Miami Dade College

Course Description

BSC2943L | Bioscience Internship | 3.00 – 6.00 credits

This internship course is a capstone for students majoring in bioscience and related programs. Students will learn to apply acquired knowledge and skills to gain experience in the bioscience workplace.

Course Competencies:

Competency 1: Students will demonstrate knowledge of a bioscience workplace by:

1. Summarizing the organization's purpose and goals
2. Describing the organizational structure, including the purpose of individual departments within the bioscience workplace
3. Defining the role of the employee mentor within the organization

Competency 2: Students will demonstrate knowledge of legislative regulations in a bioscience workplace by:

1. Defining the safety regulations of the organization
2. Describing how Occupational Safety and Health Administration (OSHA) worker safety regulations are addressed within the organization
3. Describing measures employed by the organization to address governmental regulations
4. Summarizing topics related to regulatory issues that influence the organization's operation

Competency 3: Students will demonstrate knowledge of data collection and manipulation in a bioscience workplace by:

1. Describing the purpose and practice of labeling, documentation, and housekeeping within the organization
2. Illustrating procedures used to record and analyze data within the organization
3. Using tools and instruments employed for data collection and manipulation within the organization
4. Describing the computer systems and applications used to store and analyze data within the organization
5. Summarizing measures used to ensure consistency, accuracy, and validation of data collected within the organization

Competency 4: Students will demonstrate knowledge of the specific skills-sets employed in a bioscience workplace by:

1. Listing standard techniques or skill sets used within the organization
2. Showing basic protocols and applications performed while working in the organization
3. Summarizing the purpose of standardized protocols and how they relate to the organization's goals
4. Analyzing the issues of personal or environmental protection and its importance within the organization

Competency 5: Students will demonstrate knowledge of workplace professionalism by:

1. Listing traits of bioscience workplace professionals
2. Identifying skills necessary for practical work within the organization
3. Summarizing the importance of written and verbal communication skills within the organization
4. Generating a journal documenting the daily work schedule, tasks, experiments, and results
5. Writing a final technical report
6. Presenting a verbal report based on acquired knowledge

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Demonstrate knowledge of ethical thinking and its application to issues in society