

Mapping of Graduate Student Outcomes to Data Collection Instruments

1. **Graduate Student Exit Survey**: Question 10 provides a direct mapping to the outcomes for Master of Engineering, Master of Science, and Doctoral students.

2. **Doctoral Dissertation Rubric**:

<i>Outcomes in Row Questions in Column</i>	Ability to conduct independent research	Ability to communicate effectively	Ability to understand fundamental principles of field	Ability to publish in a peer-review venue
Quality of Presentation		X		
Overall breadth of knowledge	X			X
Quality of responses to questions		X		X
Overall quality of science	X		X	X
Contribution to discipline	X		X	X
Quality of writing		X	X	X

3. **Master of Science Thesis Rubric**:

<i>Outcomes in Row Questions in Column</i>	Ability to conduct research and/or professional practice	Ability to communicate effectively	Ability to understand fundamental principles of field
Quality of Presentation		X	
Overall breadth of knowledge	X		
Quality of responses to questions		X	
Overall quality of science	X		X
Contribution to discipline	X		X
Quality of writing		X	X