



FISH AND WILDLIFE MANAGEMENT (FWMT)
FWMT 2030 Fish Pond Management
COURSE SYLLABUS
Spring Semester 2021

COURSE INFORMATION

Credit Hours/Minutes: 3/3800

Campus/Class Location: Building (Bldg.). 6 Room #6110

Class Meets: T & TH 8:00-10:40 am

Number (CRN): 40117

Instructor Contact Information

Instructor Name: Sherry Sturgis

Professional Bio: I received my B.S. and M.S. in Biology from Georgia Southern University, with an emphasis in Ecology. I am an Ecologist, Conservationist, Wildlife Rehabilitator, and Environmental Educator.

Office Location: Room # 6110

Office Hours: Mon 7:00am-9:00 am, Tues 7:00 am-8:00 am & 2:00pm-5:00 pm, Wed 7:00 am-8:00am & 3:00pm-5:00 pm, and Thurs 2:00pm-3:00pm (Swainsboro)

Email Address: [Sherry Sturgis](mailto:Sherry.Sturgis@southeasterntech.edu) sturgis@southeasterntech.edu

Phone: 478-289-2303

Cell Phone: 912-682-2376, please text me first. Please contact me only if you really need to reach me. I do not mind you contacting me, just don't abuse the privilege.

Fax Number: NA

Tutoring Hours: By appointment

Note: The schedule is subject to change. The weather may influence our labs. If we cannot go out in the field, we will use time wisely in class or the computer lab for assignments or research. We will have field trips, I will let you know as soon as I know these dates. There may be options for students to earn DNR volunteer credits on certain days. This will be a great opportunity for you. Field trip are required, if you cannot attend a field trip, you need to discuss it with me as soon as possible.

Labs are a large percentage of this course. You need to attend all labs. Your grade will be impacted if you miss labs. Cell phones should not be out unless we are using them for class. Do not have cell phones out if we are working with equipment in the field. Our lab time will be spent at Sturgis Farm & Vineyard, and other nearby pond sites.

SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Handbook](https://catalog.southeasterntech.edu/college-catalog/downloads/current.pdf) (<https://catalog.southeasterntech.edu/college-catalog/downloads/current.pdf>).

REQUIRED TEXT

A All-Weather Field Notebook #350 is required for labs. I will provide field guides for identification of aquatic plants, while in the field. I will also provide a pond management booklet, printed by the Georgia Department of Natural Resources, as well as pdf files for reading assignments.

MAKEUP GUIDELINES

No makeup assignments, labs or tests will be given. A zero will be given if you miss a test or a lab day. Only students with extenuating circumstances (who contact the instructor on the day of the test regarding their absence) will be allowed to take a makeup test, which will replace the zero. A zero will also be given for assignments which are not turned in on due dates, you may receive partial credit for work turned in late. Extenuating circumstances are determined at the instructor's discretion. Unless otherwise scheduled with the instructor, it is expected that the missed test will be taken the next day, scheduled outside of regular class time. It is within the instructor's discretion to accept or reject late assignments. **Failure to take the final exam/practicum at the end of the semester will result in a grade of zero.** Students are expected to complete all work.

REQUIRED SUPPLIES & SOFTWARE

Pencils, paper, highlighter, field manual, boots, snake boots, muck boots, sunglasses. Access to computer with MS word. Requires student to be proficient in the use of Blackboard. This is a web enhanced course. Copies of PowerPoint presentations (PPTs) will be placed on Blackboard. Students are expected to access Blackboard and their email on a regular basis.

Students should not share login credentials with others and should change passwords periodically to maintain security.

COURSE DESCRIPTION

This course covers the management of fish ponds. Emphasis is placed on the techniques used to maintain a healthy and productive pond for sport and recreation fishing. Upon completion students should be familiar with pond management techniques. Topics covered include; Site Selection, Pond Construction, Water Parameter Testing and Sampling, Liming and Fertilization, Stocking, Harvesting, Aquatic Weed Identification and Control, and Nuisance Control.

MAJOR COURSE COMPETENCIES

Topics include site selection and pond construction, water parameter testing, liming and fertilization, stocking and harvest rates, aquatic weed identification and control, nuisance plant or animal control, and general sampling techniques

PREREQUISITE(S)

None

COURSE OUTLINE

1. Site Selection
2. Pond construction
3. Water Parameter Testing
4. Liming and Fertilization
5. Stocking
6. Harvesting
7. Aquatic Weed Identification and Control
8. Nuisance Control

GENERAL EDUCATION CORE COMPETENCIES

Southeastern Technical College has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

STUDENT REQUIREMENTS

Students are responsible for policies and procedures included in the Catalog and Handbook. FWMT students are responsible for keeping clean, weather appropriate, dry clothing with them at all times. Failure to have appropriate accessories (waders, boots) does not excuse any student from participating in all field labs. Students are required to attend field trips and volunteer work days. Students will be notified of the dates as soon as possible. Students are responsible for studying all materials given by the instructor and posted on Blackboard. **Students are responsible for checking Blackboard daily. LESSON PLAN SUBJECT TO CHANGE AT INSTRUCTOR'S DISCRETION**

Students are responsible for the policies and procedures in the STC Student Handbook. Additionally, during exams, students are to place all notebooks, bags, and other belongings on the floor or on the counters located in the back and sides of the classroom. Also during examinations students are to be seated with one empty chair between each student. No talking is permitted once the exams are handed out. **Students found with their cellphone or any other personal communication device (including smart watches) will be considered cheating and given a zero for the exam. This includes taking out a phone or similar device after the student has completed the exam but while others in the classroom are still testing.**

Students are expected to exhibit professional behavior at all times. Each student is to show respect and concern for fellow students and for the instructor. Insubordination will not be tolerated, and disciplinary measures will be enacted.

COVID-19 MASK REQUIREMENT

Masks or face coverings must be worn at all times while on the campus of Southeastern Technical College. This measure is being implemented to reduce COVID-19 related health risks for everyone engaged in the educational process. Masks or face coverings must be worn over the nose and mouth, in accordance with the Centers for Disease Control and Prevention (CDC). A student's refusal to wear a mask or face covering will be considered a classroom disruption and the student may be asked to leave campus and/or receive further discipline.

COVID-19 SIGNS AND SYMPTOMS

We encourage individuals to monitor for the signs and symptoms of COVID-19 prior to coming on campus.

If you have experienced the symptoms listed below or have a body temperature 100.4°F or higher, we encourage you to self-quarantine at home and contact a primary care physician's office, local urgent care facility, or health department for further direction. Please notify your instructor(s) by email and do not come on campus for any reason.

COVID-19 Key Symptoms
Fever or felt feverish
Cough: new or worsening, not attributed to another health condition
Shortness of breath, not attributed to another health condition

COVID-19 Key Symptoms
New loss of taste or smell
Chills; Repeated shaking with chills
Sore throat, not attributed to another health condition
Muscle pain, not attributed to another health condition or exercise
Headache, not attributed to another health condition
Diarrhea (unless due to known cause)
In the past 14 days, if you:
Have had close contact with or are caring for an individual diagnosed with COVID-19 at home (not in healthcare setting), please do not come on campus and contact your instructor (s).

COVID-19 SELF-REPORTING REQUIREMENT

Students, who test positive for COVID-19 or who have been exposed to a COVID-19 positive person, are required to self-report using the COVID 19 Health Reporting Form <https://bit.ly/2Xq4g0f>. Report all positive cases of COVID-19 to your instructor and Stephannie Waters, Exposure Control Coordinator, swaters@southeasterntech.edu, 912-538-3195.

TRADITIONAL ATTENDANCE GUIDELINES

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of "F" (Failing 0-59) and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an "F" in a course.

STUDENTS WITH DISABILITIES

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

Swainsboro Campus: [Macy Gay \(mgay@southeasterntech.edu\)](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1210.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

SPECIFIC ABSENCES

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

PREGNANCY

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please make arrangements with the appropriate campus coordinator.

Swainsboro Campus: [Macy Gay \(mgay@southeasterntech.edu\)](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1210.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

It is strongly encouraged that requests for consideration be made **PRIOR** to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery **MAY NOT** be accommodated. The coordinator will contact your instructor to discuss accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" (Withdrawn) is assigned for the course(s) when the student completes the withdrawal form.

Important – Student-initiated withdrawals are not allowed after the 65% point. After the 65% point of the term in which the student is enrolled, the student has earned the right to a letter grade and will receive a grade for the course. Please note: Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of "F" (Failing 0-59) being assigned.

Informing your instructor that you will not return to his/her course, does not satisfy the approved withdrawal procedure outlined above.

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. A grade of "W" will count in attempted hour calculations for the purpose of Financial Aid.

ACADEMIC DISHONESTY POLICY

The Southeastern Technical College Academic Dishonesty Policy states that all forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the Southeastern Technical College Catalog and Handbook.

PROCEDURE FOR ACADEMIC MISCONDUCT

The procedure for dealing with academic misconduct and dishonesty is as follows:

1. First Offense

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

2. Second Offense

Student is given a grade of "WF" (Withdrawn Failing) for the course in which offense occurs. The

instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

3. Third Offense

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of third offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

STATEMENT OF NON-DISCRIMINATION

The Technical College System of Georgia (TCSG) and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member, or citizenship status (except in those special circumstances permitted or mandated by law). This nondiscrimination policy encompasses the operation of all technical college-administered programs, federally financed programs, educational programs and activities involving admissions, scholarships and loans, student life, and athletics. It also applies to the recruitment and employment of personnel and contracting for goods and services.

All work and campus environments shall be free from unlawful forms of discrimination, harassment and retaliation as outlined under Title IX of the Educational Amendments of 1972, Title VI and Title VII of the Civil Rights Act of 1964, as amended, the Age Discrimination in Employment Act of 1967, as amended, Executive Order 11246, as amended, the Vietnam Era Veterans Readjustment Act of 1974, as amended, Section 504 of the Rehabilitation Act of 1973, as amended, the Americans With Disabilities Act of 1990, as amended, the Equal Pay Act, Lilly Ledbetter Fair Pay Act of 2009, the Georgia Fair Employment Act of 1978, as amended, the Immigration Reform and Control Act of 1986, the Genetic Information Nondiscrimination Act of 2008, the Workforce Investment Act of 1998 and other related mandates under TCSG Policy, federal or state statutes.

The Technical College System and Technical Colleges shall promote the realization of equal opportunity through a positive continuing program of specific practices designed to ensure the full realization of equal opportunity.

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

<p>American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer</p>	<p>Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer</p>
<p>Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1st Street, Vidalia Office 165 Phone: 912-538-3126 Email: Helen Thomas hthomas@southeasterntech.edu</p>	<p>Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1st Street, Vidalia Office 138B Phone: 912-538-3230 Email: Lanie Jonas ljonas@southeasterntech.edu</p>

ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you

find a problem that prevents access, please contact the course instructor.

GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College's website.

ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the [Southeastern Technical College \(STC\) Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu).

TECHNICAL COLLEGE SYSTEM OF GEORGIA (TCSG) GUARANTEE/WARRANTY STATEMENT

The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.

GRADING POLICY

Assessment/Assignment	Percentage
Labs and lab summaries	45%
Exams (3)	30%
Final Exam (Pond Management Project)	15%
Quizzes, articles & assignments	10%

GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

FISH AND WILDLIFE MANAGEMENT
FWMT 2030 Fish Pond Management
Spring Semester 2020 Lesson Plan

Date/Week	Topics/Content	Labs/field days	Assignments & Tests	Competency Area
Week of 01/11	What is Pond Management? Pond habitat variation Aquatic food Web Cellular Respiration, Photosynthesis, and Decomposition Review Hydrology Cycle Pond Stratifications, Pond "turn-over"	Syllabus, Policies/Procedures for lab and lab summaries No lab this week Note: All lab summaries are due the week following a completed lab	Read Management of Georgia Fish Ponds Manual, Georgia Department of Natural Resources Sections on Introduction and Pond Construction Read the Pond Management Guide, North Carolina Cooperation Extension Service, pdf file pages 1-6 Hydrology Assignment 1, Read the Federal Emergency Management Agency FEMA pdf file on Hydrology, The Study of Water Movement and answer the related questions	n/a

Date/Week	Topics/Content	Labs/field days	Assignments & Tests	Competency Area
Week of 01/18 MLK Holiday on 01/18	What is a pond? Types of Ponds Site Selection Watershed Pond Construction Pond Preparation Soil properties, dam and core Overflow control Sloped sides and weed control	Lab 1- Pond Variation Lab at Sturgis Farms, Groups assigned a pond, data collection on their ponds, measure pond size	Read Management of Georgia Fish Ponds Manual, Georgia Department of Natural Resources Sections on Introduction and Pond Construction Read the Pond Management Guide, North Carolina Cooperation Extension Service, pdf file pages 1-6,15, & 18 Read Georgia Adopt-A-Stream, Getting to Know Your Watersheds, pdf file, Chapter 1 Hydrology Assignment 1 Due Read the Federal Emergency Management Agency FEMA pdf file on Hydrology, The Study of Water Movement and answer the related questions	1, 2 a, b, c
Week of 1/25	Overflow control Sloped sides and weed control Water parameter testing pH Scale TDS Total Dissolved Solids Dissolved Oxygen Temperature Turbidity & Clarity	Lab 2- pH and TDS (Total Dissolved Solids) mini lab on various substances in class	Read the Pond Management Guide, North Carolina Cooperation Extension Service, pdf file pages 1-6, 11, 15, & 18 Discuss outline for groups & their ponds	3,4 a, b, c

Date/Week	Topics/Content	Labs/field days	Assignments & Tests	Competency Area
Week of 02/01	Water parameter testing Dissolved oxygen pH scale (acids & base) temperature turbidity clarity Secchi disk	Lab 3 -Water quality testing and data collection at various pond sites in Emanuel County	Outline/summary on group pond goals due Assignment 2 - Read South Carolina Fish Pond Management Guide, SC Department of Natural Resources, pdf file, pages 1-10, answer the related questions Review for Exam 1	3,4 a, b, c
Week of 02/08	Water parameter testing Dissolved oxygen pH temperature turbidity clarity Secchi disk Symptoms of oxygen depletion Treatment Liming and Fertilization Application of lime based on pH, fertilization/ water amendments	Lab 4 -Water sampling from local ponds, organisms in pond water, Algal bloom Run-off	Read Management of Georgia Fish Ponds Manual, Georgia Department of Natural Resources Sections on Introduction and Pond Construction, page 12-15 Read the Pond Management Guide, North Carolina Cooperation Extension Service, pdf file Chapter 3, pages 7-14 Assignment 2 Due - Read South Carolina Fish Pond Management Guide, SC Department of Natural Resources, pdf file, pages 1-10, answer the related questions Exam 1	3,4 a, b, c

Date/Week	Topics/Content	Labs/field days	Assignments & Tests	Competency Area
Week of 02/15	<p>Stocking fish in pond Fry Stocking rates and ratios Harvest rates, harvest guidelines</p> <p>Calculate appropriate numbers/species</p> <p>Fish Sampling Seining/trapping</p>	Lab 5 -Sample trapping/sein (fish species survey)	<p>Read Management of Georgia Fish Ponds Manual, Georgia Department of Natural Resources Sections on Introduction and Pond Construction, pages 9-11 on Catfish stocking rates</p> <p>Read South Carolina Fish Pond Management Guide, SC Department of Natural Resources, pdf file, pages 1-10</p> <p>Read the Pond Management Guide, North Carolina Cooperation Extension Service, pdf file Chapter 2, Pages 7-16</p>	5,6 a, b, c
Week of 02/22	<p>Stocking fish in pond Fry Stocking rates and ratios Harvest rates, harvest guidelines Calculate appropriate numbers/species</p> <p>Fish Sampling Seining/trapping</p>	Lab 6 -Pond seining GA DNR Fish Hatchery Work Day	<p>Read Management of Georgia Fish Ponds Manual, Georgia Department of Natural Resources Sections on Fish Stocking Rates, pages 9-11</p> <p>Read South Carolina Fish Pond Management Guide, SC Department of Natural Resources, pdf file, pages 11</p> <p>Assignment 3- Answer the questions about the GA DNR Fish Work Day</p>	5, 6 a, b, c

Date/Week	Topics/Content	Labs/field days	Assignments & Tests	Competency Area
Week of 03/01	Stocking fish in pond Fry Stocking rates and ratios Harvest rates, harvest guidelines Aquatic Plant Groups Characteristics of Aquatic Plants Adaptations Aquatic Weed Identification for Georgia ponds Algae Chara Protista Commonly found species Invasive species	Lab 7 -Stocking (study variation in fish length & size)	Read Management of Georgia Fish Ponds Manual, Georgia Department of Natural Resources Sections on Fish Stocking Rates, pages 9-11 Read South Carolina Fish Pond Management Guide, SC Department of Natural Resources, pdf file, pages 11 Assignment 3 Due - Answer the related questions about the GA DNR Fish Work Day Read and study; Nuisance Aquatic Plant in Urban lakes and Ponds, pdf pages 1-50 and Weed Book, pdf for identification of aquatic weeds	5,6 a, b, c
Week of 03/08	Aquatic Plant Groups Characteristics of Aquatic Plants Adaptations Aquatic Weed Identification for Georgia ponds Algae Chara Protista Commonly found species Invasive species	Lab 8 - Aquatic plant Identification and collection, Submerged weeds Floating weeds	Read and study; Nuisance Aquatic Plant in Urban lakes and Ponds, pdf pages 1-50, and Weed Book, pdf for identification of aquatic weeds Assignment 4 - Select a research article on any aquatic invasive plant species which is problematic in GA	7 a, b, c

Date/Week	Topics/Content	Labs/field days	Assignments & Tests	Competency Area
Week of 03/29	Problems with Ponds Poor fishing Nuisance Control of Species Bait Minnows Turtles Otters, beavers, and muskrats Alligators Water Birds Snakes Other species	Lab 11- Pond Nuisance Species identification; tracks, scat, skull and other signs of nuisance animals in relation to ponds	Read Management of Georgia Fish Ponds Manual, Georgia Department of Natural Resources Sections on Pond Problems, pages 22-26 Read the Pond Management Guide, North Carolina Cooperation Extension Service, pdf file Chapter 4, pages 26-28 Assignment 5- Article on Nuisance Aquatic Animal Species, select a species from the assigned readings	8 a, b, c
Week of 04/05 Spring Break, No classes	No Classes	No Classes		n/a
Week of 04/12	Sampling Techniques for fish populations GA DNR; The Stream Survey Team Pond Management Projects Discussion	Lab 12- Sampling Techniques Seine, rod/reel electro-fishing GA DNR Fish Hatchery	Go to the GA DNR Wildlife Division Website and read the information on The Stream Survey Team Assignment 5 Due- Article on Nuisance Aquatic Animal Species, select a species from the assigned readings Review for Exam 3	8 a, b, c
Week of 04/19	Sampling Techniques for fish populations Pond Management Projects Discussion	Lab 13- Final Project lab work day	Final Projects Due Exam 3	1-8 a, b, c

Date/Week	Topics/Content	Labs/field days	Assignments & Tests	Competency Area
Week of 04/26	All topics covered throughout the course Review for Final	No Lab Final Projects Due	Review for Final Exam Final Exam	5,6,7,8 a, b, c,
Week of 05/03	Finals		Final Exam	1- 8 a, b, c

COMPETENCY AREAS:

1. Site Selection
2. Pond Construction
3. Water Parameter Testing
4. Liming and Fertilization
5. Stocking
6. Harvesting
7. Aquatic Weed Identification and Control
8. Nuisance Control

GENERAL CORE EDUCATIONAL COMPETENCIES:

- a) The ability to utilize standard written English.
- b) The ability to solve practical mathematical problems.
- c) The ability to read, analyze, and interpret information.

Rubric for Pond Management Project (100 Points Total)

General Information:

Throughout the semester you will gather data on a particular pond at Sturgis Farms & Vineyards. You are expected to compose and display your data neatly in a notebook. It will be easier to keep track of this data weekly, instead of trying to put it all together at the end of the semester. You will be graded on this notebook at the end of the semester. The grading scale is as follows;

Pond Data Notebook Display- 33.3 Points

Is the data notebook well organized, structured, and neat? Each weekly report should be dated and data included for that particular day. You should type a weekly summary for each lab in reference to you assigned pond. You may use a font of 12, such as Calibri, and double space your text. Pictures, charts, and tables would be a great additive.

Pond Data- 33.3 Points

Is all of the data present and correct? Your data records must be complete for each day and correct. Such data may include the following; habitat, pond design, watershed, aquatic weeds present, weekly water quality tests conducted (temperature, dissolved oxygen, pH, TDS) pond seining, fish stocking rates, any fertilizer added, or chemical application.

Pond Recommendations & Management Plans- 33.3 Points

Students must write a 1 page summary of their work throughout the semester. The concentration should lean heavily upon your suggestions and recommendations for this pond in regards to future use and management. You may use a font size 12, such as Calibri and double space your text. I want you to show me that you have a clear grasp and understanding of the following; your pond's general information and habitat, the data and what it means, and the goals you have in mind for the future of this pond.