

Technological Skills (SLO) – The graduate makes appropriate use of technologies to communicate, collaborate, solve problems, make decisions, and conduct research, as well as foster creativity and life-long learning.

Learning Indicators	Level 4	Level 3	Level 2	Level 1
	Master	Proficient	Apprentice	Novice
1.0 Ability to describe the principle of operation and technical specifications of equipment used for measuring physical, chemical, biological and/or physiological phenomena	Able to correctly describe the specifications and operating characteristics of 3 or more different types of equipment used to take measurements from biological/physiological phenomena	Able to correctly describe the specifications and operating characteristics of 2 different types of equipment used to take measurements from biological/physiological phenomena	Able to correctly describe the specifications and operating characteristics of only 1 type of equipment used to take measurements from biological/physiological phenomena	Unable to correctly describe the specifications and/or operating characteristics of any equipment used to take measurements from biological/physiological phenomena
2.0 Ability to select measuring equipment/techniques appropriate to a physical/chemical/biological/physiological phenomena to be measured	Selects the most appropriate equipment/techniques to take measurements from 3 or more unique biological/physiological phenomena; Able to justify each choice in a clear and logical manner when questioned.	Selects the most appropriate equipment/techniques to take measurements from 2 different biological/physiological phenomena; Able to justify choices when questioned.	Selects the most appropriate equipment/techniques to take measurements from 1 biological /physiological phenomenon; May choose suboptimal equipment/techniques for other situations; Able to partially justify choices.	Does not select the most appropriate equipment or techniques for measuring any biological/physiological phenomena; Unable to justify choices.
3.0 Ability to use computers and computer software for analyzing and solving problems and justify application of hardware and software selected.	Independent ability to choose and correctly apply modern analytical software packages, such as MatLab, LabView, statistical analysis packages, CAD/CAM software for modeling, design, and analysis of biomedical science and engineering problems. Able to justify choice of hardware and software in a clear and logical manner when questioned.	Ability to correctly apply modern analytical software packages with occasional guidance as to the correct choice. Can use MatLab, LabView, statistical and/or CAD/CAM software for modeling and analysis of biomedical engineering problems. Able to justify choice of hardware and software when questioned.	Familiar with many modern software packages but requires assistance in applying them correctly; Can use some of these packages to analyze biomedical engineering problems. Able to partially justify choice of hardware and/or software.	Familiar with only a few appropriate software packages and cannot apply these packages appropriately without guidance. Seldom able to use software to conduct an appropriate analysis of a biomedical engineering problem Unable to justify choice of hardware and/or software.