

## Associate in Applied Science Degree

### Total Number of Credits: 64

**Program Description:** Students will use Computer Aided Drafting and Design (CAD) systems to create engineering drawings. Emphasis is placed on mechanical drafting standards, components and design for manufacturing. Graduates of the program find employment as mechanical drafters, engineering assistants, technicians, and technical sales people.

### Application Requirements:

High School graduate or GED; assessment score placement in RDNG 1000, or completion of RDNG 0090 with a grade of C or higher; minimum assessment score placement in MATH 0070, or completion of MATH 0030 with a grade of C or higher.

### Career/Occupational Requirements: 36 credits

ECAD 1020	Interpreting Engineering Drawings	2
ECAD 1040	Engineering Drafting I	4
ECAD 1060	Materials and Manufacturing Processes	3
ECAD 1070	Introduction to AutoCAD	3
ECAD 2020	Geometric Dimensioning and Tolerancing	2
ECAD 2025	Geometric Dimensioning and Tolerancing Lab	1
ECAD 2030	Descriptive Geometry and Applications	2
ECAD 2040	Engineering Drafting II	4
ECAD 2050	Introduction to Inventor	3
ECAD 2055	Introduction to Pro/E	3
ECAD 2070	Power Transmission Devices	4
MATH 1015	Applied Mathematics	5

### Career/Occupational Electives: 8 credits

Select **8 credits** from the following courses:

ECAD 1025	How to Make Almost Anything	3
ECAD 1050	Introduction to CADKey	3
ECAD 1790	Independent Study	1-3
ECAD 2060	Basic Tooling Fixtures	3
ECAD 2075	Applying Pro/E	3
ECAD 2080	Design Project	2
ECAD 2780	Internship	1-3
ECAD 2790	Special Topics in Engineering CAD	1-3
ENGR 1020	Introduction to Engineering	4
GEOG 1051	Fundamentals of Geographical Information Systems	3

Other electives may be selected with instructor consent, by academic petition.

### General Education/MnTC Requirements: 20 credits

Two (2) credits beyond the minimums are needed to reach 20 credits. See MnTC course list for options.

#### Goal 1 – Communication: 7 credits

ENG 1021	Composition I	4
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Select **ONE** of the following COMM courses:

COMM 1021	Fundamentals of Public Speaking	3
COMM 1031	Interpersonal Communication	
COMM 1041	Small Group Communication	
COMM 1051	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:** Physics 1041- 5 credits, required

**Goal 5 - History/Social and Behavioral Sciences: 3 credits**

**Goal 6 - Humanities and Fine Arts: 3 credits**

**Goals 7- 10 - Three credits in one of these four goals (Fulfilled when COMM course completed.)**

**General Requirements for the AAS 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](http://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.

**Career Information:** Counselors are available in the Counseling and Career Center, Room 2410 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 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.

**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.

**Cost:** In addition to costs of tuition and books, supplies for the program will cost approximately \$50.00. Students have the option to purchase “student versions” of CAD software for \$400.00. These costs are subject to change.

**Important Telephone Numbers: (651 Area Code)**

Admission Office 773-1700  
Counseling Office 779-3285  
Financial Aid Office 779-3305

**Program Instructor:**  
Jeff Jahnke 773-1730  
Office: 1295 East