

**Plant 105 – Food, Society, and Environment
Syllabus**

INTRODUCTION TO COURSE AND INSTRUCTOR

Spring 2021	Jordan College of Agriculture/Department of Plant Science California State University, Fresno
Course Name: Plant 105. Food, Society, and Environment	Instructor Name: Mrs. Maria Estrada
Units: 3 units, 3 lecture hours	Office Location: Industrial Technology (IT) Building, Room 250 – Virtual Consultations Only
<p>Time: Plant 105 class meets synchronously three times a week, <u>TTh from 5:00 - 6:15 pm.</u></p> <p><i>“Students are expected to attend classes regularly. Quizzes and seat works will be given regularly during Zoom lecture meetings.”</i></p>	<p>E-Mail: mariae@csufresno.edu</p> <p><i>When sending an email message, you must type your name in the 'subject' line along with the course number (Plant 105).</i></p> <p><i>I try my best to reply as soon as possible but if you do not receive a reply from me after a day, please send me a follow up email.</i></p> <p><i>“You are expected to regularly access your Fresno State email account as this is the account used for official university correspondence and Canvas communications.”</i></p>
<p>Location</p> <p>All our class meetings will be held online through synchronous Zoom meetings. Please make sure to set up your Zoom account using your enrolled name.</p> <p>Access your Zoom account using this link: fresnostate.zoom.us</p>	<p>Telephone</p>
<p>Website</p> <p>To access the course login to <u>Canvas</u> (https://fresnostate.instructure.com) using your Fresno State username and password. For help with Canvas, contact the Academic Technology Resource Center at 278-7373 or send an email to canvas@mail.fresnostate.edu</p>	<p>Office Hours</p> <p>Online office hours (Wednesdays – 10 to 11:30 am) through Zoom meetings or break out rooms.</p> <p><i>“Office Hours by Appointment is highly encouraged if you cannot attend my scheduled office hours: Please send me an email to arrange for consultation.”</i></p>

Health Screening: Students who come to campus for face-to-face classes will be required to complete a daily health screening which will include temperature checks. If you have experienced COVID-19 symptoms and/or have tested positive within the past 10 days; or if you have had close contact (less than 6 feet for longer than 15 minutes while unmasked) with a suspected or confirmed COVID-19 patient within the past 14 days; you are not allowed to come to campus. Please complete the campus [online reporting form](#). A campus official will reply to provide guidance and information.

Safety Measures: Consistent with the Governor's order and updated state public-health guidelines, face masks or cloth face coverings are required to be worn in public spaces on-campus and during in-person classes to reduce possible exposure to COVID-19 and prevent the spread of the virus. Physical distancing must be practiced by maintaining 6 feet of distance between individuals. Good hygiene of hand washing for a minimum of 20 seconds or using hand sanitizer is required. Please avoid touching your face with unclean hands. Disposable face masks will be provided to anyone who arrives to campus without one.

Please see university website for the most updated information:
www.fresnostate.edu/coronavirus

As part of your participation in virtual/online instruction, please remember that the same student conduct rules that are used for in-person classroom instruction also apply for virtual/online classrooms. Students are prohibited from any unauthorized recording, dissemination, or publication of any academic presentation, including any online classroom instruction, for any commercial purpose. In addition, students may not record or use virtual/online instruction in any manner that would violate copyright law. Students are to use all online/virtual instruction exclusively for the educational purpose of the online class in which the instruction is being provided. Students may not re-record any online recordings or post any online recordings on any other format (e.g., electronic, video, social media, audio recording, web page, internet, hard paper copy, etc.) for any purpose without the explicit written permission of the faculty member providing the instruction. Exceptions for disability-related accommodations will be addressed by Student Disability Services working in conjunction with the student and faculty member.

If there are questions or concerns that you have about this course that you and I are not able to resolve, please feel free to contact the Chair of the department to discuss the matter.

(Dr. John Bushoven, Plant Science Department, jbushoven@csufresno.edu, 559-278-2861)

Course description: “Linkages among food production systems, human social behaviors, and environmental quality. Basic principles of environmental and agricultural sciences as applied to interrelationships among social value systems, agricultural activities, and environmental resources.” It is usually expected that students will spend approximately 2 hours of study time outside of class for every hour in class. Since this is a 3-unit class, you should expect to study an average of 3-6 hours outside of class each week.

General Education Information: The integration component of General Education Area IB provides instruction at the upper-division level that integrates material from the lower-division Breadth Area B.

Prerequisites for the course: GE. Foundation (A1, A2, A3, and B4) and GE Breadth areas B1 and B2

REQUIRED COURSE MATERIALS

Required Materials: Computer, Laptop or Chromebook, Canvas, and strong internet connection.

Reference Book: No text required. All required readings will be available as links to internet articles or as pdf files in Canvas. All reading assignments will reflect current information provided by the instructor to enrich the course and strengthen student outcomes.

Additional required readings will be posted in Canvas in pdf format.

ZOOM for the delivery of instruction: This course requires the use of Zoom, which is a video and web conferencing program that can be used for any type of online meeting. Zoom will be utilized in all synchronous (live) lecture discussions and virtual office hours. Students are required to set up their Fresno State Zoom account as soon as possible. Set up your profile using your enrolled name and uploading your photo (optional) for proper identification. Strong internet connectivity is required to avoid disconnection while the lecture is in session or while you are taking an exam.

For additional details and guidelines on using Zoom, review the Zoom at Fresno State Start Guide. You can access your Zoom account using this link: fresnostate.zoom.us

COURSE SPECIFICS

This course is organized by weekly modules. Lecture materials including PowerPoint presentations, journal articles and videos required for learning were uploaded in each module. The entire assignments, quizzes*, seat work*, written report and exams* are posted on Canvas. Assignments**, quizzes, seat work, and written report** should be submitted in their respective **Submission Folder**. Accepted file types are docx, pdf, xlsx, and jpeg. Check your course calendar regularly for the due dates and schedules to avoid late submissions.

** When taking online seat work exercises, quizzes, and exams, make sure to click the submit quiz button after you are done answering the last question. Failure to click the submit quiz button may result to getting zero on your test. It is not recommended to access and take tests/quizzes through the Canvas app or on a mobile device.*

*** When submitting uploaded files, make sure to double check that the process is completed.*

Course goals:

This is an upper division course in Plant Science. Students will gain knowledge of plants used as food, basic principles of agriculture, and environmental science.

Class will be organized around two major questions:

1. Can agricultural production and processing systems provide safe, healthy food?
2. Can our agricultural production systems protect natural resources and environmental quality?

Student Learning Outcomes:

Upon successful completion of this course student will be able to:

1. Assess the relevance and importance of Science and Technology/including Scientific Methodology.
2. Explain in general the relationships among culture, economics, politics, science and agricultural development. (i.e. food security, food safety).
3. Support the concepts of Sustainable Agriculture (i.e. environmental issues Biodiversity, Integrated Pest Management) as it relates to food production worldwide.
4. Apply a humanistic perspective to values, experiences, and meanings in their own lives of food from farm to the table.

*All student learning outcomes are measured by writing assignments.

GE Area Learning Outcomes (GE Area B1)

GE Area B1 Outcome #1: Describe the inextricable connections among the physical Universe, the life forms that inhabit it, and the Mathematical models used to describe it.

GE Area B1 outcome # 2: From the perspective of a particular scientific discipline, explain the ways in which science shapes our lives.

GE Area B1 outcome #3: From the perspective of a particular discipline, assess scientific issues including the value systems and ethics associated with them.

GE Program e-Portfolio Requirement: (GE Area B1)

***GE Area B3 Reflection Paper – Critical Review Paper 2: Area B1 Student Learning Outcome 2 & 4.**

***Reminder:** *Students are required to submit a reflection paper using the critical review 2 assignment to their GE Program Portfolio on Canvas prior to the end of the semester!!* Please note this WASC GE portfolio requirement is for all freshman and transfer students admitted to Fresno State in Fall 2018 and later. Students admitted in earlier terms are exempt.

COURSE REQUIREMENTS/ASSIGNMENTS:

Quizzes, Assignments and Exams:

READING ASSIGNMENTS: They will be posted electronically on Canvas throughout the semester. Students are responsible for keeping up with the readings as they are assigned. Many lectures will be presented using PowerPoint. PDF versions of these will be posted on Canvas

and will include figures, tables, and some photographs, but may not be the complete version presented in class. Students will also be accountable for material presented on videos or by guest lecturers.

EXAM: There will be 3 lecture exams, including the **comprehensive final exam**. Each exam is worth 100 points. The exams will be a mixed of multiple-choice questions and short answer essay questions.

QUIZZES: A ten-minute quiz in the lecture will be given at any time. These quizzes may be unannounced or announced in-class or class participation quiz. It is important that you attend the class regularly. If you were absent from the class, it is your responsibility to check on announcements made while you were away. The content and format of the quizzes will be discussed in class. Each quiz is worth 10 - 20 points.

Class Participation Quiz: A five-minute group activity may be given at any time. Class participation includes all the activities done in the classroom. Seat work, post lecture study questions, etc. This can be done in group effort and with the aid of reference materials and lecture notes. Student must be present in the Zoom meeting to get full credit.

Important notes regarding exams, quizzes, and seat works:

- *It is not recommended to access and take tests/quizzes through the Canvas app or on a mobile device.*
- *For the complete Assignments and Examinations Schedule please refer to our tentative course calendar!*

ASSIGNMENTS:

Critical Review Assignments:

You will write two different critical review papers (Minimum of 1000 words each). For the first critical review paper you will select one of the major topics from a list, which will be posted by the instructor on Canvas. The main goal of this assignment is for you to examine an argument, evaluate all the evidence, and reach conclusion that you can defend. You are expected to describe the author's position and supporting evidence, evaluate how well the authors' evidence supports their position, present the findings of your research that either refutes or supports the author, and then discuss whether you agree or disagree with the author. The first critical review assignment is divided into three parts.

Part A (worth 15 points): From your electronic literature search through the Madden Library database, you will identify one newspaper article and three primary literature articles related to the major topic. You will print out the newspaper article and attach it to the hard copy version of your paper. For the primary journal articles, you will provide reference citations in your paper using the method outlined in class (see also "Guide for Citing Resources" in Canvas). Next, you will identify and summarize the newspaper topic as presented by the author, identify, and assess the key assumptions, and identify and assess the quality of supporting evidence. The instructor will critique your paper and make recommendations.

Part B (worth 25 points): In response to the feedback from the instructor you will provide and assess the quality of evidence that you obtained from sources in addition to the newspaper article

author. In addition, you will assess the strength of the connections between the evidence and conclusions presented by the author and develop and defend your own independent conclusion based on all the evidence. The instructor will provide feedback on how well the student was able to achieve the following:

- Identify and assess the quality of supporting evidence.
- Provide evidence obtained from various literature sources; and,
- Assess the strength of connections between the evidence and conclusions.

Part C* (worth 60 points): Based on all feedback received from the instructor, the student will then compile a “clean” critical review paper (between 1,000- 1,100 words) in which:

- An independent conclusion was developed and defended.
- Appropriate citations were used and referenced at the end of the review.
- Grammar and writing were appropriate for an upper division academic paper.
- Spelling and punctuation did not interfere with comprehension.
- Length and format were in accordance with the guidelines provided by the instructor.

Part C final report will be due on **March 25, 2021.*

For the second critical review paper, (between 1000 -1100 words) you will already have practiced writing a critical review and therefore the whole paper will be due on **April 27, 2021.*** Topics for the second critical review will be chosen from the list posted on Canvas by the instructor. The topic **MUST BE DIFFERENT** from that discussed in the first critical review.

Important guidelines for Critical Review Assignments:

Research. You will be expected to research the topic by conducting a sound review of the primary literature. If a newspaper article refers to a recently published scientific study, then go find the original publication of the study. Be very careful about on-line sources. You are responsible for verifying the integrity and validity of any on-line resources. You will be required to use sound solid scientific and reputable evidence in your papers.

Technical details. The text of your critical review must be between 1000-1100 words (approximately four (4) pages). You must cite your sources in the text of the paper (no footnotes) and include a list of references on the last page of the paper (see also Guide for Citing Resources in Canvas). The bibliography does not count toward the 1,000 words minimum. Completed papers will be graded based on the rubric detailed in table 1*.

Submission: Electronic copy of your paper is due by the end of the day on the dates specified in the attached schedule. All Critical Review assignments will be created using TURN IT IN and will be posted on Canvas. All electronic submissions should be done through the created assignments in turn it in (posted on Canvas). The submitted report through TURN IT IN will be your final report for grading. Plagiarism Detection tool, “Turnitin”, will be used to assess if a submitted report is plagiarized. **Your crop report should not have more than 20% similarity report. Similarity report greater than 20% is considered unacceptable work therefore will result to a grade of “zero”.** Make sure to check your similarity report before submitting your paper.

“Plagiarism Detection: The campus subscribes to Turnitin, a plagiarism prevention service, through Canvas. You will need to submit written assignments to Turnitin. Student work will be

used for plagiarism detection and for no other purpose. Turnitin Originality Reports WILL be available for your viewing.”

“Late reports or assignments: Late reports or assignments will have 5% deducted from their score each day late for the first 7 days. Late assignments will not be accepted after graded assignments have been handed back to the class.”

Make Up Policy:

Missed exam: You may make up a lecture exam only if you are unable to take the scheduled exam due to extenuating circumstances (documentation will be required). Please make sure to notify me of your absence within 24 hours through e-mail (if possible, include a copy of your documentation).

Missed quiz: If you missed a quiz because you are either late, left the class early or absent, it cannot be made up. However, a missed quiz can be made up if your absence is due to extenuating circumstances or due to school sanction activities. Please make sure to notify me of your absence within 24 hours through e-mail.

Late reports or assignments: Late reports or assignments will have 5% deducted from their score each day late for the first 7 days. Late assignments will not be accepted after graded assignments have been handed back to the class.

Grading:

Points in the Class	Points
Midterm (2 x 100 pts each)	200
CR Paper #1 (100 pts) as follows:	
(Part A) Literature search and Title Selection	15
(Part B) Summary of Articles and References	25
(Part C) Revisions-Final version	60
2nd Critical Review-Paper	100
Miscellaneous Assignments	100
Quizzes	50
Presentation	50
Final Exam (Optional)	100
Total	<hr/> 700 points

At the end of the semester, all the points that you accumulated in the class will be combined to determine your final grade. There is **no ‘negotiating’ your final grade**. You should check the scores on all your graded materials in CANVAS throughout the semester to ensure that they are correct. If you believe that a computational error has occurred, you need to bring it to my attention as soon as possible.

Grading Scale, Points, and Final Course Grade:

The following grading scale is used for all graded materials and your final course grade:

100 – 89.45%	-	A
89.44 – 79.45%	-	B
79.44 – 69.45%	-	C
69.44 – 59.45%	-	D
59.44% & below	-	F

COURSE POLICIES & SAFETY ISSUES

1. Academic Dishonesty - Academic dishonesty will not be tolerated in this class. Students who will be caught cheating on lecture exam or quiz will receive a score of zero (0) on the particular exam or quiz. The incident will also be reported to the Dean of Students.

Cell phones, earbuds, laptops, sunglasses, and hats are not allowed during the lecture exams or quizzes.

****Cheating and Plagiarism (An Excerpt from Fresno State University policy):** Cheating is the actual or attempted practice of fraudulent or deceptive acts for the purpose of improving one's grade or obtaining course credit; such acts also include assisting another student to do so.

Typically, such acts occur in relation to examinations. However, it is the intent of this definition that the term 'cheating' not be limited to examination situations only, but that it includes any and all actions by a student that are intended to gain an unearned academic advantage by fraudulent or deceptive means. Plagiarism is a specific form of cheating which consists of the misuse of the published and/or unpublished works of others by misrepresenting the material (i.e., their intellectual property) so used as one's own work." Penalties for cheating and plagiarism range from a 0 or F on an assignment, through an F for the course, to expulsion from the university. For more information on the University's policy regarding cheating and plagiarism, refer to the Class Schedule (Legal Notices on Cheating and Plagiarism) or the University Catalog (Policies and Regulations).

2. Students with Disabilities: Upon identifying themselves to the instructor and the university, students with disabilities will receive reasonable accommodation for learning and evaluation. For more information, contact Services to Students with Disabilities in the Henry Madden Library, Room 1202 (278-2811).

If you have a verified need for an academic accommodation or materials in alternate media (i.e.: Braille, large print, electronic text, etc.) please let me know as soon as possible. Students who have verified need will receive reasonable accommodation for learning and evaluation.

3. Disruptive Classroom Behavior (An Excerpt from Fresno State University policy): The classroom is a special environment in which students and faculty come together to promote learning and growth. It is essential to this learning environment that respect for the rights of others seeking to learn, respect for the professionalism of the instructor, and the general goals of academic freedom are maintained. ... Differences of viewpoint or concerns should be expressed in terms which are supportive of the learning process, creating an environment in which students and faculty may learn to reason with clarity and compassion, to share of themselves without losing their identities, and to develop and understanding of the community in which they live . . . Student conduct which disrupts the learning process shall not be tolerated and may lead to disciplinary action and/or removal from class.

4. Use of cellular phones during class hours is highly discouraged. Cellphones can cause class interruption and disturbance to teaching and learning process. Turn your phone to silent mode and keep it in your bag or in your pocket to avoid distracting other students.

5. Written projects, assignments or take-home quiz that are submitted late will not receive credit after graded assignments have been handed back to the class.

6. Delivery of instruction: This course requires the use of Zoom, which is a video and web conferencing program that can be used for any type of online meeting. Zoom functionality includes synchronous (live) or asynchronous (pre-recorded) lectures, online class meetings, virtual office hours, student presentations, etc. For additional details and guidelines on using Zoom, review the Zoom at Fresno State Start Guide. You can access your Zoom account using this link: fresnostate.zoom.us

7. Miscellaneous Information:

- a) If you are having difficulty in understanding the material or have special circumstances that may impact your success in class, please feel free to discuss this with me. You are always welcome to come and talk to me during my office hours and after class, or at an arranged time.
- b) Please organize your time so that you can devote enough hours for study and not feel 'pressured' before an exam.
- c) The score on your exam stands as corrected.
- d) Form study groups, re-write your notes, solve the problems given on the study questions and review the lectures from the beginning. This course is a marathon – not a race. You will get to the 'finish line' if you are consistent and conscientious in your study habits.
- e) Please learn the material by asking 'why' rather than simply memorizing terms. Critical and analytical thinking is an important component of this class. Being able to analyze, reason, recognize problems, solve problems, evaluate situations and communicate effectively will increase the probability of success in this class.
- f) Please let me know as soon as possible if you are having difficulty accessing the materials on Canvas – these include the lectures, handouts, quizzes, exams & homework.

Communication and Netiquette Expectations

"All communications will be through Canvas messages, announcements, discussions and through your official Fresno State Email Accounts. If you are absent from our synchronous Zoom meeting/class, it is your responsibility to check on announcements made while you were away."

With freedom to voice your opinion and personal thoughts on the web comes responsibility. Keep the following guidelines in mind:

1. Identify yourself by your real name. Be mindful of your personal safety, and avoid including personal information, such as phone numbers or addresses, in discussion forums. All online communications should be transmitted with the intent to inform,

- inspire, etc. - not to offend or breach personal privacy. Never use private information about other individuals and be sensitive to the information you share about yourself.
2. Write in the first person (this is your opinion).
 3. Use humor, joking, or sarcasm with caution. We often rely on non-verbal cues such as facial expressions to communicate joking or sarcasm; but these cues are not always clear in an online environment. These cues can be simulated with emoticons to reduce misunderstandings.
 4. What you write is public—respect your audience and be mindful of proper netiquette. Netiquette, also known as 'net etiquette,' includes using language free of profanity, proper tone and mechanics (including full sentences), as well as courtesy and respect for others' opinions. Instructors may interpret breaches of netiquette as "disruptive behavior."
 5. Be Professional, Clear and Respectful. Clear and effective writing translates to clear and effective communication. Writing the way you would speak is a good rule of thumb, use a positive tone and adhere to the same rules you would follow in face-to-face communications. As well, use proper grammar, spelling and formatting - checking all communications before sending. Check messages and respond in a prompt manner. Your professional image is an important part of credibility and all of your communications will factor into the big picture.
 6. Read and Formulate Communications Carefully. Take the time to think about the information contained in all of your online communications. This will allow you to thoughtfully consider all points, reduces confusion and prepares you for a valid response. You can in return, research your facts and provide citations for information stated within your communications. This promotes a robust academic environment and adds credibility to any course. Re-read all communications before sending to avoid emotional and or "all capital letter" statements and keep communications meaningful and to the point.
 7. Be Tolerant and Cooperative. Keep in mind that every student is participating to learn and anyone can make a simple mistake in research, knowledge or communication. Address the idea/concept, not the person. Keep an open mind and focus on the task at hand - learning. When adverse conditions arise and communications get strained - try to help rather than hinder. True cooperation means working together to the same end - everyone wants to be successful in any given course.
 8. Remember, This Course is Online. Your instructor and fellow students may be located around the world or have very different schedules than you do. You may not always receive an immediate response. Make sure you plan for this and don't put things off until the last moment.
 9. Use Proper Headings and Subject Lines. Emails and Discussion Forum topics should have subject lines that reflect the content of your message. "My Week 1 Reflections" is better than "submission" and "Week 3 Reading is Missing" is better than "Help!" Provide Context for Your Responses. If you are sending a reply to a message or a posting be sure you summarize the original at the top of the message or include just enough text of the original to give a context. This will make sure readers understand when they start to read your response. Giving context helps everyone.
 10. Provide Enough Detail in Your Messages. When asking for help, either from your instructor or from technical support, be sure to provide as much information as possible in order to help resolve the issue. Make sure to include the course name and activity name, what you were attempting to do, the full text of error messages and your browser/version information (if a technical issue), a screenshot displaying the problem, and any other relevant information. It may take a little more time up-front to compose your question, but it can help to eliminate some of the back-and-forth communication.

Tentative Course Schedule Spring 2021

The schedule of lectures for this course are subject to change. Also, based on students' interest and class participation, critical discussion and time allocated for certain topics may be extended at the expense of time spent on other topics.

If you are absent from class, it is your responsibility to check on announcements made and obtain the material presented while you were absent.

Attendance. The easiest way to obtain and learn the material presented in class and to practice our critical thinking skills is to attend class. However, you are an adult, and you are paying tuition to take this class. The choice whether to attend or not is yours to make. The consequences of your choices are yours to bear. If you are absent, it is your responsibility to obtain and learn the material you missed.

	Date	Topic	Reading Assignment
1	Jan 21	Survey/Course Introduction Population Dynamics & Food Consumption Trends	Assignment 1 (world hunger) and Assignment 2 (farmers market) posted
2	Jan 26	Population Dynamics & Food Consumption Trends	Topics for critical review posted: CR 1A posted
3	Jan 28	Population growth & Sustainability	Assign 1 (world hunger) Due
4	Feb 2	Library Literature searches Guest Lecturer – Ms. Britt Foster	Please bring your laptop or any electronic device
5	Feb 4	Critical Review/Thinking/Writing	
6	Feb 9	Scientific Method	CR 1B posted Assignment 2 (Farmers Market) Due
7	Feb 11	World in the Balance Video	CR 1A Due
8	Feb 16	WIB discussion	WIB Quiz posted and due
	Feb 18	Exam 1- Review	
9	Feb 23	Midterm Exam 1	
10	Feb 25	Food Safety/Food Pyramid/Food plate	
11	Mar 2	Food sources, choices/supply, Food processing	CR 1B Due; CR 1C posted; Assignment 3 (Food INC) posted
12	Mar 4	Food INC – video showing	
13	Mar 9	Plants as Source of Food: Major crops	
14	Mar 11	Plants as Source of Food: Minor Crops	Assignment 3 (Food INC) Due
15	Mar 16	Vegetable Production in California	
16	Mar 18	Animals as source of food	
17	Mar 23	Types of Agriculture 1	
18	Mar 25	Types of Agriculture 2	<u>CR 1C - Final Report Due!</u>
	Mar 29 – Apr 2	Spring Break	No classes

19	Apr 6	Types of Agriculture 3	
20	Apr 8	Agro Ecology; Pests and Integrated Pest Management (IPM); Pesticides	
21	Apr 13	Review	
22	Apr 15	Midterm Exam 2	
23	Apr 20	Energy Flows and Nutrient Cycles	
24	Apr 22	Risks and benefits assessment of using GMO	
25	Apr 27	Risks and benefits assessment of using GMO	<i>CR 2 Final Report Due!</i>
26	April 29	Water Use/Irrigation	Student Presentations
27	May 4	Fertilizer/Soils	Student Presentations
28	May 6-7	Faculty Consultation days	
29	May 11	Final Exam: 5:45 - 7:45 pm	
Finals week			
Final Exam Preparation & Faculty Consultation Days:			Days Thursday and Friday
			Dates May 6-7, 2021
<i>Final Exam – Plant 105</i>			<i>5:45-7:45 pm</i> <i>May 11</i>

THIS SYLLABUS AND SCHEDULE ARE SUBJECT TO CHANGE IN THE EVENT OF EXTENUATING CIRCUMSTANCES.

Plant Science Department Policies

Department Mission Statement

To educate students at the baccalaureate and master's level to become leaders of the agricultural industry of the San Joaquin Valley, California, and the world. The Department's goal is to provide students with an education in modern, scientifically based, economically sound, and environmentally wise agriculture.

Student Expectations.....Why? Because We Care!

1) We expect students to be active, consistent, and respectful learners.

Active:

- MAKE NOTES....writing the material down initiates the learning/retention process. Even though you may not be able to take extensive notes during the lectures, you should compile summary notes during your after class reviews.
- Ask questions....the only bad question is the one that is never asked
- Review....spend time outside of the classroom reviewing notes and assigned readings
- If you miss a class, it is YOUR RESPONSIBILITY to check on any new assignments and the material covered in the course.

Consistent:

- ATTEND CLASS....regular attendance in essential for comprehending the material
- Complete assignments by the due date
- Review material and readings regularly

Respectful:

- SILENT....cell phones and all other electronic devices

- No back row chatter....classroom participation is encouraged, but private conversations between students will not be tolerated
- Be on time.... if you must leave class early, notify the instructor ahead of time and sit near the exit

2) We expect students to conduct themselves honorably and with integrity.

Academic honesty

- the university's policy on plagiarism and cheating will be strictly enforced

Communicate

- notify the instructor in advance when you know you will be missing a class

Plant Science instructors will maintain a rigorous academic standard. As such, the student must invest their time and effort into the learning process in order to succeed in our courses. It is the goal of every Plant Science instructor to create an engaging learning environment. However, to ultimately achieve this goal we need you, the student, to be an active part of the process.

University Policies

Students with Disabilities: Upon identifying themselves to the instructor and the university, students with disabilities will receive reasonable accommodation for learning and evaluation. For more information, contact Services to Students with Disabilities in Madden Library 1049 (278-2811).

Cheating and Plagiarism: "Cheating is the actual or attempted practice of fraudulent or deceptive acts for the purpose of improving one's grade or obtaining course credit; such acts also include assisting another student to do so. Typically, such acts occur in relation to examinations. However, it is the intent of this definition that the term 'cheating' not be limited to examination situations only, but that it include any and all actions by a student that are intended to gain an unearned academic advantage by fraudulent or deceptive means. Plagiarism is a specific form of cheating which consists of the misuse of the published and/or unpublished works of others by misrepresenting the material (i.e., their intellectual property) so used as one's own work." Penalties for cheating and plagiarism range from a 0 or F on a particular assignment, through an F for the course, to expulsion from the university. For more information on the University's policy regarding cheating and plagiarism, refer to the Class Schedule(Legal Notices on Cheating and Plagiarism) or the University Catalog (Policies and Regulations)

Computers: "At California State University, Fresno, computers and communications links to remote resources are recognized as being integral to the education and research experience. Every student is required to have his/her own computer or have other personal access to a workstation (including a modem and a printer) with all the recommended software. The minimum and recommended standards for the workstations and software, which may vary by academic major, are updated periodically and are available from Information Technology Services (<http://www.csufresno.edu/ITS/>) or the University Bookstore. In the curriculum and class assignments, students are presumed to have 24-hour access to a computer workstation and the necessary communication links to the University's information resources."

Disruptive Classroom Behavior: "The classroom is a special environment in which students and faculty come together to promote learning and growth. It is essential to this learning environment that respect for the rights of others seeking to learn, respect for the professionalism

of the instructor, and the general goals of academic freedom are maintained. Differences of viewpoint or concerns should be expressed in terms which are supportive of the learning process, creating an environment in which students and faculty may learn to reason with clarity and compassion, to share of themselves without losing their identities, and to develop and understanding of the community in which they live. Student conduct which disrupts the learning process shall not be tolerated and may lead to disciplinary action and/or removal from class."

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Honor Code: "Members of the CSU Fresno academic community adhere to principles of academic integrity and mutual respect while engaged in university work and related activities." You should:

- a) understand or seek clarification about expectations for academic integrity in this course (including no cheating, plagiarism and inappropriate collaboration)
- b) neither give nor receive unauthorized aid on examinations or other course work that is used by the instructor as the basis of grading.
- c) take responsibility to monitor academic dishonesty in any form and to report it to the instructor or other appropriate official for action.

I may require students to sign a statement at the end of all exams and assignments that "I have done my own work and have neither given nor received unauthorized assistance on this work."

The campus subscribes to websites for plagiarism prevention service, and your written assignments may be submitted to these sites. Your work will be used by these sites for plagiarism detection and for no other purpose. Electronic assignments will be randomly chosen and submitted to these sites for plagiarism checking.

ATTACHMENT FILE #1.

***Table 1. Rubric for grading critical REVIEW papers**

A) Identifies and summarizes the problem as presented by the text author.

0-----2-----2.75-----3.5-----4.25-----5
 lacking weak poor acceptable good excellent

weak	excellent
Does not identify or summarize the problem; is confused or identifies a different or inappropriate problem; represents the problem inaccurately	Identifies the problem and any subsidiary, embedded, or implicit aspects of the problem; identifies them clearly and addresses their relationship to each other; identifies not only the basics of the problem but also recognizes the nuances of the issue

B) Identifies and assesses the key assumptions of the text author’s presentation of the problem

0-----2-----2.75-----3.5-----4.25-----5
 lacking weak poor acceptable good excellent

weak	excellent
Does not point out the text author’s key assumptions and the scientific and ethical issues that underlie the problem or does so superficially	Identifies and addresses the validity of the key assumptions and scientific and ethical dimensions that underlie the problem; detects sources of bias even if subtle

C) Identifies and assesses the quality of supporting evidence presented by the text author.

0-----2-----2.75-----3.5-----4.25-----5
 lacking weak poor acceptable good excellent

weak	excellent
Merely repeats information provided by text author, taking it as truth or denies evidence without adequate justification; confuses associations and correlations with cause and effect; does not distinguish between fact, opinion, and value judgments	Examines the evidence and the sources of the evidence; questions its accuracy, precision, relevance, and completeness; observes cause and effect and addresses existing or potential consequences; clearly distinguishing between fact opinion and values judgments

D) Provides evidence obtained from sources in addition to the text author.

0-----2-----2.75-----3.5-----4.25-----5
 lacking weak poor acceptable good excellent

weak	excellent
Does not use sources in addition to textbook author, uses evidence not	Uses evidence in addition to that provided by textbook author, evidence is relevant to topic,

related to topic, uses evidence from unreliable or biased sources without critical comment, presents the evidence inaccurately, presents evidence from only one side (cherry-picks)	sources are reliable experts in the field, presents evidence from multiple sides of the issue
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E) Assesses the quality of evidence obtained from sources in addition to the text author.

0-----2-----2.75-----3.5-----4.25-----5
 lacking weak poor acceptable good excellent

weak	excellent
Merely repeats information taking it as truth or denies evidence without adequate justification; confuses associations and correlations with cause and effect; does not distinguish between fact, opinion, and value judgments	Examines the evidence and the sources of the evidence; questions its accuracy, precision, relevance, and completeness; observes cause and effect and addresses existing or potential consequences; clearly distinguishing between fact opinion and values judgments

F) Assesses the strength of connections between the evidence and the conclusions presented by the text author.

0-----2-----2.75-----3.5-----4.25-----5
 lacking weak poor acceptable good excellent

weak	excellent
Confuses associations and correlations with cause and effect; does not distinguish between scientific evidence, political, religious, or ethical statements	Weighs competing evidence carefully before drawing conclusions or forming judgments; observes cause and effect and addresses existing or potential consequences; clearly distinguishes between scientific evidence, political, religious or ethical statements

G) Develops and defends an independent conclusion based on all the evidence obtained.

0-----2-----2.75-----3.5-----4.25-----5
 lacking weak poor acceptable good excellent

weak	excellent
Confuses associations and correlations with cause and effect; does not distinguish between scientific evidence, political, religious or ethical statements; does not understand the role of scientific evidence in societal questions	Identifies and discusses conclusions, implications, and consequences considering context, assumptions, data, and evidence; develops and defends an informed position integrating science, technology, and social values

H) Appropriate use of reference citations and complete bibliography.

0-----2-----2.75-----3.5-----4.25-----5
 lacking weak poor acceptable good excellent

weak	excellent
No or scant use of reference citations for information presented in paper; unclear which references are direct quotations, and which are paraphrased; bibliography lacking, or information not complete enough for reader to retrieve original sources	Appropriate use of reference citations for information; reference citations in text clearly linked to specific source in bibliography; bibliography properly formatted and in sufficient detail to allow reader to retrieve original sources

I) Scientific issues reflect value systems and ethics associated with them.

0-----2-----2.75-----3.5-----4.25-----5
 lacking weak poor acceptable good excellent

weak	excellent
Fails to discuss how the scientific topic impacts on current social and ethical value systems and lacks an in-depth understanding of how the issues and ethical values are related.	Clearly demonstrates how the scientific topic impacts on current social and ethical value systems, including examples, and proposes critical thinking questions.

J) Grammar and writing appropriate for upper division academic paper including spelling, punctuation, length, and format.

0-----2-----2.75-----3.5-----4.25-----5
 lacking weak poor acceptable good excellent

weak	excellent
Paper contains numerous spelling and punctuation errors which interfere with comprehension; does not meet the assigned requirement for four pages of text plus a bibliography	Paper essentially free of spelling and punctuation errors; follows the guidelines for a minimum of four pages of text plus a bibliography