

COURSE TITLE: **IB Biology**

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Forsyth County Schools Course Syllabus 2020/2021

Course Description: IB Biology HL Year One (11th grade) (Science)

Major topics for the first year of this course include cells, the chemistry of life, nucleic acids and proteins, cellular respiration, photosynthesis, plant biology, the internal assessment, genetics and biotechnology. Students will construct, analyze, and evaluate hypotheses (including research questions and predictions), scientific methods (including techniques and procedures), and scientific explanations of the biological world.

IB Biology HL Year Two (12th grade) (Science)

Major topics for year two include ecology (including the option and accompanying objectives) evolution, classification and human health and physiology. Students will continue to construct, analyze, and evaluate hypotheses (including research questions and predictions), scientific methods (including techniques and procedures), and scientific explanations of the biological world.

Standards: *Course Objectives can be found at www.ibo.org. They are also listed in the beginning of each topic in the book provided to you.*

Required Assignments: *Internal assessments will be performed during both Junior and Senior year. There are 7 required labs that will be completed over the course of two years. All students are required to complete the Group 4 project as prescribed by the IB.*

Availability for Extra Help: *Extra Help will be offered by appointment only, in the morning and most likely will be virtual.*

Makeup Work: *Make up work is defined as work assigned during a student's absence, not work assigned prior to an absence. The student has five (5) school days upon returning to school to complete make-up work. The teacher has the discretion to grant a longer period to make up work, if there are extenuating circumstances. All make up work can be found on itslearning.*

Late Work: A 10 point per day penalty will accrue for all late work.

Grading Calculations:

Non-EOC Course Average = 50% (1st Sem. Course Work) + 50% (2nd Sem. Course Work)

1st and 2nd Semester Course Work = 75% Summative + 25% Formative

IB Biology HL is a two-year course and students will be expected to sit for several cumulative exams for all material covered in their studies up to the time when each assessment is administered. These examinations usually are administered at the end or beginning of each semester. The final exam at the end of year 1 is not eligible for exemption.

This is a two-year cumulative course that builds on previous content, therefore all students must take the final at the end of year 1.

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.

Initials _____ (every page initialed by parent)

Updated June 2020 dp

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.gavirtualearning.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	
	Lactose Intolerance Around the World	NLMNIHDHHSUSA.gov National Center for Biotechnology	Policy

		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 Lucile Packard Children's Hospital Stanford	
	Avatar PG-13	Common Sense Media Parent Review	
	You Tube: Crash course, Stephanie Castle	https://www.youtube.com/	
	Bio Ninja	https://ib.bioninja.com.au/	

**** 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.**

I, _____, have read this course syllabus and approve of its contents. I agree to allow my student to use each of the classroom resources listed in the learning resource section. I will support my student following the classroom expectations outlined in this course syllabus. I agree that I am the person who is legally allowed to consent for my student whose name is listed below.

Student's Name (Print)

Parent's Name (Print)

Initials _____ (every page initialed by parent)

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Parent Signature

Date

Initials _____ (every page initialed by parent)

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