Concentration Specific Outcomes and Competencies:

1. **Computer Technology Competencies**

   1.1 Have an understanding of computer components, operating systems, basic software application and content creation proficiency.

   1.2 Have an understanding of telecommunications’ hardware and software applications, data transmission, networks and system parameters including conventional and contemporary components of data transfer and signal modifications over networks.

   1.3 Have an understanding of the construction, design and maintenance of large and small computer networks with a focus on structure, hardware, software, security, and protocols of contemporary systems.

2. A graduate will have an understanding of and appreciation of the diversity of socio-economic issues, adoption theories and legal and ethical impacts of information and communication technologies, equipment, and resources for the design of artifacts and digital documents.

   2.1 Have an appreciation of theories, and legal and ethical impacts of information and communication technologies.

   2.2 Have an understanding of equipment and resources for the design of artifacts and digital documents.

3. A graduate should possess an understanding of and skill in the use of a variety of computer applications.

   3.1. Have an understanding of the design, development, and maintenance of Internet web sites including the fundamentals of code, servers, and software for creating web content.

   3.2. Have an understanding of computer-aided design (CAD) systems including hardware and software applications; proficiency in the fundamentals of 2D and 3D technical graphics.

   3.3. Have an understanding of conventional and contemporary digital graphic communication creation technologies with a focus on digital workflows, equipment, and materials for the design of artifacts and digital documents.

   3.4. Have an understanding of the contemporary design and development of dynamic websites including web standards, server-side programming, databases, and digital image manipulation.