



BIO 230: Seminar in Scientific Literature and Research Design

Student will learn to locate, read, and interpret peer-reviewed science journal articles. They will examine the characteristics that distinguish quality research in the biological sciences, and write a review paper related to a topic of their choosing. Students will then delve further into aspects of experimental design, culminating in the production of a research proposal related to their topic of choice. Prerequisite: BIO 121. Three lecture hours per week. Instructional Support Fee applies. Gen. Ed. Competencies Met: Scientific Reasoning and Discovery.

Course Student Learning Outcomes

After completing this course students should be able to: 1. Critically evaluate a peer reviewed scientific journal article 2. Synthesize information from multiple primary sources into a clear concise review paper 3. Apply the scientific method through development of a detailed practical research proposal 4. Critique the research proposals of peers, and apply constructive criticism to their own proposal 5. Demonstrate oral communication skills through presentation of research methods and rationale

Credits: 3

Program: Biology