Ecophysiology of Crop Production 2023
AGR 4512 – Undergraduate Sections
Agronomy Department, University of Florida
3 credit hours

Instructor:
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To Contact Instructor:
Students are encouraged to contact the instructor. I can be reached by phone (352-294-1588) or email (estradaj@ufl.edu or via the Canvas site) as needed to clear any doubts about how the course is conducted or about the subject matter (or just to discuss anything of interest or concern). I read email daily and will be happy to conduct general communications via email. Office hours are by request.

Course Description and Objective:
• Physiological, ecological, and environmental responses that impact growth, development and yield formation of cultivated crops
• Objective: To provide students with an understanding and appreciation of the fundamental physiological processes (at the cellular, leaf, whole-plant, and crop canopy levels) that are ultimately integrated to produce crop biomass and yield.

Prerequisite:
PLS 3004C (Principles of Plant Science), or equivalent

Class Schedule:
All lectures will be delivered online through Canvas via an asynchronous format. Two separate files will be posted for each lesson: a detailed pdf of lecture notes and a video of live lectures in 2019 and 2020. Information from both sources can and will be used for quizzes and exams.

Classroom:
N/A

Class Attendance and Participation:
Online students are expected to view all lectures and complete assignments on or prior to posted deadlines. It is the student’s responsibility to turn in all assignments on time.

Technology Requirements:
Access to and on-going use of a computer is required for all students to successfully complete their UF degree programs. Competency in the basic use of a computer is expected for students in this course. Class participation will require consistent access to the Internet. You are strongly encouraged to have reliable Internet access at home, but the University also has student computer labs available to students who wish to use them. The complete official UF policy on the student computer requirement is found at:
https://wiki.helpdesk.ufl.edu/FAQs/UFComputerRequirements

Learning Management System (Course Platform) – Canvas:
Learning resources and assignments for this course will be delivered in **E-Learning Canvas**, the centrally-supported course management system at UF. For a tutorial regarding E-Learning Canvas functionality, go to [https://lss.at.ufl.edu/help/Main_Page_Canvas](https://lss.at.ufl.edu/help/Main_Page_Canvas)

Students enrolled in the course should login to Canvas on the first day of the course at: [http://lss.at.ufl.edu](http://lss.at.ufl.edu). You will use your Gatorlink name and password to login to Canvas. If you have any problems, contact the UF IT Help Desk (see contact information below) and/or notify me.

**Essentials on the Canvas Site for the course:**

- All Powerpoint presentations and videos that support the lectures will be posted within the “**Modules**” section of Canvas.
- Note: assignments for grad students will be provided in the “**Assignments**” section of Canvas. Undergrads can view the papers and submit reviews for their own learning – these will not be counted.
- All exams and weekly quizzes will be taken on Canvas under the “**Quizzes**” section.
- Course announcements, general course information and all course communications will also be delivered within Canvas.

**UF Computing Help Desk:**
The UF Computing Help Desk is available by phone or email at 352-392-HELP (4357) and helpdesk@ufl.edu. The hours of operation are Monday-Thursday: 7:30 am to 10:00 pm; Friday: 7:30 am to 5:00 pm; and weekends 12:00 pm to 6:00 pm.

**Texts:**

No textbook is required for this course, but the following are some excellent references:


Undergrad Assignments and Grades:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Points each</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 exams</td>
<td>20</td>
<td>60</td>
</tr>
<tr>
<td>1 final exam</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>10 quizzes</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td><strong>Total Points</strong></td>
<td><strong>100</strong></td>
<td></td>
</tr>
</tbody>
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- **Ten Quizzes**: Cover 1-2 weeks of material; can be comprehensive (2 points each). All multiple choice and TF questions.
- **Three exams**: Each covers one quarter of lectures; not comprehensive (20 points each). Questions include MC/TF, short answer, and essay format
- **Final exam**: Comprehensive examination = 20 points. All multiple choice and T/F questions.

Final course grades will be on a percentage basis of total points:
- A = 93-100 pts
- A- = 90-92.9
- B+ = 87-89.9
- B = 83-86.9
- B- = 80-82.9
- C+ = 77-79.9
- C = 73-76.9
- C- = 70-72.9
- D+ = 67-69.9
- D = 63-66.9
- D- = 60-62.9
- E = <60
- I = Incomplete

Grade point equivalencies for grades are found at: https://catalog.ufl.edu/ugrad/current/Pages/home.aspx

Classroom Etiquette and Demeanor:
- N/A

General UF Information

Absences and Make-up Work:
- No make-ups will be permitted unless there is an excused absence for the assignments (Dr. notes, proof of jury duty etc.) Unexcused, missed quizzes, exams, and paper reviews will result in a 0 grade for the assignment

Requirements for make-up exams, assignments and other work are consistent with university policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

Academic Honesty, Software Use, Campus Helping Resources, Services for Students with Disabilities:

Academic Honesty
- As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the
following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

Plagiarism of any kind on exams or paper reviews will result in an automatic zero for the assignment.

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g., assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/

Software Use
All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Course Evaluation:
Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.”

COVID Guidelines: For In-person Classes only
We will have face-to-face instructional sessions to accomplish the student learning objectives of this course. In response to COVID-19, the following policies and requirements are in place to maintain your learning environment and to enhance the safety of our in-classroom interactions.

• You are required to wear approved face coverings at all times during class and within buildings. Following and enforcing these policies and requirements are all of our responsibility. Failure to do so will lead to a report to the Office of Student Conduct and Conflict Resolution.
• This course has been assigned a physical classroom with enough capacity to maintain physical distancing (6 feet between individuals) requirements. Please utilize designated seats and maintain appropriate spacing between students. Please do not move desks or stations.
• Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at the end of the class.
• Follow your instructor’s guidance on how to enter and exit the classroom. Practice physical distancing to the extent possible when entering and exiting the classroom.
• If you are experiencing COVID-19 symptoms (Click here for guidance from the CDC on symptoms of coronavirus), please use the UF Health screening system and follow the instructions on whether you are able to attend class. Click here for UF Health
guidance on what to do if you have been exposed to or are experiencing Covid-19 symptoms.

- Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work. Find more information in the university attendance policies.

Campus Helping Resources
Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university’s counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, http://www.counseling.ufl.edu/cwc/
  Counseling Services
  Groups and Workshops
  Outreach and Consultation
  Self-Help Library
  Training Programs
  Community Provider Database

- Career Connections Center, First Floor JWRU, 392-1601, http://www.career.ufl.edu/

Resources for Students with Disabilities:
The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. 0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/

Student Complaints on Distance Learning:
Each online distance learning program has a process for, and will make every attempt to resolve, student complaints within its academic and administrative departments at the program level. See http://distance.ufl.edu/student-complaints for more details.