**BS IN COMPUTER SCIENCE 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.

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

**GENERAL EDUCATION CORE REQUIREMENTS**

**Competencies 10-15 Common Core 22**

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

\_\_ Foreign Lang or Communication 3-4 \_\_ BIB1013 Narrative of Scripture 3

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

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

 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

# BS COMPUTER SCIENCE REQUIREMENTS

**Major Courses 48**

\_\_ CSC1024 Computer Science I 4 \_\_ CSC3083 Technology & Society 3\*

\_\_ CSC2024 Computer Science II 4 \_\_ CSC4081 Computer App. Practicum I 1\*

\_\_ CSC1053 Elementary Discrete Math 3 \_\_ CSC4082 Computer App. Practicum II 2\*

\_\_ CSC2033 Data Structures & Algorithms 3 \_\_ CSC3044 Operating Systems 4\*

 CSC3004 Software Development 4\* CSC4023 Programming Languages 3\*

\_\_ CSC3013 Comp. Networks and Telecom 3\* \_\_ CSC4093 Computer Networking 3\*

\_\_ CSC3024 Software & Sys Engineering 4\*

\_\_ CSC3032 Database Management Sys. 2\*

\_\_ CSC3031 Database Management Lab 1\*

\_\_ CSC3054 Computer Org & Architecture 4\*

**Math Minor Courses 17**

\_\_ MAT1034 Calculus I 4 \_\_ MAT2063 Intro to Statistics 3

\_\_ MAT2034 Calculus II 4 \_\_ MAT3023 Advanced Discrete Math 3\*

\_\_ MAT3013 Linear Algebra 3\*

**Electives (as needed)**

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