

Marketable Skills for the MS in Chemistry Degree Program at UT Tyler*

Soft Skills	Hard Skills
Address challenging problems and issues through creative thinking, inquiry, innovation, analysis, evaluation, and synthesis of information including numerical data or observable facts.	Analytical Skills: Conduct an extensive literature search, summarize scientific findings, analyze data, test hypotheses, develop theories, clarify problems, identify relationships between problems and solutions, perceive patterns and structure, apply logic to problems, and evaluate results.
Respond in an ethical manner by connecting data, behavior, choices, consequences to ethical theories.	Investigative Skills: Conduct independent, objective, scientific research, review relevant scientific data, apply concepts, utilize formulas, research information, ask scientific questions, design experiments, and apply knowledge creatively.
Communicate ideas effectively through written, oral, and visual delivery modes.	Technical Skills: Process data independently, solve quantitative problems, tabulate data, use laboratory equipment, maintain precision and accuracy, utilize MSDS information properly, and follow safe laboratory practices.
	Communication Skills: Write clearly, explain complex scientific ideas for technical and non-technical audiences, organize and report data, design charts and graphs, report results and conclusions orally and in writing, and present alternate explanations

*The Department of Chemistry and Biochemistry offers career support throughout the entire degree program.