

IB BIOLOGY III & IV COURSE SYLLABUS

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COURSE DESCRIPTION

This course covers Biology as described by the Federal Way Course Expectations and the Washington EALR's, as well as the International Baccalaureate Program. Students will be provided with the knowledge and skills to meet grade level State and District Standards as well as IB standards in Biology. This second year of IB Biology focuses on topics in macro-biology (larger patterns in the biosphere) and covers the following topics: Statistical Analysis in Biology, Evolution, Ecology and Conservation, Human Health and Physiology, and Plant Science.

Successful completion of this year long course will satisfy 1.0 credit towards the required 2.5 credits in lab science to qualify for graduation. External Assessments for the entire two year Higher Level IB Biology curriculum occurs toward the end of this year.

Work will be stored either in the student portfolios stored in the classroom or within the student lab notebook starting the first week. It is the student's responsibility to obtain a three ring binder to be used exclusively for this class within the first week of school. Details will be forthcoming.

Classroom assessment will be both formative and summative, and will include Internal Assessments of labs and activities. Not all assessment will be graded (teacher's discretion). Successful completion of a unit will be based on the demonstration of mastery of the Standards covered. Student opportunities to make up credit for assignments and/or assessments will be dealt with on an individual basis. Students will be provided with multiple opportunities to show evidence that they have met each Standard. Meeting of all standards is the basis for passing the class.

It is possible to pass the class (meet State standards) but still not meet the Higher Level standards that allow Achievement of the IB diploma, a separate achievement which is impacted by external assessments outside of the classroom teacher's control. Students will be provided with ample opportunity to prepare for these Assessments, but, of course, ultimate responsibility falls on the student.

Consistent, daily attendance and preparation is crucial to success in this course. You are expected to be present in class daily, unless severe illness or a family emergency occurs. Being tired, having a birthday, or going on vacation are NOT examples of acceptable reasons for absenteeism.

Topics covered in IB Biology III & IV:

- I Statistics
 - Statistical Analysis
- II Evolution
 - Evolution (Standard Level)
 - The Origin of Life on Earth
 - Species and Speciation
 - Human Evolution
- III Ecology and Conservation
 - Communities and Ecosystems
 - The Greenhouse Effect
 - Populations
 - Community Ecology
 - Ecosystems and Biomes
 - Impacts of Humans on Ecosystems
 - Conservation of Biodiversity
 - Population Ecology
- IV Human Health and Physiology
 - Digestion
 - The Transport System
 - Defense Against Infection
 - Gas Exchange
 - Nerves, Hormones, and Homeostasis
 - Reproduction
 - Muscles and Movement
 - The Kidney
- V Plants
 - Plant Structure and Growth
 - Transport in Angiosperms
 - Reproduction in Angiosperms

BIOLOGY CONTRACT AND EXPECTATIONS

Outline for the terms and conditions for my participation and success in Biology.

- 1) At all times, I am expected to behave in accordance with the Federal Way School District Policies as outlined in the School Handbook and the attendance guidelines of Thomas Jefferson High School.
- 2) I will come to class on time, prepared to learn, and have all required materials.
- 3) I will clean up my work area and return any classroom equipment to its proper location before I am excused from class.
- 4) I will attend class with a positive attitude and work cooperatively with all members of the classroom.
- 5) My courtesy and honesty is expected at all times. I will respect the property, rights, and feelings of all members of this classroom.
- 6) I understand that my failure to work during a lab, work apart from my lab partner, or disrupt the work of another lab group may result in a removal from the activity, removal from class, and/or further disciplinary action..
- 7) I will meet academic honesty standards in this class by taking credit only for my own work, and giving credit to others when appropriate.
- 8) Headgear is not appropriate in class. I will keep it in my pack when in class
- 9) Walkmans/discmans/iPods/headphones/cell phones and pagers should be neither seen nor heard in class. They are liable for confiscation if used during class.

ATTENDANCE:

You are expected to be on time and present. Consistent, daily attendance and preparation is crucial to success in this course.

TARDIES:

Tardies will be handled by the administration during the tardy sweep.

LATE WORK:

I will accept late work when appropriate only in the event of an *excused absence*. All work must be turned in within three school days upon your return.
IT IS THE RESPONSIBILITY OF THE STUDENT TO GET THE WORK

AND ARRANGE THE MAKE UP.

MAKE UP EXAMS, QUIZZES AND LABS:

It is the students' responsibility to make up within three days. Bear in mind that some labs will not be able to be made up and an alternate assignment will be provided. Be sure to schedule an appointment with me.

COPYING AND CHEATING:

Copying and cheating is not inline with IB honest standards. If you are caught engaging in this behavior you will receive appropriate discipline, including the loss of the score involved, and possible loss of IB Diploma.

PARTICIPATION AND ATTITUDE:

This is a reflection of your cooperation, quality of work, consistency of work, role and attitude in class. Points for your participation and attitude will be assigned at the end of the trimester. This is designed to be a reward for those actively involved in their education.

YOUR GRADE:

Your grade will be made up of evidence from your work in meeting Standards (GLE's). All of these activities will be used to produce your evidence:

Participation	Group Projects	Daily
Assignments	Tests/quizzes	Lecture and reading notes
Labs and Activities	Internal Assessments	

GRADING SCALE:

(A) =	92-100%	(A -) =	91-90%		
(B+) =	88-89%	(B) =	82-87%	(B -) =	80-81%
(C+) =	78-79%	(C) =	72-77%	(C -) =	70-71%
(D+) =	68-69%	(D) =	62-67%	(F) =	0-61%

PORTFOLIO

Your working portfolio will be kept in class and will be updated and reviewed regularly. I will instruct you as to which assignments and tests should be placed in the portfolio. Your portfolio will be stored in a place where you will have regular access to it, should you need it. This working Portfolio will provide you with the raw material from which to construct your final Portfolio. The final Portfolio is a requirement for graduation, and provides evidence that you have met Standards for the course.

I have read, understood and agree to the contents of this contract. I take full responsibility for my own learning, cooperation, behavior and attendance in this class. Please sign below and return. You keep the signed contract in the front of your binder for reference.

Student Name:

Printed _____ Signature _____

Date _____

Parent Name:

Printed _____ Signature _____

Date _____