

Table 4. Assessment activities utilized to measure learning outcomes in the Mechanical Engineering PhD program.

Assessment Activities	Outcome 1	Outcome 2	Outcome 3	Outcome 4	Outcome 5
	Thorough understanding of Engineering Mathematics and fundamental core area.	Advanced knowledge of wider range of mechanical engineering related topics.	Awareness of current research topics.	Application of mathematical concepts, knowledge of core area and computational methods toward independent research.	Effective communication of ideas through written and verbal methods.
1. Satisfactory grades on assignments and exams.	X	X			
1. Approved Plan of Study.	X	X			
2. Active participation in AME 696G Seminar.			X		
3. Pass Qualifying Exam.	X				
4. Submit proposal (Written Comprehensive Exam).	X	X	X	X	X
5. Pass Oral Comprehensive Exam.	X	X	X	X	X
6. AME 696G Seminar Presentation.	X	X	X	X	X
8. Written and Approved Final Dissertation.	X	X	X	X	X
9. Oral defense of Dissertation.	X	X	X	X	X
10. Graduate Student Exit Survey.	X	X	X	X	X