General Education Competencies with Performance Indicators

GEC #1 – Communicate effectively by listening, speaking, and writing using appropriate technology

a. Reads, comprehends, analyzes, evaluates various writing.

b. Logically organizes, develops, and communicates an idea or position.

c. Adapts communications to audience, situation, and purpose.

d. Uses prewriting, drafting, revising, and editing techniques using appropriate vocabulary, grammar, punctuation, spelling, and syntax.

e. Writes effective business/technical communications (memos, letters, reports, etc.) and formats them appropriately.

f. Demonstrates public speaking skills and effective listening techniques.

g. Uses library print and electronic resources for literature research.

h. Uses computer technology to organize, access, and communicate information.

GEC #2 – Use quantitative and scientific knowledge effectively to solve problems, manipulate and interpret data, and communicate findings

a. Demonstrates knowledge of basic mathematical or scientific concepts.

b. Applies basic mathematical or scientific principles and/or formulas.

c. Estimates answers to mathematical or scientific problems before solving.

d. Solves basic analytical problems.

e. Interprets and constructs graphs, charts, or tables.

f. Demonstrates an ability to apply mathematical thinking or the process of scientific inquiry to address real-world situations or problems.

g. Uses appropriate scientific reasoning skills to interpret and analyze content in the natural sciences.

h. Communicates scientific or mathematical knowledge in oral or written forms.

i. Demonstrates an understanding of proper laboratory techniques and practices.

GEC #3 – Demonstrate interpersonal skills and ethical behavior appropriate for living and working in a diverse society

a. Evaluates various ethical perspectives/concepts.

b. Assesses the global impact of one's own and others' specific local actions on the natural and human world.

c. Exhibits the ability to relate to the perspectives and feelings of others in a supportive manner.

d. Demonstrates self-awareness as a learner by employing prior learning experiences to solve new challenges.

e. Examines the complexity of elements important to members of another culture in relation to its history, values, politics, communication styles, economy, beliefs, or practices.

f. Supports a constructive team climate as follows: treats team members respectfully by being polite and constructive in communication, motivates team members by expressing confidence about the importance of the task and the team's ability to accomplish it, and/or provides assistance and encouragement to team members.

g. Employs multiple perspectives (such as cultural, disciplinary, and ethical) when investigating subjects within natural and human systems.

h. Resolves conflicts constructively.

GEC #4 – Apply critical thinking skills to analyze problems and make informed decisions.

a. Asks pertinent questions and applies effective observation techniques.

b. Synthesizes necessary information using a variety of primary and secondary sources and techniques.

c. Analyzes and evaluates information for factual accuracy, bias, assumptions, and relevance.

d. Extrapolates, applies, synthesizes, and integrates knowledge gained from project-based research.

e. Constructs and analyzes a position in relation to alternative or conflicting viewpoints.

f. Applies a systematic approach to solve problems or make decisions.

g. Explains and analyzes why one or more approaches for solving a problem or making a decision will be effective.