**West Hall High School – 2017-2018**   
**IB Biology Standard Level (Year 1)**   
**Teacher:  Leigh Ann Nicolella**

**Email:**[leighann.nicolella@hallco.org](mailto:leighann.nicolella@hallco.org)  
**Room:  227**  
**Teacher Website:**<http://www.nicolella.weebly.com>   
**School** **Phone:  770-967-9826**

**COURSE DESCRIPTION:**

The IB Diploma Programme biology standard level course covers the relationship of structure and function at all levels of complexity. This course is outlined by the International Baccalaureate Organization.  Objectives include studying the characteristics, unity, and diversity of living things; the concept of evolution as an explanation of unity and diversity; the nature of science as a human enterprise; collection, analysis and interpretation of data; and the application of biological concepts to new situations including those involving human society and populations.  The aim of the course is to develop an understanding and appreciation of the vast array of biological knowledge.

**COURSE TEXTBOOK:**

*Biology Course Companion* by: Andrew Allot and David Mindorff (Publisher: Oxford)

**SUPPLIES:**

* Textbook (checked out from WHHS Learning Commons)
* 3 ring binder, at least 1.5”, used exclusively for Biology
* Dividers
* Paper
* Pens & pencils
* Highlighter
* Calculator

**COURSE OBJECTIVES:**

Upon completion of this course, students will be able to:

* appreciate scientific study and creativity within a global context through stimulating and challenging opportunities
* acquire a body of knowledge, methods and techniques that characterize science and technology
* apply and use a body of knowledge, methods and techniques that characterize science and technology
* develop an ability to analyse, evaluate and synthesize scientific information
* develop critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities
* develop experimental and investigative scientific skills including the use of current technologies
* develop experimental and investigative scientific skills including the use of current technologies
* develop and apply 21st century communication skills in the study of science
* become critically aware, a global citizens, of the ethical implications of using science and technology
* develop an appreciation of the possibilities and limitations of science and technology
* develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge

**COURSE GRADING:**

***Late Work Policy:***

Late daily grade assignments are reduced by 15%.  Make it a priority to turn in your assignments on time.

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| **Daily Grades (Homework, Classwork, Quizzes, Notebooks, and Labs)** | 45% |
| **Tests** | 55% |
| **Final Exam** | 20% |

**COURSE CURRICULUM MODEL AND OVERVIEW: COURSE SCHEDULE:**

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| --- | --- |
| **Core**: Cell biology, Molecular biology, Genetics, Ecology, Evolution and biodiversity, and Human physiology | **95 hours** |
| **Options**: Ecology and conservation | **15 hours** |
| **Practical Work:** Investigations (Labs) and Group 4 Project | **40 hours** |
| **Total Teaching Hours:** | **150 hours** |

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| **Units/Topics for Semester 1** | **Units/Topics for Semester 2** |
| Statistical Analyses  Topic 4: Ecology | Topic 2: Molecular Biology, Pt. 2 |
| Topic 1: Cellular Biology | Topic 3: Genetics |
| Topic 2: Molecular Biology Pt. 1 | Internal Assessment Prep |

**\*Note\* - Schedule is subject to change at teacher’s discretion.**

**Attendance and tardiness:**

Once the tardy bell rings, you are **not** to be permitted into the classroom without a tardy slip. If you know you are late, please make your way to the attendance office to receive a tardy slip. Do **not** disturb class. Any student out of class without permission for more than 10 minutes will be considered cutting class and appropriate discipline will apply.

**The 5 P’s – Golden Rules**

1. **Be Prompt** – Arrive to class on time **every day** and be in your seat working on the warm-up activity or notes when the bell rings.
2. **Be Prepared** – Come prepared for class **every day** with all of the necessary materials (notebooks, pencils, notes, and an agenda – no agenda, no pass!)
3. **Be Productive** – Remain on task in class at all times, follow directions, and **stay seated** unless you have been given permission to do otherwise. No bathroom breaks during lecture!
4. **Be Patient** – Quietly raise your hand if you have a question or comment and wait calmly for the teacher to respond. When the bell rings you are dismissed so do not pack up early or line up at the door.
5. **Be Polite** – Respect yourself, classmates and the teacher with your words and actions. Do not vandalize or destroy other people’s personal belongings. Respect the classroom environment by keeping it free from trash and litter! **No food** is permitted in the classroom.
6. Cell phones are permitted but it should be used for educational purposes only. **Extensive** use of this will result in no phones at all for the whole class. Charging is not permitted in the classroom.
7. You are **NOT** permitted to sit on the counters. These are for laboratory experiments. They are not seats.

**Expectations**

1. For the most part, direct your own learning and make the most of the resources available to you.
2. Keep your notes and files ordered and easy-to-navigate.
3. Ask when you need help.
4. Offer help those in need.
5. Work safely in the lab and clean up after yourself.
6. Be on time and prepared to take an active role in class.
7. Submit assignments on time, in the right format, and submit a digital copy as needed through Turnitin.com

**Make-up Work Policy**

When a student is absent from class, it is their responsibility to make sure they make up their assignments. Please see the hanging bag that says make up work (IB Biology – Juniors). You will find all missing notes, worksheets, or activities in your corresponding class folder. Make sure to check for the correct day of the week. **It is the student's responsibility to get this work.** Zeros will result in assignments not made up by the student.

***The copy of the assignment in the make-up work folder is the only copy you will receive. If you lose this copy, it will be your responsibility to go to my website to print out another.***

**Return this page to teacher:**

Per WHHS handbook, students shall be permitted to make up all work missed, except for absences caused by out-of-school suspension, except for tests and major assignments. All make up work must be completed within ***5 days*** of the student’s return to school unless the principal or designee allows the student additional time for completion.

**If a student is absent, on the day of a test or on the day an assignment is due and has been notified of the assignment in advance or was aware of the assignment then the student will be expected to make up the test on the date of return. Tests and quizzes are announced in advance – so prepare and plan ahead!**

**I understand the information in this syllabus and agree to honor the guidelines.**

**Parents and/or Guardians**

Please read and discuss this syllabus with your student to be certain that you both understand all expectations and responsibilities. Please contact me if you have any questions or concerns. Ignorance of the policies are no excuse for failure to follow them. Your support, cooperation, and involvement will exponentially improve your student’s academic success.

This syllabus may be amended or changed as needed throughout the semester for instructional benefit.

You may view and/or print a copy of this syllabus at <http://www.nicolella.weebly.com/> or through IB Biology Year 1 Canvas course.

**Parent Signature Page**

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**Students: I have read & understand the Syllabus presented. I agree to follow all of the class procedures/guidelines set forth in this contract. I am aware that any violation of this contract or misbehavior on my part may result in removal from the laboratory, office referral, receiving a zero on the assignment, and/or any combination of these consequences.**

**Student Signature**: **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Parent/Guardian Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**