

# **Geospatial Applications Worksite Experience Senior Seminar And Internship**

## **Essential Curriculum**

### **Introduction**

In the senior seminar students have the opportunity to apply the many skills they have learned at the Applications and Research Laboratory in a real world work environment. In this course, students are expected to demonstrate a high level of independence and initiative, which is expected of entry-level employees in a high tech work place. Students will be required to identify and propose solutions to authentic problems, demonstrate interpersonal skills, develop professional attitudes and behaviors and become familiar with the career opportunities related to their seminar experience. In addition to this fieldwork, students will participate in a research seminar designed to prepare students for the technical writing demands expected in college and career settings. In seminar, students will produce evidence of their research activities through oral and written presentations such as proposals, outlines, and rough drafts. It is essential that both written and oral documentation of research activities be collected throughout each semester in order to teach students how to propose, manage, and conduct a long-term research project independently.

### **Course Description**

This course is the final required coursework students take to complete some of the Career Academies. This is an independent research course, which includes an internship experience related to their technology career interests. Students are required to complete 6-12 hours experience per week at the mentor site; attend weekly seminars at the ARL, complete daily journals related to worksite placement, and complete a reflection paper based upon their interactions and duties at their site. . Students will also be required to create a portfolio of their senior seminar work along with the journals made on a weekly basis the will be factored into their final grade.

## Essential Goals and Objectives

### Senior Seminar Scope and Sequence

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|--------|--|
| UNIT 1 | INTRODUCTION TO THE SENIOR WORKSITE EXPERIENCE |
| UNIT 2 | DESIGNING A PORTFOLIO                          |
| UNIT 3 | COMPILING AND ORGANIZING A PORTFOLIO           |
| UNIT 4 | JOURNALING AND REFLECTION                      |
| UNIT 6 | FINAL PRESENTATIONS-REFLECTIONS                |
| UNIT 7 | FINAL PRESENTATIONS-PORTFOLIOS                 |

GOAL I At the completion of the senior seminar, students will demonstrate the ability to solve authentic problems related to workplace environments.

- Objectives The student will:
- Identify and explore industry related work environments of interest
  - Identify an industry related research topic
  - Demonstrate an understanding of the research process
  - Investigate future career options
  - Identify and accurately define problems related to workplace issues
  - Acquire and apply appropriate resources for research and senior project
  - Interpret technical literature and documentation
  - Apply problem solving strategies to solve problems related to workplace issues
  - Use industry specific technologies, materials and knowledge.

GOAL II At the completion of the senior seminar, students will demonstrate the ability to demonstrate interpersonal skills at the worksite.

- Objectives The student will:
- Communicate technical information in oral and written form
  - Make multimedia presentations
  - Demonstrate the ability to lead as well as work with a team.
  - Demonstrate skills in human relations.

GOAL III At the completion of the senior seminar, students will demonstrate the ability to display professional attitudes and behaviors in the workplace environment.

Objectives The student will:

- Set realistic goals
- Establish timelines
- Demonstrate self-direction
- Adhere to industry specific dress codes
- Demonstrate enthusiasm and commitment to workplace expectations
- Display personal responsibility and ethical behavior

GOAL IV At the completion of the senior seminar, students will demonstrate the ability to describe career opportunities related to their seminar experiences.

Objectives The student will:

- Complete a career self-assessment
- Discuss job prerequisites and educational requirements for success in a field related to career interest
- Identify specific workplace cultural expectations necessary for success in industry and post-secondary experiences
- Discuss the roles business management and marketing play in industry
- Develop a portfolio reflecting career related goals and experiences