

## CPTR2242 - Java Programming

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| Credits:           | 3 (2/1/0)  |
| Description:       | In this course the student utilizes the Java programming language to create both Internet applets and applications.  |
| Prerequisites:     |  |
| Corequisites:      |  |
| Pre/Corequisites*: |  |
| Competencies:      | <ol style="list-style-type: none"> <li>1. Be aware of structured and object-oriented programming design methodologies.</li> <li>2. Understand the basic components of a Java program, including methods, special symbols, and identifiers.</li> <li>3. Examine how a program evaluates arithmetic expressions.</li> <li>4. Explore how to properly structure a program, including using comments to document a program.</li> <li>5. Demonstrate how to import packages.</li> <li>6. Explain type casting.</li> <li>7. Use object and reference variables.</li> <li>8. Utilize the class String.</li> <li>9. Demonstrate how to use input and output dialog boxes in a program.</li> <li>10. Use predefined and user-defined methods in a program.</li> <li>11. Code control structures.</li> <li>12. Utilize relational and logical operators.</li> <li>13. Define modifiers.</li> <li>14. Explore variables as parameters.</li> <li>15. Create packages.</li> <li>16. Demonstrate knowledge of the abstract data type (ADT).</li> <li>17. Create one-dimensional and multidimensional arrays.</li> <li>18. Test and debug Java programs.</li> </ol> |
| MnTC goal areas:   | None   |

\*Can be taking as a Prerequisite or Corequisite.