



Wayne County Community College District

COURSE SYLLABUS

BIO 165 Botany

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00 HL/30.00 HLB

PREREQUISITES: BIO 155

COURSE DESCRIPTION:

Lecture and laboratory course emphasizing principles of plant biology, including a survey of the plant kingdom with representative life cycles and relationships between plant groups. Emphasis is placed on the development, anatomy, physiology and evolution of gymnosperms and angiosperms. (Meets six hours per week; four hours lecture and two hours laboratory)

EXPECTED COMPETENCIES:

Upon completion of this course, the student will be able to describe, identify and demonstrate an understanding of:

- The nature of plant science and life.
- The chemistry of life, including basic and organic.
- Cell composition and function, including membrane structure and function.
- Morphology and function of plant tissues.
- Morphology and function of stems, roots, leaves, flowers, fruits, and seeds.
- Bioenergetics (metabolism, energy, photosynthesis, and cellular respiration).
- Continuity of life in plants (mitosis, meiosis, and plant life cycles)
- Principles of Mendelian Inheritance and molecular genetics
- Taxonomic Classification and identification of plants.
- Diversity and Importance of the plant groups.
- Importance of plants in the ecosystem.

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E