SAN JUAN COLLEGE
Success Matters

BIOL 2630L - GENERAL BOTANY LAB 1 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course is the laboratory course associated with the general botany lecture course. It will include an introduction to laboratory techniques dealing with plant biochemistry, plant, bacterial, and fungal cell biology, plant reproduction, plant morphology and anatomy, plant physiology, plant genetics, and plant evolution.

Prerequisites: None

Semester Offered: Fall, Spring

COMMON STUDENT LEARNING OUTCOMES

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in…

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

COURSE LEARNING OUTCOMES

Upon successful completion of the course, the student will be able to…

1. Demonstrate appropriate skill levels in the use of the tools and technologies related to their major fields of study and obtain knowledge of the underlying theory and limitations of their use.

2. Learn the proper and safe use of all laboratory equipment, such as the use and care for the compound and dissecting microscope.
3. Learn to correctly measure, dispense and handle safely reagents and stains used in laboratory.
4. Apply critical thinking skills in the analysis of data and formation of well-developed arguments.
5. Be able to sort and assess the value of information and apply a variety of analysis techniques to arrive at rational answers to complex questions.
6. Demonstrate a thorough, up-to-date knowledge of the central concepts, theories, facts, and issues of botanical science.