



Course Syllabus

Living Earth Biology | 2021-2022

Objective:

To understand biological concepts, identify characteristics and basic needs of living organisms and ecosystems, and to apply theoretical and practical knowledge when solving questions.

Prerequisites:

No prior knowledge is expected for this course.

Instructor Contact Information:

Edmond Ling (edmond.ling@fremontstem.com)

Website:

All course materials will be posted on the course website

Class time:

Lecture: Sunday 6:00 PM - 7:30 PM

Required Materials:

- Notebook for taking notes
- Calculator
- Pencils, erasers, etc.

Program Cost: \$475/semester

Note: the full program cost is due on the first day of lecture, either in person (cash/check) or online transfer. If the student for some reason must miss the first day, the fees must be paid by the first attended lecture. The program fee is non-refundable unless unexpected and severe circumstances arise.

Homework:

Homework is assigned for extra practice but is entirely **optional**. Answer keys will be available online the day the homework assignment is due. For help with homework problems, feel free to email me.

Class format:

Lecture will last about an hour. The last 30 minutes of class could be used for extra lecture material, quizzes, or practice problems.

**Textbooks:**

The textbook provided by the student's school will be fine for this course.

- Supplementary text:
 - Reece, Jane B. and Ury, Lisa A. Campbell Biology, 9 th edition. Pearson Higher Education Publishing, 2010.

Notes:

Please bring a notebook and pencil (or pens and highlighters) to take notes. This is for your own use and it is a good habit to build for any classes you will be taking in the future.

Tentative Nature of the Syllabus:

The content of this syllabus and schedule are subject to change or revision. The instructor holds the right to make changes of the class as necessary. Students and parents will be identified of any changes via email.

Special Accomodation:

If your students require special accommodations, please notify the instructor as soon as possible.



FALL and SPRING SEMESTER

Tentative Schedule

Dates	Lesson	Topic
Week 1 08/29/2021	1	Chemistry of Life
Week 2 09/05/2021	2	Chemistry of Life
Week 3 09/12/2021	3	Cell Structure and Function
Week 4 09/19/2021	4	Cell Structure and Function
Week 5 09/26/2021	5	Photosynthesis
Week 6 10/03/2021	6	Photosynthesis
Week 7 10/10/2021	7	Cellular Respiration
Week 8 10/17/2021	8	Cellular Respiration
Week 9 10/24/2021	9	Cellular Respiration
Week 10 10/31/2021	10	Cell Communication and Cell Cycle
Week 11 11/07/2021	11	Cell Communication and Cell Cycle
Week 12 11/14/2021	12	Cell Communication and Cell Cycle
Week 13 11/21/2021		Thanksgiving Break
Week 14 11/28/2021	13	Heredity
Week 15 12/05/2021	14	Heredity
Week 16 12/12/2021	15	Heredity



Week 17 12/19/2021	16	Heredity
Week 18 12/26/2021		Winter Break
Week 19 01/02/2022		Winter Break
Week 20 01/09/2022	17	Gene Expression and Regulation
Week 21 01/16/2022	18	Gene Expression and Regulation
Week 22 01/23/2022	19	Gene Expression and Regulation
Week 23 01/30/2022	20	Gene Expression and Regulation
Week 24 02/06/2022	21	Biological Diversity, Evolution, Natural Selection, and Plants
Week 25 02/13/2022	22	Biological Diversity, Evolution, Natural Selection, and Plants
Week 26 02/20/2022	23	Biological Diversity, Evolution, Natural Selection, and Plants
Week 27 02/27/2022	24	Biological Diversity, Evolution, Natural Selection, and Plants
Week 28 03/06/2022	25	Biological Diversity, Evolution, Natural Selection, and Plants
Week 29 03/13/2022	26	Biological Diversity, Evolution, Natural Selection, and Plants
Week 30 03/20/2022	27	Biological Diversity, Evolution, Natural Selection, and Plants
Week 31 03/27/2022	28	Ecology and Animal Behavior
Week 32 04/03/2022	29	Ecology and Animal Behavior
Week 33 04/10/2022	30	Ecology and Animal Behavior
Week 34 04/17/2022		Spring Break
Week 35 04/24/2022	31	Human Physiology



Week 36 05/01/2022	32	Human Physiology
Week 37 05/08/2022	33	Animal Reproduction and Development
Week 38 05/15/2022	34	Animal Reproduction and Development
Week 39 05/22/2022	35	Human Immunology
Week 40 05/29/2022	36	Human Immunology