Texas A&M University **Marketable Skills**

Program:	Marine Biology
Degree:	BS
Department:	Marine Biology
Contact Name:	Dr. Jaime Alvarado-Bremer
Contact Phone:	409-740-4750

Outcome	**Investigative Skills**
Marketable Skills	• Identifying problems related to marine life • Assessing risks • Defining expected/potential results • Capturing and characterizing representative samples • Locating marine fauna • Inspecting and identifying specimens • Cataloging information • Isolate and analyze DNA, RNA, and protein • Characterize genetic variation in marine organisms

Outcome	**Research/Quantitative Skills**
Marketable Skills	• Define problems • Apply scientific approach to problem solving • Designing experiments • Utilizing laboratory equipment and instrumentation • Using computers for computation/simulation • Conducting studies • Recording observations • Interpreting results • Utilizing statistical tests to predict outcomes • Preparing statistical reports

Outcome	**Communicate effectively**
Marketable Skills	• Write research proposals • Team work • Summarize research findings • Communicate biological research findings using scientific writing • Explain complex ideas for technical and nontechnical audiences • Designing charts, graphs and other visual aides • Report results and conclusions orally • Communicate new research findings to lay audiences • Communicate findings using models, charts, and graphs

Outcome	Analytical Skills
Marketable Skills	• Examining components of problems/ideas • Reasoning logically • Catergorizing data • Presenting alternative explanations • Design, conduct and interpret scientific research • Making projections from data • Organization ideas/information • Evaluating the effects of phenomena • Applying and interpreting statistical tests

Texas A&M University **Marketable Skills**

Program:	Marine Biology-License Option
Degree:	BS
Department:	Marine Biology
Contact Name:	Dr. Jaime Alvarado-Bremer
Contact Phone:	409-740-4750

Outcome	**Investigative Skills**
Marketable Skills	• Identifying problems related to marine life • Assessing risks • Defining expected/potential results • Capturing and characterizing representative samples • Locating marine fauna • Inspecting and identifying specimens • Cataloging information • Isolate and analyze DNA, RNA, and protein • Characterize genetic variation in marine organisms

Outcome	**Research/Quantitative Skills**
Marketable Skills	• Define problems • Apply scientific approach to problem solving • Designing experiments • Utilizing laboratory equipment and instrumentation • Using computers for computation/simulation • Conducting studies • Recording observations • Interpreting results • Utilizing statistical tests to predict outcomes • Preparing statistical reports

Outcome	**Communicate effectively**
Marketable Skills	• Write research proposals • Team work • Summarize research findings • Communicate biological research findings using scientific writing • Explain complex ideas for technical and nontechnical audiences • Designing charts, graphs and other visual aides • Report results and conclusions orally • Communicate new research findings to lay audiences • Communicate findings using models, charts, and graphs

Outcome	Analytical Skills
Marketable Skills	• Examining components of problems/ideas • Reasoning logically • Catergorizing data • Presenting alternative explanations • Design, conduct and interpret scientific research • Making projections from data • Organization ideas/information • Evaluating the effects of phenomena • Applying and interpreting statistical tests