

IB Biology HL

Course Syllabus

Course Description:

This is a two-year course that will provide an in-depth view of the biological world. After completing this course, students will more clearly understand the complexity of life on earth. Students will also be able to take the Higher Level I.B. exam in Biology after the second year. Various methods of disseminating the information will be utilized. Laboratories, lecture/discussions, and cooperative learning strategies will all be utilized to allow you to fully comprehend the information.

Contact:

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Materials:

- Highlighter
- Pens (Black Only for Lab write-ups)/Pencils
- Composition notebook /spiral notebook
- Scientific Calculator
 - [Please check the link for expectable calculators](#)

Course Outline

Syllabus component	Teaching hours	
	SL	HL
Core	95	
1. Cell biology	15	
2. Molecular biology	21	
3. Genetics	15	
4. Ecology	12	
5. Evolution and biodiversity *	12	
6. Human physiology *	20	
Additional higher level (AHL)		60
7. Nucleic acids		9
8. Metabolism, cell respiration and photosynthesis		14
9. Plant biology *		13
10. Genetics and evolution *		8
11. Animal physiology *		16
Option	15	25
A. Neurobiology and behaviour	15	25
B. Biotechnology and bioinformatics	15	25
C. Ecology and conservation	15	25
D. Human physiology *	15	25
Practical scheme of work	40	60
Practical activities	20	40
Individual investigation (internal assessment-IA)	10	10
Group 4 project	10	10
Total teaching hours	150	240

During senior year, we will be studying the () Topics and 1 selected option along with the Practical scheme of work.*

Rules and Expectations

For us to get along this school year there are a few rules that need to be followed.

RULE #1: Be courteous and thoughtful to others. This same courtesy and respect should also be extended to people outside of the class.

RULE # 2: At the start of the period, all backpacks and purses must be placed in the back of the room.

RULE #2: Be prepared to take notes, do labs, and participate in class. If there is homework due, you should be ready to turn it in upon your arrival to class.

RULE #3: Stay in your seat during lectures and discussions.

RULE #4: Clean up the classroom before leaving.

RULE #5: Observe all safety rules. If you break a safety rule you will receive a "0" for the lab.

Rule#6 Papers are to be turned into turnitin.com when instructed anything over 15% will have to be done over for half 50% credit there will be No exceptions of plagiarizing/cheating!!

TECHNOLOGY RULES

1. No cell phones, cameras, ipods, ipads or laptops when not necessary. Don't let these things become a distraction!
2. When using laptops
 - a. Please be courteous and on task.
 - i. If you are off task with the laptop/Chromebook, it will be taken and you will receive a zero on the assignment.

Behavior Steps and Consequences

If these basic rules are followed we will have no problems and the year will be very enjoyable and fun for all of us. If these rules are not followed then there will be disruptions and the learning process will be interrupted. If you choose not to observe these rules certain things will happen.

1. A verbal warning and a reflection in your class participation grade.
2. The second time I have to ask you to do something you will be asked to stay after class so I might talk with you. At this meeting we will come up with a plan to help you observe the rules.
3. If the behavior continues, I will call home and discuss my concerns with your parents in order to try to alleviate the problem.
4. If the behavior persists, I will involve the administration and together we will devise a plan to alleviate the problem.

Make-up/Late Work Policy

- **Late Assignments** There should be no late assignments. **Late work will be accepted for 1 week with a 50% deduction in credit awarded.**
- **Absences** You are responsible for getting your missed assignments. **IT IS NOT MY RESPONSIBILITY TO REMIND YOU!! Check the schedule**
- **Work missed is due on the next day present at school.** After that date work will fall under late work policy. If you miss the day it was due, it is due upon your return. This includes exams. If you only miss the day of the exam you must take it upon your return to class.

IB BIOLOGY ACADEMIC INTEGRITY POLICY*

Quartz Hill High School expects all students to abide by ethical academic standards.

Academic dishonesty—including plagiarism, cheating or copying the work of another, using technology for illicit purposes, or any unauthorized communication between students for the purpose of gaining advantage during an examination—is strictly prohibited.

The Academic Integrity Policy covers all school-related tests, quizzes, reports, class assignments, and projects, both in and out of class.

The purpose of the Academic Integrity Policy is to prepare students for the reality created by the technology explosion, for the world of college and beyond, where cheating and plagiarism have dire consequences.

Plagiarism is not the same as cooperation or collaboration. I will often expect, ever encourage, students to work on assignments collectively. This is okay, as long as whose work being presented is clearly relayed.

- **Collaboration** is to work together (with permission) in a joint intellectual effort.
- **Plagiarism** is to commit literary theft; to steal and pass off as one’s own ideas or words, and to create the production of another. When you use someone else’s words, you must put quotation marks around them and give the writer or speaker credit by citing the source. Even if you revise or paraphrase the words of someone else, if you use someone else’s ideas you must give the author credit. Some Internet users believe that anything available on-line is public domain. Such is not the case. Ideas belong to those who create and articulate them. To use someone else’s words or ideas without giving credit to the originator is stealing.
- **Cheating** includes, but is not limited to, copying or giving an assignment to a student to be copied (unless explicitly permitted by the teacher). Cheating also includes using, supplying, or communicating in any way unauthorized materials, including textbooks, notes, calculators, computers or other unauthorized technology, during an exam or project.
- **Forgery** or **stealing** includes, but is not limited to, gaining unauthorized access to exams or answers to an exam, altering computer or grade-book records, or forging signatures for the purpose of academic advantage.

Students found to have engaged in academic dishonesty shall be subject to disciplinary as well as academic penalties, as outlined below.

Possible Consequences	
Copying class work or homework	Zero on assignment, parent notification
Plagiarizing or cheating on an lab, exam or major assignment	Zero on assignment/exam Counselor and administration notification Parent conference

** Adopted from John. F Kennedy High School’s academic integrity policy.*

Grading procedure

Tests/Quizzes/Projects	60%
Labs/Activities	30%
Homework/Participation	10%

IB grading procedure

External Assessment	80%
Internal Assessment	20%

IB External Assessment Specifications

Component	Overall weighting (%)	Approximate weighting of objectives (%)		Duration (hours)
		1+2	3	
Paper 1	20	10	10	$\frac{3}{4}$
Paper 2	40	20	20	1 $\frac{1}{4}$
Paper 3	20	10	10	1
Internal assessment	20	Covers objectives 1, 2, 3 and 4		10

External assessment details—HL

Paper 1

Duration: 1 hour

Weighting: 20%

Marks: 40

- 40 multiple-choice questions on core and AHL material, about 15 of which are common with SL.
- The questions on paper 1 test assessment objectives 1, 2 and 3.
- The use of calculators is not permitted.
- No marks are deducted for incorrect answers.

Paper 2

Duration: 2 $\frac{1}{4}$ hours

Weighting: 36%

Marks: 72

- Data-based question.
- Short-answer and extended-response questions on core and AHL material.
- Two out of three extended response questions to be attempted by candidates.
- The questions on paper 2 test assessment objectives 1, 2 and 3.
- The use of calculators is permitted. (See calculator section on the OCC.)

Paper 3

Duration: 1 $\frac{1}{4}$ hours

Weighting: 24%

Marks: 45

- Section A: candidates answer all questions, two to three short-answer questions based on experimental skills and techniques, analysis and evaluation, using unseen data linked to the core material.
- Section B: short-answer and extended-response questions from one option.
- The questions on paper 3 test assessment objectives 1, 2 and 3.
- The use of calculators is permitted. (See calculator section on the OCC.)

IB Internal Assessment Details

I have read and understand the syllabus for this course.

Student Name (printed)

Signature:

Date

Parent Name (printed)

Signature

Contact Number

Date