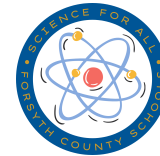# Forsyth County Schools
IB Biology Syllabus 2023/2024

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Course Description (GaDOE): (IBO): This course is offered at two levels, the higher level (HL) and the standard level (SL). At the HL level the course is taken over two years. Students taking the course at the SL level must take it for one year. Students at both levels study the following five core topics; cells, the chemistry of life, genetics, ecology and evolution, and human health and physiology. Optional course topics for students at both HL and SL are evolution, neurobiology and behavior, applied plant and animal science, and ecology and conservation. Students at SL also have the option of diet and human nutrition, physiology of exercise and cells and energy. Students at SL are required to study any two options with a duration each of 15 hours. Students at HL are required to study any two options with duration each of 22.5 hours. (IBO: A Guide to the IB Diploma Programme for Universities & Colleges).

Standards: *Course Standards can be found at*   https://www.ibo.org/programmes/diploma-programme/curriculum/sciences/biology/

Required Assignments: *IB Biology 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 (12 th 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.

Required Materials: *A binder, composition notebook, dividers, colored pencils or pens, a scientific calculator and highlighters.*

Availability for Extra Help: *Extra help is available during instructional focus or Tuesday and Thursday morning from 8-8:20.*

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.*

Grading Calculations:
<u>Course Average</u> = 40% (1st Sem. Course Work) + 40% (2nd Sem. Course Work) + 20% EOC)
1st and 2nd Semester Course Work = 75% Summative + 25% Formative

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, labs, investigations, 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, formal lab reports, final research papers, and final presentations.

Due to a state policy change, the EOC will count between 10-20% of the final course grade and will be determined by the BOE no later than November 2023. The exact percentage weight will be communicated at that time. If you have not taken the EOC, I need to know immediately.

Updated May 2023 BDC

Learning Resources/Textbook(s): All learning resources, both print and digital, are meant to support and enhance the student learning experience in 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 13 years 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 its privacy policies. Should you have any questions regarding these resources, immediately contact the course teacher via email or phone.

Name of Resource*	Hard copy/Website	Privacy Policy
McDougal Littell *Biology*	Class set of textbooks	Not applicable
Explore Learning	Digital supplemental material (accessed via ClassLink)	https://www.explorelearning.com/index.cfm?method=Controller.dspPrivacy
Newsela	Digital supplemental material (accessed via ClassLink)	https://newsela.com/about/privacy-policy/
USA Testprep	Digital supplemental material (accessed via ClassLink)	https://www.usatestprep.com/privacy-policy/#:~:text=In%20accordance%20with%20the%20Family,by%20USATestprep%20beyond%20the%20time
Pivot Interactives	Digital supplemental material (accessed via ClassLink)	https://www.pivotinteractives.com/privacy-policy
Discovery Education	Digital supplemental material (accessed via ClassLink)	https://www.discoveryeducation.com/privacy-policy/

*** 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
	Kognity	https://app.kognity.com	https://app.kognity.com/terms
	You tube for educational videos and clips: Crash course, Bozeman Science, TED ED	https://www.youtube.com	https://www.youtube.com/static?template=terms

	HHMI biointeractives	https://www.biointeractive.org/professional-learning/educator-voices/effective-components-online-teaching	https://www.hhmi.org/privacy-policy

	Discovery Education	https://www.discoveryeducation.com/programs/science/	https://www.discoveryeducation.com/privacy-policy/
	Bioknowledgy	https://www.bioknowledgy.info/	https://creativecommons.org/licenses/by-nc-sa/4.0/deed.en_US
	Gimkit	Accessed through classlink	https://nearpod.zendesk.com/hc/en-us/articles/360049188592
	Nearpod	Accessed through classlink	https://nearpod.zendesk.com/hc/en-us/articles/360049188592
	Edpuzzle	https://edpuzzle.com/	https://edpuzzle.com/privacycenter
	PhET	https://phet.colorado.edu/	https://phet.colorado.edu/about/software-agreement_v7.htm

** 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 in 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)

_____   _____
Parent Signature   Date