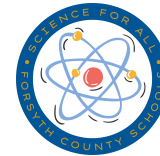


# Forsyth County Schools

## IB Biology Syllabus 2024/2025



**Teacher Name: Angela Piszczek**

**Email: [apiszczek@forsyth.k12.ga.us](mailto:apiszczek@forsyth.k12.ga.us)**

**Room Number: 441**

**Phone: 770-781-2264**

**Ext: 100441**

**Course Description (IBO):** DP biology enables students to constructively engage with topical scientific issues. Students examine scientific knowledge claims in a real-world context, fostering interest and curiosity. By exploring the subject, they develop understandings, skills and techniques which can be applied across their studies and beyond. International Baccalaureate Diploma Programme Subject Brief Sciences: Biology First assessment 2025. Through the overarching theme of the nature of science, the course aims to enable students to: 1. develop conceptual understanding that allows connections to be made between different areas of the subject, and to other DP sciences subjects 2. acquire and apply a body of knowledge, methods, tools and techniques that characterize science 3. develop the ability to analyse, evaluate and synthesize scientific information and claims 4. develop the ability to approach unfamiliar situations with creativity and resilience 5. design and model solutions to local and global problems in a scientific context 6. develop an appreciation of the possibilities and limitations of science 7. develop technology skills in a scientific context 8. develop the ability to communicate and collaborate effectively 9. develop awareness of the ethical, environmental, economic, cultural and social impact of science.

**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)

Major topics for the first year of this course include cells, the chemistry of life, nucleic acids and proteins, cellular respiration, photosynthesis, and plant biology. 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)

Major topics for year two include the internal assessment, genetics, ecology, 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 flex, Wednesday afternoon from 3:45-4:00, and Thursday morning from 8:00-8:15.

**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:

Course Average = 50% (1<sup>st</sup> Sem. Course Work) + 50% (2<sup>nd</sup> Sem. Course Work)

1<sup>st</sup> and 2<sup>nd</sup> 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.*

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

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

	HHMI biointeractives	<a href="https://www.biointeractive.org/professional-learning/educator-voices/effective-components-online-teaching">https://www.biointeractive.org/professional-learning/educator-voices/effective-components-online-teaching</a>	<a href="https://www.hhmi.org/privacy-policy">https://www.hhmi.org/privacy-policy</a>
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	Discovery Education	<a href="https://www.discoveryeducation.com/programs/science/">https://www.discoveryeducation.com/programs/science/</a>	<a href="https://www.discoveryeducation.com/privacy-policy/">https://www.discoveryeducation.com/privacy-policy/</a>
	Bioknowledgy	<a href="https://www.bioknowledgy.info/">https://www.bioknowledgy.info/</a>	<a href="https://creativecommons.org/licenses/by-nc-sa/4.0/deed.en_US">https://creativecommons.org/licenses/by-nc-sa/4.0/deed.en_US</a>
	Nearpod	Accessed through classlink	<a href="https://nearpod.zendesk.com/hc/en-us/articles/360049188592">https://nearpod.zendesk.com/hc/en-us/articles/360049188592</a>
	PhET	Accessed through classlink	<a href="https://phet.colorado.edu/about/software-agreement_v7.htm">https://phet.colorado.edu/about/software-agreement_v7.htm</a>

**\*\* 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.**

As a part of their participation in PSAT and/or SAT testing, students may be expected to utilize accounts created with the College Board via their official website. These accounts provide students with the ability to register for the PSAT and SAT assessments, as well as other program resources as offered by the College Board. Parents and students should review the College Board privacy policies and collaboratively create and manage this account. For additional information, please contact the PSAT/SAT Coordinator at your student's school, and visit <https://privacy.collegeboard.org/privacy-center/>.

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.

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Student's Name (Print)

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Parent's Name (Print)

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Parent Signature

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Date