Sample Four-year Plan for Computer Science (BS)

Note: The four-year plan is for example purposes only. Students should refer to the catalog in effect upon their entry to Viterbo for more specifics on requirements of the core curriculum, major, and degree. Some courses have certain semester rotations that may or may not be reflected below. Your advisor will assist you with actual registration planning to accommodate these rotations. For complete information, see the current undergraduate catalog.

Fall Semester – First Year		Spring Semester – First Year	
ENGL 103/104/105 – CCF Written Communication	3–4	VUSM FVT – Franciscan Values and Traditions	3
ENGR 130 –First Year Design (Artistic Engagement)	3	ENGL 104/105/195 – CCF Written Communication	3–4
CSCI 110 – Introduction to Software Engineering	4	CSCI 160 – Data Structures and Algorithms	4
INFO 303 – Advanced Excel	1	MATH 150 – MATLAB Programming	1
MATH 261 – Discrete Mathematics	4	MATH 230 – Statistics with R Programming	4
TOTAL CREDITS	**15–16**	**TOTAL CREDITS**	**15–16**
Fall Semester – Second Year		**Spring Semester – Second Year**	
CCF Written Communications II	3	COMM 150 – Fundamentals of Speech (CCF Oral Communication)	2
CCWOT Natural Science (Recommend PHYS 250/270 – General Physics I)	4	VUSM LDW – Living in a Diverse World	3
CSCI 310 – Database Systems	3	CSCI 200 – Web Development	3
General Elective/Minor²	3	CSCI 210 – Networking and Cloud Interface	3
General Elective/Minor²	3	General Elective/Minor²	3
TOTAL CREDITS	**16**	**TOTAL CREDITS**	**14**
Fall Semester – Third Year		**Spring Semester – Third Year**	
VUSM SJE – Social Justice and Equity	3	CCWOT (Recommend Social Sciences)	3
MATH 335 – Data Analysis	3	CCWOT (Recommend Theological Inquiry)	3
CSCI 320 – Embedded Systems Architecture	3	CSCI 410 – Embedded Operating Systems and Kernel Development	3
CSCI 498 – Internship	3	ENGR 370 – Systems Engineering	4
General Elective/Minor²	3	General Elective/Minor²	3
TOTAL CREDITS	**15**	**TOTAL CREDITS**	**16**
Fall Semester – Fourth Year		**Spring Semester – Fourth Year**	
VUSM TEL – The Ethical Life	3	CCWOT (Recommend Literary Analysis)	3
CCWOT (Recommend Integrating Faith and Practice)	3	CCWOT (Recommend Philosophical Inquiry)	3
CSCI 498 – Capstone Design Lab 1	3	CSCI 499 – Capstone Design Lab II	3
General Elective/Minor²	3	General Elective/Minor²	3
General Elective/Minor²	3	General Elective/Minor²	3
TOTAL CREDITS	**15**	**TOTAL CREDITS**	**15**

NOTES:

[1]Contingent on math placement; if placed in MATH 112, student must take MATH 112 before MATH 261.

[2]A minor is highly recommended to cultivate a multifaceted skill set. Students have the option to delve deep into fields that align with their career goals and interests, fostering a well-rounded education. To graduate with a BS degree, students must fulfill a minimum of 120 credits, which includes 40 upper-division credits.

[3]As part of the program's flexible structure, students can carve out their own focus areas by combining the core computer science curriculum with minors in complementary fields such as data science, business, or engineering. This approach encourages a broad understanding and application of computer science principles across different sectors.

[4]Students may choose to do a co-op program instead of an internship.