IST 110C: Programming Fundamentals

Introduces students to design and develop computer programs using the C# language. Students learn and resolve a range of programming problems by applying techniques of design, structured coding, debugging, error-handling, and troubleshooting. The course begins by exploring procedural syntax and concludes with an introduction to object-oriented programming. Topics include problem analysis, computer logic and flow control, decision and repetition structures, use of methods, arrays, program documentation, class definitions, and use of a debugger. No prior programming knowledge is necessary.

Credits 3

Lab/Practicum/Clinical Hours 2

Lecture Hours 2

Learning Outcomes

- Understand the use of Microsoft Visual Studio to design, develop, debug and execute small computer programs.
- Write computer programs in C# programming language
- · Use memory concepts while writing programs using primitive data types.
- Use concepts of value types, reference type and output variables.
- Design and develop modular computer programs while using control structures and algorithms.

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