

THE ECOLOGY OF A SUSTAINABLE SYSTEM: Summer 2024

MONTH	Monday	Tuesday	Wednesday	Thursday	Friday	Sat. / Sun.	Total Hours / Comments
Week of June 3rd	3	3	3	3	3		15 (9)
Week of June 10 th			3	3	3		9
Week of June 17 th	3	3	3	3	3		15
Week of June 24 th	3	3	3	3	3		15 (12)
Week of July 1 st	3	3	3		3		12
Week of July 8 th	3	3	3	3	3		15
Week of July 15 th	3	3	3	3	3		15
Week of July 22 nd	3	3	3	3	3		15
Week of July 29 th	3	3	3	3	3		15
Week of August 5 th	3	3	3	3	3		15
Week of August 12 th	3	3	3				9 (0)

- There is a \$250.00 fee for this course to be paid by the last day of the 2023 - 2024 school year. (May 23rd)
- **FIRST MANDATORY DAY OF CLASS – Thursday, June 5th @ 9:00 am to 12:00 (noon) in the school garden (Behind the HS / MS)**
- Class will typically run from 9:00am to 12:00 (noon), but the start and end time of class is somewhat flexible depending on weather conditions and additional student commitments (practice). Please communicate with the teacher if you need flexibility.
- All students are expected to put in a total of 120 hours to receive 1 full credit of life science. There will be 150 hours of scheduled class time (not including a few optional homework assignments, possible weekend field trips, special events). **All hours must be completed by the end of the first quarter.**
- Students can miss class sessions (up to two week) with previous notification and without penalty. This is meant to be used for family vacations and/or other obligations. Students missing more than two weeks (total) will need to develop a plan with the instructor for additional hours or optional assignments.
- There will be several opportunities for additional or make-up hours including extended class days, field trips, special events, projects, watering on weekends and Chickens.
- 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 journaling assessments used to evaluate the student's understanding. These assessments will be for the purpose of formative evaluation only. They will not be assigned a grade but could count for class hours as indicated by the teacher.
- One the above chart **YELLOW** represents optional hours and **GREEN** represents special events in the garden.
- 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 during the first day of class. Standard communication will be through texts messages.
- **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 – **Students will be working with chickens, active bee hives and goats!**
 - 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 – Sustainable Farming**
 - 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-philía
 - 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”, “Dirt”, “The Biggest, Little Farm”, 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:

Jim Reding

GHS Science Teacher

(740)587-8105

(704)334-2085

jreding@granvilleschools.org

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

