

CUYAMACA COLLEGE
COURSE OUTLINE OF RECORD

Ornamental Horticulture 266 – Science in Practice for Arboriculture

1 hour lecture, 1 unit

Catalog Description

An overview of the scientific concepts of arboriculture, especially as applied to the knowledge required of an International Society of Arboriculture Certified Arborist. Individuals who attain this certification are expected to apply current scientific knowledge and best management practices to the evaluation and care of trees.

Prerequisite

None

Course Content

An introduction to the following core arboricultural subjects:

- 1) Soil management
- 2) Identification and selection of trees
- 3) Installation and establishment of trees
- 4) Safe work practices
- 5) Tree biology
- 6) Tree pruning
- 7) Tree diagnosis and treatment
- 8) Urban forestry
- 9) Tree protection systems and practices
- 10) Tree risk management

Course Objectives

Students will be able to:

- 1) Demonstrate knowledge of the current principles and practices of Arboriculture, as defined by the International Society of Arboriculture.

Method of Evaluation

A grading system will be established by the instructor and implemented uniformly. Grades will be based on demonstrated proficiency in subject matter determined by multiple measurements for evaluation, one of which must be essay exams, skills demonstration or, where appropriate, the symbol system.

- 1) Quizzes, activities, and exams (including final exam) which measure the student's ability to demonstrate knowledge and understanding of current best management practices for the care of trees.

Special Materials Required of Student

None

Minimum Instructional Facilities

Smart classroom

Method of Instruction

Lecture and demonstration

Out-of-Class Assignments

- 1) **Reading:** lecture notes; course materials; textbook chapters; articles; books; short stories; essays; manuals; content on websites; and multi-media course-related content.
- 2) **Writing:** written assignments related to the textbook; assignment drafts; essays; outlines; summaries; presentations; content for projects, and more.
- 3) **Other:** practice exams similar to the ISA certification exam.

Texts and References

- 1) Required (representative example): Lilly, S. J. *Arborists' Certification Study Guide*. 4th edition. International Society of Arboriculture, 2022.
- 2) Supplemental: None

Student Learning Outcomes

Upon successful completion of this course, students will be able to:

- 1) Apply current best management practices for the care of trees, as defined by the International Society of Arboriculture, in an exam environment.