2008)	http://www.classzone.com/cz/books/bio_07/book_home.htm?state=GA	ClassZone
Campbell Biology 12th Edition	AP Biology Pearson Mastering Biology etext	SAAVAS
OpenStax	Concepts of Biology (Honors) AP Biology	Terms of Service
Georgia Virtual School	Biology AP Biology	http://www.gavirtuallearning.org/terms.aspx
Discovery Education	Classlink Access	Discovery Media Terms of Use
NewsELA Biology	Classlink Access CLEVER	NewsELA Privacy Policy
CK – 12 FlexBook: Biology	Classlink Access CLEVER AP Biology	CK – 12 Terms of Use

**** The following resources are county approved. These resources may vary by school due to sequencing, pacing, curriculum design, and/or individual needs of students.***

Parent Initial for Approval **	Name of Resource	Website	Privacy Policy
	The Immortal Life of Henrietta Lacks PG-13	Common Sense Media Parent Review	NA
	Outbreak Rated R	Common Sense Media Parent Review	
	GATTACA	Common Sense Media Parent Review	
	Lactose Intolerance Around the World	NLMNIHDHHSUSA.gov National Center for	Policy
		Biotechnology Information, U.S. National Library of Medicine	
	NSTA Podcast for the Classroom	Blick on Flicks	Policy
	M.I.T. OpenCourseware	M.I.T. Science, Technology & Society	Privacy Policy
	HHMI Biointeractive	Classroom Resources	Ed Framework In Progress
	How to fight desertification and reverse climate change	TEDTalks video highlights global human impact resulting in desertification	https://www.ted.com/about/our-organization/our-policies-terms/privacy-policy
	Gene Editing	Paired Texts & Argumentative Performance Task	NewsELA Privacy Policy
	Human Population Time Lapse to 2050	American Museum of Natural History download	
	CRISPR Explained	Mayo Clinic clip	
	Testing Gene Editing for Sickle Cell Disease	Stanford Children's Health I Lucile Packard Children's Hospital Stanford	

***** The following resources are web-based resources that require parent permission. By signing the syllabus, the parent is approving these resources. Should you have any questions regarding any of these classroom resources, please contact your student's teacher via email.***

Safety Goggles

To reduce the possible spread COVID-19 by lab safety goggles, every lab will be equipped with a spray bottle of 70% isopropyl alcohol solution to sterilize goggles between each use. Students are welcome to bring their own goggles provided the goggles meet safety standards. They must be splash proof and have a Z87+ impact rating. The linked goggles should meet the safety guidelines required at most colleges as well. Safety glasses are not acceptable protection. Suitable goggles are linked below. An electronic copy of the syllabus can be accessed on Itslearning so that you can follow the links.

Flinnsci.com AP3306 or AP3309 for Fog Free.

Amazon.com - Green Safety Goggles

Labster

To support student learning, your instructor would like to use Labster.com to provide a safe laboratory experience. Labster.com will provide an online platform for students to simulate a laboratory experience. This is a requested lab fee of $8 to cover the fee for registration with the website. Please speak to your individual instructor if you have questions or concerns. If writing a check, checks should be made out to Lambert High School.