

# Year at a Glance



## Biology/Honors

2000310/2000320

### Course Description:

This course provides students with exploratory activities, laboratory experiences and real-life applications in the biological sciences. The content includes the following concepts: nature of science, matter, energy, chemical processes of life, reproduction and communication of cells, basic study of genetics, organization, classification and taxonomy, structure, reproduction and function of plants, animals, and microorganisms, interdependence of living things, adaptations, and the impact of technology on society. Preserved animal studies may be a part of this course. Students must take the End-of-Course Exam (EOC) administered through the State of Florida. The Biology EOC will count as 30% of students' final grade in the course.

### Textbook Publisher:

Savvas – Miller and Levine, Biology (Students have online access through [My.SarasotaCountySchools.net](http://My.SarasotaCountySchools.net))

### Other Supplemental Resources:

[FSA Portal](#)

### Standards:

Available on [CPalms](#)

[Biology](#)

[Biology Honors](#)

### Benchmark Assessment Dates

Pre-Assessment – Administered with the first two weeks of the start of school

Annual Progress 1 – November

Midterm – School Specific Common Midterm

Annual Progress 2 – March

End of Course Exam – May

Note teachers may use additional resources as noted on individual classroom syllabuses. For specific questions regarding individual classrooms please contact the teacher for clarification.

Quarter	Major Concepts/Topics *Units aligned to Miller and Levine Textbook
1	<b>Unit 1 – Nature of Science</b> The Science of Biology The Chemistry of Life
	<b>Unit 3 - Cells</b> Cell Structure and Function Photosynthesis Cellular Respiration Cell Growth and Division
2	<b>Unit 4 – Genetics</b> Introduction to Genetics DNA RNA and Protein Synthesis The Human Genome Biotechnology
3	<b>Unit 5 – Evolution</b> Evolution of Populations Biodiversity and Classification History of Life
4	<b>Unit 6 - Diversity of Life</b> Viruses, Prokaryotes, Protists, and Fungi Plants Plant Structure and Function Animal Evolution, Diversity, and Behavior The Human Body Animal Systems
	<b>Unit 2 - Ecology</b> The Biosphere Populations Communities and Ecosystem Dynamics Humans and Global Change

Students earning a [standard high school diploma](#) must earn three (3) Science credits. One (1) of which must be in Biology 1, the other two (2) of the three (3) must be equally rigorous with laboratory components. The student must also pass the Florida Standard Assessment (FSA) Biology 1 End of Course Exam (EOC), which constitutes 30 percent of the final course grade. More information on graduation requirements and concordant scores can be found here: [Graduation Requirements for Florida’s Statewide Assessments](#).

This guide represents a recommended sequence that can be used voluntarily by teachers. Dates may vary depending on individual classrooms. For specific questions regarding pacing please contact the individual teacher for clarification.