TRINE
UNIVERSITY

COURSE SYLLABUS

COURSE TITLE: PLANTS AND PEOPLE (no lab)

TERM & YEAR: Summer 2023

COURSE & SECTION NUMBER: BIO 1003

TIME & PLACE: Asynchronous, Online

NUMBER OF CREDIT HOURS: 3-0-3

INSTRUCTOR: TBD

OFFICE LOCATION/HOURS: TBD

OFFICE PHONE: TBD

EMAIL: TBD

COURSE DESCRIPTION: An introduction to the basic principles of plant biology and the interrelationship between plants and humans with an emphasis on basic plant anatomy and physiology, economic and historical importance, and the roles of plants in the biosphere. Open to non-science majors only.

PREREQUISITES: None

REQUIRED TEXT: Mauseth, Plants & People (w/Access) PAP/PSC Edition. 1st ed. 2013 Jones & Bartlett. ISBN-13: 9781449657178

REFERENCES:

OTHER MATERIALS:

LEARNING OUTCOMES: Upon completion of this course, the student should be able to:

1. Identify the basic structures of plants
2. Diagram the process of photosynthesis
3. Discus the link between agriculture and human civilizations
4. Identify economically important plants in daily life
5. Describe the impact human activities have had and will continue to have on plant communities

COURSE REQUIREMENTS:

ATTENDANCE/PARTICIPATION: Students must participate in this course on a regular basis. Students are to login at least 4 of 7 days in a week. Moodle and your instructor are able to track and document login and participation.

GRADING/EVALUATION: All assignments, quizzes/exams, Discussion Board posts, etc. need to be submitted by Sunday at 11:59pm for each given week in order to receive credit for the assignments. If there is an extenuating circumstance that will hinder your ability to complete the assignments on time, prior instructor notification and approval needs to take place via email.

	Possible Points
Chapter Quizzes (6)	120
Discussion Posts	60
Activities	100
Midterm Exam	50
Final Exam	50
TOTAL	**380**

A > 90% B+ > 87% B > 80% C+ > 75% C > 70% D+ > 67% D > 60% F – Below a 60%

OTHER POLICIES:

ACADEMIC MISCONDUCT

The University prohibits all forms of academic misconduct. Academic misconduct refers to dishonesty in examinations (cheating), presenting the ideas or the writing of someone else as one's own (plagiarism) or knowingly furnishing false information to the University by forgery, alteration, or misuse of University documents, records, or identification. Academic dishonesty includes, but is not limited to, the following examples: permitting another student to plagiarize or cheat from one's own work, submitting an academic exercise (written work, printing, design, computer program) that has been prepared totally or in part by another, acquiring improper knowledge of the contents of an exam, using unauthorized material during an exam, submitting the same paper in two different courses without knowledge and consent of professors, or submitting a forged grade change slip or computer tampering. The faculty member has the authority to grant a failing grade in cases of academic misconduct as well as referring the case to Student Life.

PLAGIARISM

You are expected to submit your own work and to identify any portion of work that has been borrowed from others in any form. An ignorant act of plagiarism on final versions and minor projects, such as attributing or citing inadequately, will be considered a failure to master an essential course skill and will result in an F for that assignment. A deliberate act of plagiarism, such as having someone else do your work, or submitting someone else's work as your own (e.g., from the Internet, fraternity file, etc., including homework and in-class exercises), will at least result in an F for that assignment and could result in an F for the course.

ELECTRONIC DEVICES:

Use of electronic devices including smart watches and cell phones is prohibited during exams or quizzes unless directly allowed by the instructor.

COURSE CALENDAR/SCHEDULE:

Week and Title	Weekly Learning Outcome Alignment	Learning Activities and Materials (LO alignment)	Assessments (LO alignment)
Week One: Introduction to plants themselves, their specific components, and the relationship between plants and people.	Identify the basic structures of plants. (LO1) Discuss the link between agriculture and human civilizations. (LO3) Describe the impact human activities have had and will continue to have on plant communities. (LO5)	Read: • Chapters 1, 2, and 3 in textbook(LO1)(LO3) (LO5)	Participate: • Discussion Board post (LO3) (LO5) • Peer responses Assignment: • Quiz over assigned reading (LO1) (LO3) (LO5) • Activity: Drawing and labeling plant parts (LO1)
Week Two: Basic plant metabolism, mineral nutrition and energy metabolism (photosynthesis and respiration).	Identify the basic structures of plants. (LO1) Diagram the process of photosynthesis. (LO2)	Read: • Chapters 4 and 5 in textbook(LO1) (LO2	Participate: • Discussion Board post (LO1) (LO2) • Peer responses Assignment: • Quiz over assigned reading (LO1) (LO2) • Watch video and write summary on photosynthesis(LO2)
Week Three: Genes and environment, and how they relate to plant development; plant reproduction.	Identify the basic structures of plants. (LO1) Discuss the link between agriculture and human civilizations. (LO3) Describe the impact human activities have had and will continue to have on plant communities. (LO5)	Read: • Chapters 6, 7, 8, and 9 in textbook(LO1) (LO3) (LO5)	Participate: • Discussion Board post (LO1) (LO5) • Peer responses Assignment: • Mid-term Exam over assigned reading (includes Chapters 1-9) (LO1)(LO2) (LO3) (LO5)
Week Four: Plant biogeography, evaluating the role of plants and people on climate change, and the agriculture biosphere connection	Discuss the link between agriculture and human civilizations. (LO3) Describe the impact human activities have had and will continue to have on plant communities. (LO5)	Read: • Chapters 10, 11, and 12 in textbook(LO3) (LO5)	Participate: • Discussion Board post(LO5) • Peer responses Assignment: • Quiz over assigned reading (LO3) (LO5) • Google Earth Biomes Activity (LO5)

Week Five: **Plants that make our lives possible and plants that make eating fun.**	Discuss the link between agriculture and human civilizations. (LO3) Identify economically important plants in daily life. (LO4)	Read: • Chapters 13 and 14 in textbook(LO3) (LO4)	Participate: • Discussion Board post (LO3) (LO4) • Peer responses Assignment: • Quiz over assigned reading(LO3) (LO4
Week Six: **Plants as sources of medicines and drugs, and plants that clothe and house us**	Identify the basic structures of plants. (LO1) Discuss the link between agriculture and human civilizations. (LO3) Identify economically important plants in daily life. (LO4) Describe the impact human activities have had and will continue to have on plant communities. (LO5)	Read: Chapters 15 and 16 in textbook(LO1)(LO3) (LO4) (LO5	Participate: • Discussion Board post (LO1) (LO2) (LO3) (LO4) (LO5) • Peer responses Assignment: • Final Exam over assigned reading (includes Chapters 1-16)(LO1) (LO2) (LO3) (LO4) (LO5)