**BS IN COMPUTER SYSTEMS AND NETWORK ENGINEERING CHECKLIST**

**Mount Vernon Nazarene University, 2022-2023**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student ID \_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_

**BA/BS DEGREE REQUIREMENTS:**

Must complete ALL of the following:

\_\_ 1. Minimum of 120 semester hours.

\_\_ 2. General Education Core.

\_\_ 3. One (1) semester foreign language at the college level

 OR two (2) years of one high school foreign language.

\_\_ 4. Algebra (MAT0093) OR two (2) years of high school algebra and/or geometry

\_\_ 5. 40 semester hours of courses numbered 3000 or above. (marked with \* below)

\_\_ 6. Complete course work for an approved major and minor.

\_\_ 7. Cumulative GPA of at least 2.00 in all courses at MVNU.

\_\_ No grade below "C-" in required major courses.

\_\_ No grade below "C-" in the minimum number of major electives.

\_\_ 8. Complete Junior-Senior assessment program.

**GENERAL EDUCATION CORE REQUIREMENTS**

**Competencies 10-15 Common Core 23**

\_\_ ENG1083 or ENG1084 College Writing 3-4 \_\_ HUM1012 Discipleship, Christian Mind 2

\_\_ Foreign Lang or Communication 3-4 \_\_ BIB1014 Narrative of Scripture 4

\_\_ Quantitative Reasoning 3-4 \_\_ HIS1013 Western Tradition 3

\_\_ Health & Wellness 1-3 \_\_ PHI2013 Love, Justice and Good Life 3

\_\_ Communication Arts or Honors Core Conversations

 \_\_ HUM2013 Arts and Human Identity 3

**Explorations** **11-17** \_\_ SCI3012 Science and Modern Mind 2\*

\_\_ Crossing Cultures 0-4 \_\_ THE3003 Christian Beliefs 3\*

\_\_ Natural Science with lab 4 \_\_ ITD5013 Contemporary Concerns 3\*

\_\_ Social Science 3

\_\_ The Arts 1-3

\_\_ Literature 3

 or Honors Core Conversations

**MAJOR REQUIREMENTS: BS Computer Systems and Network Engineering**

**Major Courses 48 credits (including cognate course below)**

\_\_ CSC1024 Computer Science I 4  **Skills, preparation for professional certifications 4**

\_\_ CSC2024 Computer Science II 4 \_\_ CSC2011 Computer Networking Fundamentals I

 CSC1053 Elementary Discrete Math 3 CSC2021 Server Administration Fundamentals I

\_\_ CSC3013 Comp. Networks and Telecom 3\* \_\_ CSC2031 Information Technology Security Fundamentals

\_\_ CSC3032 Database Management Sys. 2\* \_\_ CSC2041 Computer Networking Fundamentals II

\_\_ CSC3031 Database Management Lab 1\*

\_\_ CSC3024 Software & Sys Engineering 4\* **Select one of the following: 3**

\_\_ CSC3054 Comp. Org & Architecture 4\* \_\_ CSC2033 Data Structures & Algorithm Design

\_\_ CSC3083 Technology & Society 3\* \_\_ CSC3003 Web Application Development

\_\_ CSC4003 Comp & Information Security 3\*

\_\_ CSC4093 Computer Networking 3\*

\_\_ CSC4062 Practicum in Networking 2\*

\_\_ CSC4072 Practicum in Server Admin 2\*

 **Choose any Minor:**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Required Cognates 3** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_ MAT2063 Intro to Statistics 3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Recommended Elective: 0** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 CSC5019 Internship 1-4\* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**