



Online BS in Computer and Information Science

Student Name _____

General Education Core (64 Credits)

English and Communications (20 Credits)

| | | | |
|----------|----------------------------|---|--|
| EN151-ON | Rhetoric and Styles | 4 | |
| EN152-ON | Writing from Sources | 4 | |
| EN157-ON | Practical Research Writing | 4 | |
| EN166-ON | Speech | 4 | |
| HM491-ON | Senior Seminar | 4 | |

20

Mathematics and Science (20 Credits)

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|----------|------------------------|---|--|
| MT153-ON | General Education Math | 4 | |
| MT155-ON | Intermediate Algebra | 4 | |
| MT158-ON | College Algebra | 4 | |
| BL103-ON | | 4 | |
| * | | 4 | |

20

*One course from BL, CH, ET, or PH

Behavioral Sciences and Humanities (20 Credits)

| | | | |
|----------|----------------------------|---|--|
| HM279-ON | East-West Signature Course | 4 | |
| PS101-ON | | 4 | |
| SC101-ON | | 4 | |
| * | | 4 | |
| * | | 4 | |

20

* one course from EN, HS, HM, IS, PL, PS, SC, or SP

Computer and Information Science (4 Credits)

| | | | |
|----------|-------------------------------------|---|--|
| CI101-ON | Computer Technology and Application | 4 | |
|----------|-------------------------------------|---|--|

4

CIS Major Area Courses (100 Credits)

Core Courses (56 credits)

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|-------------------|---|---|--|
| CI215-ON/CI216-ON | JAVA I/ C# I | 4 | |
| CI221-ON | PYTHON I | 4 | |
| CI245-ON/CI246-ON | JAVA II/ C# II | 4 | |
| CI251-ON | PYTHON II | 4 | |
| CI256-ON | HTML5 | 4 | |
| CI275-ON | Computer Organization and Architecture | 4 | |
| CI301-ON | Data Communications | 4 | |
| CI310-ON | Principles of Database | 4 | |
| CI320-ON | Data Structures | 4 | |
| CI321-ON | Computer Operating Systems | 4 | |
| CI328-ON | Introduction to Data Science and Big Data | 4 | |
| CI340-ON | Artificial Intelligence | 4 | |
| CI354-ON | SQL Server Database Programming | 4 | |
| CI492-ON | Senior Project | 4 | |

56

Cognate or Supporting Courses (16 Credits)

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|----------|--------------------------------|---|--|
| BS101-ON | Introduction To Business | 4 | |
| MT160-ON | Elementary Plane Trigonometry | 4 | |
| MT201-ON | Calculus I | 4 | |
| MT215-ON | Introduction to Linear Algebra | 4 | |

16

Specialist Courses (28 Credits)

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|----------|---------------------------------|---|--|
| CI213-ON | Desktop Spreadsheet Application | 4 | |
| CI220-ON | Cyber Ethics | 4 | |
| CI345-ON | Machine Learning | 4 | |
| CI351-ON | Natural Language Processing | 4 | |
| DM240-ON | Computer Graphic Design | 4 | |
| DM260-ON | Digital Imaging: Photoshop I | 4 | |
| DM290-ON | Digital Video Production | 4 | |

28

Elective Courses (16 Credits)

| | | | |
|---|--|---|--|
| * | | 4 | |
| | | 4 | |
| | | 4 | |
| | | 4 | |

*4 credit hours should be at the 300 or 400 level

16

Total Credits:

180