

# Computer Information Systems • Programming • Upskill Certificate

## On-Campus or Online

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### Semester Course Outline • 2022 – 2023

9 Months (2 Semesters) • Revised: 4/19/22

Credits Required for Certificate: 18

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#### Fall Semester

| Course Number | Course Title                         | Clock Hours | Credits |
|---------------|--------------------------------------|-------------|---------|
| CIS 132       | Intro to Computer Programming        | 45          | 3       |
| CIS 136       | Intro to Object-Oriented Programming | 84          | 3       |
| CIS 141       | Web Design and Maintenance           | 84          | 3       |
| <b>Total</b>  |                                      | 213         | 9       |

#### Spring Semester

| Course Number | Course Title                         | Clock Hours | Credits |
|---------------|--------------------------------------|-------------|---------|
| CIS 180       | Computer Programming I               | 84          | 3       |
| CIS 238       | Advanced Object Oriented Programming | 84          | 3       |
| CIS 276       | Web Applications – PHP               | 84          | 3       |
| <b>Total</b>  |                                      | 252         | 9       |