Course Profile: Computer Programming

Course Number: INF 6050

Credits: 3

Prerequisite(s): None

Rationale for Inclusion in Curriculum:

This course introduces students to the development and implementation of dynamic and interactive computer programs through a basic scripting language (Python). In order to accomplish this, students learn the basics of programming both through lectures and hands-on exercises. Even if you have never seen a program, heard of programming languages or thought about developing a program, this course can provide you with the skillset to create your own small programs, understand programming, and imagine new programs that can help your employer. The skills you learn are both timely and marketable. The semester begins with a brief introduction to the basic concepts in programming languages such as variables, proper code syntax, and logical statements. Students are asked to focus on the technical aspects of coding; how to create scripts that allow you to do fun and interesting things. Upon completion of the course, students will understand: the basics of programming, be able to utilize scripts to connect and retrieve information from a SQL database, and develop coding skills that will allow them to create more advanced applications. If you like solving puzzles, programming is for you.

Learning Outcomes:

By the end of the course students will be able to:

- Describe fundamental programming concepts
- Employ data from a SQL database to create dynamic programs
- Use program design in the context of present-day practices including both procedural and object-oriented processes
- Understand and apply theories, models, and concepts from the discourse on programming practices
- Analyze and interpret pre-existing programs (debugging) • Evaluate programming practices from the beginning of a project through completion • Appraise tasks and problems from a logic-based programming perspective

**Course Methodology:**

This course will include class discussions, assigned exercises, video responses, group projects and a midterm exam

**Grading Scale:**

See the WSU SIS polices website: http://sis.wayne.edu/students/policies/grades.php for the specifics of the school’s grading policy.

The grading scale used for this course is a point system with 100 points being a perfect score

**Text:** To be selected by the instructor.

**Approved: 8/17**
**Updated: 10/23**