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| **CS 1400** | **Programming Fundamentals** | Pre-requisites |
| *Pre-program* | *None* |

The following topics will be covered in this course: Introduction to computers and programming; Data representation; Control structures; Functions; Arrays; Social context of computing.

**Learning Outcomes**

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| Students will know the basic data types, control structures, and programming approaches for a current programming language. | Students will be able to solve problems by developing algorithms and implementing those algorithms using a current programming language. | Students will begin to understand the social responsibilities of the computing professional and the impact of computing on society |
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| **CS 1410** | **Object-Oriented Programming** | Pre-requisites |
| Yr1 - Fall | CS 1400 |

The following topics will be covered in this course: Encapsulation; Inheritance; Polymorphism; Exception handling. Basic data structures; Recursion; The software development process

**Learning Outcomes**

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| Students will know some basic data structures, basic software methodologies, and machine level representation of data. | Students will be able to apply appropriate software design methodologies for larger programs, use appropriate data structures, and use an object-oriented language. |  |
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