

THE ECOLOGY OF A SUSTAINABLE SYSTEM: Summer 2019

MONTH	Monday	Tuesday	Wednesday	Thursday	Friday	Sat. / Sun.	Total Hours / Comments
June 3-7	4(op)					2 (op)	6(All Optional)
June 10-14			4	4	4 (TOUR)	2(op)	12+2
June 17-21	2	2	2	2	2	2(op)	10+2
June 24-28	2	2	2	2	2	2(op)	10+2
July 1-5	2	2	2		2	2(op)	8+2
July 8-12	2	2	2	2	2		10
July 15-19	2	2	2	2	2		10
July 22-26	2	2	2	2	2		10
July / Aug. 29-2	2	2	2	2	2		10
Aug. 5-9	2	2	2	2	2		10
Aug. 12-16	2	2	2				6

- There is a \$250.00 fee for this course to be paid by the first day of class.
- **FIRST MANDATORY DAY OF CLASS – Thursday, June 12th @ 9:00 am in the school garden (Behind the HS / MS).**
- All students are expected to put in a total of 120 hours, including class (Daily from 9:00 am to 11:00 am) and independent project time, to receive 1 full credit of life science. There will be 94 hours of scheduled class time (not including weekend field trips, special events). Students will need to complete at least 30 hours of independent, project work to finish their summer class obligation. This is intended to make the program more flexible for students.
- Students can miss class sessions (up to one week) with previous notification and without penalty. This is meant to be used for family vacations and/or other obligations. Students missing more than one week (total) will need to develop a plan with the instructor for additional independent project time.
- There will be several opportunities for additional or make-up hours including extended class days, weekend field trips, special events, projects and watering on weekends. On some days we may be meeting in the **GIS Land Lab for class**. Students will need to provide their own transportation.
- Your time in class will be both instructional (formal and informal) and hands-on. Assessments will be based on participation, performance and knowledge acquired. Assessments will be mostly informal, based on conversations between the instructor and the student and observations of the student's performance in the garden. There will be several readings and written assignments to be completed out of class and several in class written assessments used to evaluate the student's progress. These assessments will be for the purpose of formative evaluation only. They will not be assigned a grade.
- Students will be running the **"Market Stand" (harvesting, displaying and selling our produce)** on Monday, Wednesday and Friday. They will be handling both food and money as a part of the curriculum. Tuesdays and Thursdays will be strictly work / class days.
- **EXPECT TO BE OUTSIDE EVERY CLASS PERIOD.** Rain days will be handled on an individual basis, as discussed the first day of class.
- **GARDENING CAN BE HARD WORK, BUT IT IS REWARDING!**
- Students will be allowed to harvest vegetables for their own use and enjoyment!

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COURSE OF STUDY: (Curriculum built around a sustainable, agricultural system and a 55 acres Land Lab, reflecting both pure and applied science.)

- **Ecology**
 - Interactions (Plants & Other Organisms) and Patterns
 - Bio-Chemical Cycles
 - Succession and Edge Effect
 - Wetlands and Ecosystem Services
 - Restoration Ecology
 - Rain Gardens, Permaculture, Eco-mimicry
 - Bio-Diversity
- **Biology of Plants**
 - Propagation
 - Germination
 - Genetics (Heirloom Plants and Seed Saving)
- **Sustainable (Plant Positive) Garden Management**
 - Companion Planting
 - Integrated Pest Management
 - Composting
 - Soil Development and Maintenance
 - Water Conservation
- **Farmers' Markets and Marketing**
 - Food Handling (Safety) Regulations
 - Food Preservation and Seasonality of Food
 - Marketing and Event Planning (Organization)
- **Current Environmental Issues**
 - Food Security
 - Food Production, Environmental Impact
 - Season Extension
 - Hydroponics / Aquaponics
 - Agroforestry
 - Soil Conservation, Soil Quality, Erosion
 - Water Quality
- **Environmental Education (Youth Theme Days) / Mentoring**
 - Bio-philis
 - Outdoor Education / Interpretation
 - Wellness

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METHODOLOGY: (The above information will be presented by the following methods)

- In Class Discussions and Journaling
- Reading Assignments / Handouts
- Movies ("FRESH", "SEED", etc.)
- Field Trips (GIS Land Lab, Dawes, Local Organic Farms, the Franklin Park Conservatory, etc.)
- Theme Days (Community out-reach: "Garden Magic", "Scavenger Hunt", "Little Farmer Day", etc.)
- Workshops (Rain Garden, Composting, Season Extension, Aquaponics)
- Independent Study (30 hours)
- Summative Final Exam (Informative)

For Questions Please Contact:

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For more information, check us out on Facebook at: Granville Schools Sustainability Project

