GUSTAVUS ADOLPHUS COLLEGE

Computer Science Transfer Pathway **Century College**

Requirements based on 2025-26 academic catalogue | Updated 8/7/25

This document is designed for Century students completing the Computer Science Transfer Pathway A.A. with the intent to transfer to Gustavus Adolphus College and complete the Computer Science B.A. degree. Students who do not intend to complete the 60-credit degree should contact Julia Macor at jmacor@gustavus.edu to plan course selections.

Below is the list of approved course work from the pathway that meets general education requirements or Computer Science major requirements. All courses must be completed with a C- or better to transfer.

Century course – major and goal areas	Credits	Gustavus course (current status)
Required pathway courses:		
CSCI 1081 Programming Fundamentals	4	MCS 177
CSCI 1082 Object-Orientated Programming	4	MCS 178
CSCI 2014 Discrete Structures of Computer Science	4	MCS 150
CSCI 2016 Intro to Organization of Computer Systems	4	MCS 276
CSCI 2082 Data Structures and Algorithms	3	None within MCS
Complete 11 credits: Any 2XXX CSCI course not listed above AND 7 credits from the following: ENGL 1025 Technical and Professional Writing MATH 1025 Statistics MATH 1082 Single Variable Calculus II MATH 2025 Probability and Statistics with Calculus MATH 2082 Linear Algebra and Differential Equations PHYS 1081 Introductory Physics I	(11) 4 3 4 5 4 5 5	 None within MCS MCS 142 MCS 122 MCS 142 MCS 253 None within MCS
Total for major	37	
*Recommended for university		

Goal areas for MnTC		General education
Goal area 1 - ENGL 1020 Composition I* **and** COMM 1031 Interpersonal Communication*	7	English elective and COM 117
Goal area 3 – choose one PHYS 1041 General Physics I PHYS 1081 Introductory Physics I PHYS 1042 General Physics II PHYS 1082 Introductory Physics II	5	Science w/lab requirement (if 4+cr, otherwise elective cr)
Goal area 4 – choose one MATH 1025 Statistics MATH 1061 College Algebra MATH 1062 College Algebra II with Trigonometry MATH 1082 Single Variable Calculus II	4-5	Meets Quantitative Reasoning requirement
Goal area 5 – choose two courses	6	Meets Humanities or Human Behavior Social institutions
Goal area 6 – choose two courses	6	Meets Fine Arts requirement (if 3 cr, or stack to 4 cr)
Goal area 7-10 – choose two courses	6	Meets Humanities requirement/elective
Completion of MnTC requirements (Strongly recommended to complete)		Meets most general education requirements
Total credits transferred for A.S. degree	60-72	
*Recommended for university		

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Remaining major courses for Computer Science B. S. degree	Credits
MCS 177 Computer Science I	0
MCS 178 Computer Science II	0
MCS 287 Principles of Programming languages	4
MCS 374 Software Engineering	4
MCS 150 Discrete Mathematics	0
MCS 250 Discrete Mathematics II	4
MCS 375 Algorithms: Analysis and Design	4
MCS 189 Introduction to Data	4
MCS 210 Computing in Society	4
MCS 276 Intro Systems I	0
MCS 376 Intro Systems II	4
Elective: Choose one MCS 381 Social Computing MCS 382 Machine Learning MCS 384 Prob Solving & Competitive Programming	4
Total credits required for the major	32

Remaining graduation requirements for B.A. degree	Credits
CHAL (Challenge Seminar) SIGX (Signature Experience) for students starting at Gustavus Fall 2026 and later	4 4
Elective credits to reach a minimum of 128 credits**	Varies
Total credits for B.A. degree	128

Students coming with credit for MCS-177, MCS-150, MCS-142, and MCS-122 are also well positioned to earn a statistics major at Gustavus as all four of these courses are required for a statistics major.