

2. Assessment Objectives				
#	Objective & Description	Related Items	Standards and Associations	Student Related
2.1	Apply knowledge of mathematics and engineering : Students will be able to apply knowledge of mathematics, science, and engineering to solve telecommunications engineering problems	General Education Outcome Items <ul style="list-style-type: none"> 2. Mathematics 3. Quantitative Methods 10. Foundational Knowledge in Discipline(s) Strategic Plan Items <ul style="list-style-type: none"> I-1 Research Enterprise Initiative II-1 The Education of Leaders IV-1 National and Global Security Institutional Priority Items <ul style="list-style-type: none"> SP-1 Double the Size of the Faculty SP-2 Add 5,000 New Students COM-3 Sustain Progress toward Tier One Status in terms of programs, research and faculty quality COM-4 Enhance research, graduate education and technology-driven economic development CMP-1 Increase number of faculty and grad students in engineering, physical sciences & technology 	The Accreditation Board for Engineering and Technology (ABET, http://www.abet.org/) is the professional accrediting organization that accredits undergraduate engineering programs. UT Dallas has four Engineering and Computer Science Undergraduate Programs that are ABET accredited. Related Criteria: a) An ability to apply knowledge of mathematics, science and engineering e) An ability to identify, formulate and solve engineering problems	Yes
2.2	Conduct experiments and analyze data: Students will be able to conduct experiments as well as to analyze and interpret data.	General Education Outcome Items <ul style="list-style-type: none"> 2. Mathematics 3. Quantitative Methods 10. Foundational Knowledge in Discipline(s) Strategic Plan Items <ul style="list-style-type: none"> I-1 Research Enterprise Initiative II-1 The Education of Leaders IV-1 National and Global Security Institutional Priority Items <ul style="list-style-type: none"> SP-1 Double the Size of the Faculty SP-2 Add 5,000 New Students COM-2 Protect Enrollment Gains, Access and Student Quality as part of moving toward Tier One Status COM-4 Enhance research, graduate education and technology-driven economic development CMP-1 Increase number of faculty and grad students in engineering, physical sciences & technology 	The Accreditation Board for Engineering and Technology (ABET, http://www.abet.org/) is the professional accrediting organization that accredits undergraduate engineering programs. UT Dallas has four Engineering and Computer Science Undergraduate Programs that are ABET accredited. Related Criteria: a) An ability to apply knowledge of mathematics, science and engineering b) An ability to design and construct experiments, as well as to analyze and interpret data c) An ability to design a system, component or process to meet desired needs k) An ability to use the techniques, skills and modern engineering tools necessary for engineering practice	Yes