Course Description/Purpose

Students will design and implement programs for Windows using RAD tools and C++. The speed and ease of use for RAD tools combined with the power of C++ will be utilized to create complete Windows applications. Programs will be developed that utilize many GUI features found in Windows such as buttons, menus, windows, scroll bars, text areas, etc.

Major Units

- C++ Development Tools for Windows
- RAD Tools
- Graphical User Interface Design
- Common Windows Controls
- Additional Windows Controls
- Event Driven Programming
- Debugging
- C++ Class Libraries

Educational/Course Outcomes

Student learning will be assessed by a variety of methods, including, but not limited to, quizzes and tests, journals, essays, papers, projects, laboratory/clinical exercises and examinations, presentations, simulations, portfolios, homework assignments and instructor observations.

Cognitive  Each student will be expected to Identify/Recognize...

- Concepts pertaining to all of the major units

Performance  Each student will be expected to Demonstrate/Practice...

- Design and development of complete programs
- Proper use of the development environment
- Proper use of C++
- Proper use of RAD tools.
- Good user interface design
- Programs using standard Windows controls
- Programs using advanced Windows controls
- Programs using C++ class libraries for Windows
- Event driven programs
- Proper software engineering techniques