Minnesota State
Community and Technical College

# CPTR1040 - Introduction to Programming Logic

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| Credits: | 3 (2/1/0) |
| Description: | This course introduces students to computer programming logic and troubleshooting. Students are introduced to algorithm development and structure programming. These concepts are foundational to learning to program and general troubleshooting. |
| Prerequisites: | |
| Corequisites: | |
| Pre/Corequisites*: | |
| Competencies: | 1. Document the logic of a program.<br>2. Explain control structures operation.<br>3. Explain the relationship behind hardware, software and networks.<br>4. Describe industry standard code development techniques.<br>5. Describe how data is represented, abstracted and communicated.<br>6. Evaluate the impact of technology on a chosen field.<br>7. Describe selected security techniques.<br>8. Articulate how programs are developed.<br>9. Demonstrate the ability to navigate, modify and secure selected file systems.<br>10. Explain some current issues about computers and society, potentially including but not limited to security, cyber-attacks, AI, cloud computing and IoT. |
| MnTC goal areas: | None |

*Can be taking as a Prerequisite or Corequisite.