

Computer Science: Associate in Science Degree
Total Number of Credits: 64

Program Description: This degree introduces students to the skills related to the analysis, design and development of information systems. Upon completion, the graduate will have acquired a solid mathematical background and a firm foundation in both the practical and theoretical aspects of contemporary computer science. This program has been designed to equip students to transfer into a typical four-year Computer Science degree program.

Application Requirements: Assessment score placement in MATH 1061 or above, or completion of MATH 0070 with a grade of C or higher; assessment score placement in RDNG 1000 or completion of RDNG 0090 with a grade of C or higher.

Career/Occupational Requirements: 34 credits

CSCI 1081	Programming Fundamentals (formerly 2011)	3
CSCI 1082	Object-Oriented Programming (formerly 2020)	3
CSCI 2014	Discrete Structures of Computer Science	4
CSCI 2016	Machine Architecture & Organization	4
CSCI 2082	Data Structures and Algorithms (formerly 2040)	3
CSCI 2090	Functional Programming	1

General Education/MnTC Requirements: 30 credits

One (1) additional credit is needed beyond the minimums to reach 30 credits. See MnTC course list for options.

Goal 1–Communication: 7 credits

ENGL 1021	Composition I	4
COMM 1021	Fundamentals of Public Speaking	3

Goal 2–Critical Thinking is automatically fulfilled when all other MnTC goals are complete.

Goal 3 and/or Goal 4–Science/Math/Reasoning: 10 credits

MATH 1081	Single Variable Calculus I	5
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AND 5 (or more) credits from any of the following:

MATH 1061	College Algebra I	4
MATH 1062	College Algebra II with Trigonometry	4
MATH 1082	Single Variable Calculus II	5
PHYS 1041	General Physics I OR	5
PHYS 1081	Introductory Physics I	5
PHYS 1042	General Physics II OR	5
PHYS 1082	Introductory Physics II	5

Goal 5–History/Social and Behavioral Sciences: 6 credits

Two courses from two disciplines

Goal 6–Humanities and Fine Arts: 6 credits

Two courses from two disciplines

Goals 7-10: Three credits in each of two of these goals

(COMM 1021 fulfills Goal 9)

Select 16 credits chosen from any Century College CSCI course not listed above **OR** the following (not used for Gen. Ed./MnTC):

ENGL 1022	Composition II OR	3
ENGL 1025	Technical Writing	3
MATH 1025	Statistics	4
MATH 1082	Single Variable Calculus II	5
MATH 2025	Probability and Statistics	4
MATH 2082	Linear Algebra & Differential Equations	5
PHYS 1041	General Physics I OR	5
PHYS 1081	Introductory Physics I	5
PHYS 1042	General Physics II OR	5
PHYS 1082	Introductory Physics II	5

Suggested Schedule of CSCI Courses:

2009-2010-First Year Students

Fall Semester		Credits	Spring Semester		Credits
CSCI 1081	Programming Fundamentals	3	CSCI 1082	Object-Oriented Programming	3
			CSCI 2016	Machine Architecture & Organization	4

2009-2010-Second Year Students

Fall Semester		Credits	Spring Semester		Credits
CSCI 2082	Data Structures & Algorithms	3	CSCI 2014	Discrete Structures of Computer Science	4
			CSCI 2090	Functional Programming	1

General Requirements:

1. AS: At least 64 earned college-level credits (numbered 1000 or above). At least 20 credits must be earned at Century College.
2. Century college-level GPA of 2.0; required career and occupational courses GPA of 2.0; MnTC GPA of 2.0.
3. A grade of C or higher in ENGL 1021.

Assessment: *Assessments are required for all students* before registering for classes. Students may be required to take developmental courses in English, Reading and Mathematics based upon their assessment scores. For important information and exemptions see www.century.edu/futurestudents/assessment.

References to the Minnesota General Education Transfer Curriculum (MnTC): On this guidesheet, notations such as “Goal 1-Communication: 3 credits” are used to refer to the goals of the Minnesota General Education Transfer Curriculum. Refer to the MnTC Course List for the specific courses from which students may choose to fulfill the MnTC requirements of the program, found in the catalog the Counseling Center and on the Century website. Students should be aware that it may be necessary to select additional MnTC credits beyond the minimum required in each goal area, to reach the total MnTC/General Education credits required for their program. References to “two disciplines” means students must take a course from two different categories in that goal, for example Philosophy and Music in Goal Six.

Career Information: : Counselors are available in the Counseling and Career Center, Room 2400 West, to assist with educational and career planning. Resources available include career interest and personality inventories and print and web-based occupational and educational information, e.g., occupational descriptions, employment outlook, earnings, education/training requirements and sources. Consult the **GPS LifePlan** link on the Century website for information on these and more resources for your career, work, and educational planning!

Transfer: Some programs are intended primarily for employment preparation rather than transfer to a four-year institution. Some courses may not transfer to a number of four-year colleges. If you are considering the possibility of transfer, you may wish to talk with a counselor or the program instructor before registering to discuss your goals and look at programs designed for transfer. This degree transfers into the Computer Science Bachelors degree at Metropolitan State University through an articulation agreement. See a counselor if planning to pursue a 4-year computer related degree.

Time Limit for Meeting Graduation Requirements: See Century College catalog “Graduation” for information.

Academic Petitions: Any exceptions to the program requirements must be petitioned through the Vice President of Academic Affairs.

Important Phone Numbers: (651 Area Code)		Program Instructors:		
Admission Office	773-1700	Brian Downs (Sabbatical 09-10)	Room 2074 West	779-3490
Counseling Office	779-3285	Michael Gaffney	Room 2072 West	779-3945
Financial Aid Office	779-3305	Robert Niemann	Room 2075 West	779-3252
		James Koehne	Room 2076 West	779-3254