Biotechnology Laboratory Technician

AAS in Biotechnology Laboratory Technician:
Upon completion of the **General Education Competencies:**
Students should prepare for twenty-first century challenges by gaining:

A. Knowledge of human cultures and the physical and natural worlds through study in the sciences and mathematics, social sciences, humanities, languages, and the arts.
B. Intellectual and practical skills, including
   - Inquiry and analysis
   - Critical and creative thinking
   - Written and oral communication
   - Quantitative literacy
   - Information literacy
   - Teamwork and problem solving
C. Personal and social responsibility, including
   - Civic knowledge and engagement (local and global)
   - Intercultural knowledge and competence
   - Ethical reasoning and action
   - Foundations and skills for lifelong learning
D. Integrative and applied learning, including synthesis and advanced accomplishment across general and specialized skills.

Technical Competencies/Learning Outcomes:

1. Speak and write clearly using Standard English.
2. Demonstrate information processing through basic computer skills.
3. Demonstrate problem solving through interpreting, analyzing, summarizing, and/or integrating a variety of materials.
4. Use mathematics to organize, analyze, and synthesize data to solve a problem.
5. Use appropriate research strategies and resources to find, evaluate, and use information.
6. Apply learning in academic, personal, and public situations.
7. Think creatively to develop new ideas, processes, or products.
8. Develop an awareness of the relationship of the individual to the biological and physical environment.
9. Perform routine laboratory support work, including operating, maintaining, and troubleshooting laboratory equipment.
10. Design experiments, perform assays, and suggest improvements.
11. Maintain a safe and productive work environment.
12. Perform documentation and data analysis, create documents, and communicate results.
13. Demonstrate scientific honesty and personal responsibility.
14. Demonstrate proficiency in preparing, maintaining, and storing biological and/or chemical materials.
15. Follow standard operating procedures and other written procedures, and suggest improvements.