

Associate in Science Degree: Engineering

Total Number of Credits: 64

Program Description: The Associate in Science degree in Engineering is designed for students who plan to transfer to a four-year college or university to complete a baccalaureate degree program in one of the following engineering fields: aerospace, agriculture, biomedical, composites, chemical, civil, computer, electrical, environmental, geological, industrial, materials, mechanical, metallurgical and nuclear. This program includes the courses usually required in the first two years of a baccalaureate engineering curriculum. Students are urged to acquaint themselves with the requirements of the major department in the college or university where they plan to transfer, and to consult with the Century Counseling office for assistance in planning their program and selecting electives. Guide sheets are available in the Counseling Center (and on the website) describing requirements for each engineering field.

Core Requirements: 10 credits (see MNTC Goals 3/4 for more Math and Science requirements)

MATH 2081	Multivariable Calculus	5
MATH 2082	Linear Algebra and Differential Equations	5

Course Requirements: 15 credits

Select a minimum of 15 credits from the following courses appropriate for your specific major in consultation with a counselor or advisor

CHEM 1041	Principles of Chemistry I	5
CHEM 1042	Principles of Chemistry II	5
CHEM 2041	Organic Chemistry I	5
CSCI 1081	Programming Fundamentals	3
ENGL 1025	Technical Writing	3
ENGR 1020	Introduction to Engineering	4
ENGR 1080	Statics	3
ENGR 2080	Dynamics	3
ENGR 2085	Deformable Body Mechanics	3
ENGR 2091	Circuits I	4
ENGR 2092	Circuits II	4
ENGR 2095	Introduction to Digital Design	4

General Education/MnTC Requirements: 39 credits

See MnTC course list for options.

Goal 1 – Communication: 7 credits

ENGL 1021	Composition I	4
Select one of the following COMM courses:		3

COMM 1021	Fundamentals of Public Speaking
COMM 1031	Interpersonal Communication
COMM1041	Small Group Communication
COMM1051	Intercultural Communication

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

Goal 3 and/or Goal 4 - Sciences/Math/Logical Reasoning: 20 credits

MATH 1081	Single Variable Calculus I	5
MATH 1082	Single Variable Calculus II	5
PHYS 1081	Introductory Physics I	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 course fulfills one of these requirements)

General Requirements for the AS degree:

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

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 complete a course from two different categories in that goal, for example, Psychology and Economics in goal 5.

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: This degree is intended primarily for transfer to a four-year institution. 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. An articulation agreement exists with Minnesota State University-Mankato College of Science, Engineering, and Technology, St. Cloud State University, and the University of Minnesota - Institute of Technology. Students planning to transfer to the University of Minnesota, Twin Cities, should consult the U of M “Liberal Education” transfer guide for choices for the general education requirements in this AS degree or they may want to complete Century’s entire 40 credit Minnesota General Education Transfer Curriculum. See a counselor for assistance with planning for this transfer. Also see the “Quick Links” on the Century Engineering Program webpage including a 2+2 Brochure, Engineering Program Planning guide and FAQ.

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 Telephone Numbers: (651 Area Code)

Admission Office	773-1700	Program Instructor:	
Counseling Office	779-3285	Tim Grebner	779-3332
Financial Aid Office	779-3305	Room: 1379 East	