Texas A&M University   **Marketable Skills**

Program:	Meteorology
Degree:	BS
Department:	Atmospheric Sciences
Contact Name:	R. Saravanan
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Outcome	**Master the depth of knowledge required for a degree**
Marketable Skills	- Describe and report the physical processes governing atmospheric phenomena. - Prepare weather reports or maps for analysis, distribution, or use in weather broadcasts, using computer graphics. - Develop or use mathematical or computer models for weather forecasting. - Gather data from sources such as surface or upper air stations, satellites, weather bureaus, or radar for use in meteorological reports or forecasts. - Knowledge of analytical or scientific software, graphics or imaging software, and operating system software.

Outcome	**Demonstrate critical thinking**
Marketable Skills	- Interpret data, reports, maps, photographs, or charts to predict long- or short-range weather conditions, using computer models and knowledge of climate theory, physics, and mathematics. - Apply meteorological knowledge to issues such as global warming, pollution control, or ozone depletion. - Apply mathematics to model atmospheric phenomena - Use computer software to analyze atmospheric data.

Outcome	**Communicate effectively**
Marketable Skills	- Broadcast weather conditions, forecasts, or severe weather warnings to the public via radio, television, or the Internet or provide this information to the news media. - Express atmospheric sciences concepts in a clear and logical manner, orally and in writing.

Outcome	**Practice personal and social responsibility**
Marketable Skills	Identify the relative costs and benefits of potential actions to choose the most appropriate one.

Outcome	**Demonstrate social, cultural, and global competencies**
Marketable Skills	- Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction. - Being aware of others' reactions and understanding why they react as they do.

Outcome	Prepare to engage in life-long learning
Marketable Skills	• Keeping up-to-date technically and applying new knowledge to problem - solving and decision-making.

Outcome	Work collaboratively
Marketable Skills	• Consult with other offices, agencies, professionals or researchers regarding the use and interpretation of climatological information for weather related products and warnings.