1. All graduate students will have a fundamental understanding of the core theoretical underpinnings of atmospheric sciences.

2. All graduate students will have a high level of expertise in their chosen research field within the atmospheric and related sciences, and the ability to apply theoretical and technical skills to novel and long-standing problems relevant to society.

3. All graduate students will have the ability to formulate a research problem, demonstrate the value of its solution in advancing knowledge, and develop an approach towards solving that problem.

4. All graduate students will have ethically responsible and effective communication skills, written and verbal, at a professional scientific level.

5. All graduate students will have knowledge of the frontiers in atmospheric science research.