

Major Field Assessment Plan  
Graduate Program in  
Integrated Science and Technology

Revd  
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The mission of Southeastern Louisiana University is to lead the educational, economic, and cultural development of Southeast Louisiana.

The mission statement of the graduate school is to promote the professional competency of persons in schools, industry, and business, and prepares individuals to pursue further graduate education.

The mission of the Master of Integrated Science and Technology (ISAT) Program is to broadly educate technological problem solvers and system integrators who can deal effectively with the wide spectrum of issues facing today's professionals in business and industry. The program emphasizes applications of chemistry, computer science, industrial technology, mathematics, and physics in a career enhancement degree.

### **Goal 1**

Students will acquire a common body of knowledge in mathematics, science, and technology appropriate to the needs of business and industry.

### **Outcomes**

1. At least 60% of the graduates surveyed in the Exit Survey will indicate they were satisfied or very satisfied that their graduate coursework developed their ability to see relationships, similarities, and distinctions among ideas.
2. At least 60% of the graduates surveyed in the Survey of Graduate Alumni will indicate they were satisfied or very satisfied that their graduate coursework developed their ability to see relationships, similarities, and distinctions among ideas.
3. At least 60% of the graduates surveyed in the Exit Survey will indicate they were satisfied or very satisfied that their graduate coursework developed their ability to effectively use mathematical thinking and mathematical reasoning skills.
4. At least 60% of the employers surveyed in the Employers Survey will indicate they were satisfied or very satisfied with the ISAT graduate's ability to effectively use mathematical thinking and mathematical reasoning skills.

### **Means of Assessment:**

Survey of Graduate Alumni  
Exit Survey  
Employers Survey

## **Goal 2**

Graduates will be able to effectively apply their knowledge of mathematics, science, and technology to the problems of business and industry.

### **Expected Outcomes**

1. At least 70% of the graduates surveyed in the Survey of Graduate Alumni will indicate they were satisfied or very satisfied their graduate coursework prepared them to apply mathematical, scientific, and technological knowledge in business and industry.
2. At least 70% of the employers surveyed in the Employer Survey will indicate they were satisfied or very satisfied with the ISAT graduate's ability to apply mathematical, scientific, and technological knowledge in business and industry.
3. At least 60% of the graduates surveyed in the Survey of Graduate Alumni will indicate they were satisfied or very satisfied their graduate coursework prepared them to collaborate with other professionals to identify problems, obtain relevant information, analyze alternatives, and implement appropriate solutions.
4. At least 70% of the employers surveyed in the Employer Survey will indicate they were satisfied or very satisfied with the ISAT graduate's ability to collaborate with other professionals to identify problems, obtain relevant information, analyze alternatives, and implement appropriate solutions.

### **Means of Assessment:**

Survey of Graduate Alumni  
Employers Survey

## **Goal 3**

Students will develop applied research skills in an interdisciplinary setting.

1. At least 75% of the graduates surveyed in the Alumni Survey will indicate they were satisfied or very satisfied that their graduate coursework improved their ability to find, analyze, organize, and present information in an effective manner.
2. At least 75% of the graduates surveyed in the Alumni Survey will indicate they were satisfied or very satisfied that their graduate coursework improved their ability to apply logic and critical thinking skills.

3. At least 75% of the graduates surveyed in the Alumni Survey will indicate they were satisfied or very satisfied that their graduate coursework prepared them to critically assess outcomes of research and incorporate findings into professional requirements.
4. At least 75% of the graduates surveyed in the Exit Survey will indicate they were satisfied or very satisfied that their graduate coursework prepared them for the completion of their thesis.

**Means of Assessment:**

Survey of Graduate Alumni  
Exit Survey

**NOTE:** Students in the ISAT program are exposed to cultural and global perspectives through knowledge of multi-cultural issues in science, mathematics and technology discussed in ISAT 600 & 601 Seminar Courses and ISAT 615 Technology in Industry and Society..