**2019 VMS CS Study Plan  
(for 64x students)**

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| **Year 1, Semester 1** | | |
| **Course Code** | **Course Title** | Credits |
| BG 1001 | English I | 3 (2-3-6) |
| CSX 1001 | Basic Mathematics and Statistics | 3 (3-0-6) |
| CSX 2001 | Introduction to Information Technology | 3 (3-0-6) |
| CSX 3001 | Fundamentals of Computer Programming | 3 (3-0-6) |
| BBA 1001 | Business Exploration | 3 (3-0-6) |
|  | **Total** | **15 (14-3-30)** |
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| **Year 1, Semester 2** | | |
| **Course Code** | **Course Title** | Credits |
| BG 1002 | English II | 3 (2-3-6) |
| LAW 1201 | Business Laws for Entrepreneurs | 3 (3-0-6) |
| CSX 2002 | Calculus | 3 (3-1-7) |
| CSX 2003 | Principles of Statistics | 3 (3-1-7) |
| CSX 2004 | UI/UX Design and Prototyping | 3 (3-0-6) |
| CSX 3002 | Object-Oriented Concepts and Programming | 3 (3-0-6) |
|  | **Total** | **18 (17-5-38)** |

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| **Year 2, Semester 1** | | |
| **Course Code** | **Course Title** | Credits |
| BG 2000 | English III | 3 (2-3-6) |
| CSX 2005 | Design Thinking | 3 (3-0-6) |
| CSX 2006 | Mathematics and Statistics for Data Science | 3 (3-1-7) |
| CSX 3003 | Data Structure and Algorithms | 3 (3-0-6) |
| CSX 3004 | Programming Languages | 3 (3-0-6) |
| CSX 3005 | Computer Networks | 3 (3-0-6) |
|  | **Total** | **18 (17-4-37)** |

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| **Year 2, Semester 2** | | |
| **Course Code** | **Course Title** | Credits |
| BG 2001 | English IV | 3 (2-3-6) |
| BAC 1602 | Fundamentals of Financial Accounting I | 3 (3-0-6) |
| CSX 2007 | Data Science | 3 (3-0-6) |
| CSX 2008 | Mathematics Foundation for Computer Science | 3 (3-0-6) |
| CSX 3006 | Database Systems | 3 (3-0-6) |
|  | One Major Elective Course | 3 (3-0-6) |
|  | **Total** | **18 (17-3-36)** |

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| **Year 3, Semester 1** | | |
| **Course Code** | **Course Title** | **Credits** |
| CSX 2009 | Cloud Computing | 3 (3-0-6) |
| CSX 3007 | Computer Architecture | 3 (3-0-6) |
| CSX 3008 | Operating Systems | 3 (3-0-6) |
| CSX 3009 | Algorithm Design | 3 (3-0-6) |
|  | Two Major Elective Courses | 6 (6-0-12) |
|  | **Total** | **18 (18-0-36)** |
| **Year 3, Semester 2** | | |
| **Course Code** | **Course Title** | Credits |
| GE 2202 | Ethics | 3 (3-0-6) |
| CSX 3010 | Senior Project I | 3 (3-0-6) |
|  | Two Major Elective Courses | 6 (6-0-12) |
|  | One Free Elective Course | 3 (3-0-6) |
|  | **Total** | **15 (15-0-30)** |

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| **Year 4, Semester 1** | | |
| **Course Code** | **Course Title** | Credits |
|  | Three Major Elective Courses | 9 (9-0-18) |
|  | Two General Education Courses | 6 (6-0-12) |
|  | One Free Elective Course | 3 (3-0-6) |
|  | **Total** | **18 (18-0-36)** |

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| **Year 4, Semester 2** | | |
| **Course Code** | **Course Title** | Credits |
| CSX 3011 | Senior Project II | 3 (3-0-6) |
|  | Two Major Elective Courses | 6 (6-0-12) |
|  | One Free Elective Course | 3 (3-0-6) |
|  | **Total** | **12 (12-0-24)** |