

Marketable Skills for the BS 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 a 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: 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, solve quantitative problems, tabulate data, use laboratory equipment, maintain precision and accuracy, and follow safe laboratory practices.
Advance the human condition through learned international cultural competence, knowledge of civil responsibility, and a foundational knowledge of human behavior.	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.
Work effectively in teams.	

*The Department of Chemistry and Biochemistry offers

- career support throughout the entire degree program; and
- program specific advising to supplement the advising provided by the College of Arts and Sciences advisors.