

# Engineering

## 2009-2010

### Purpose

Currently there is tremendous demand for engineering graduates and the forecast for future engineering employment opportunities is excellent. Engineers possess knowledge of mathematics and science and can apply that knowledge to find creative solutions for the benefit of society. Engineers design systems and products as small as microprocessor circuits to as large as suspension bridges. Engineers have designed nearly every man-made article around you. As an engineer you might work on projects such as designing computer circuitry, enhancing biomedical devices, improving transportation systems, designing fuel-efficient vehicles, or cleaning up toxic waste. The list is endless. Students at Century College can work toward engineering degrees in the areas of aerospace, chemical, civil, computer, electrical, industrial, and mechanical engineering among others.

### Program Overview

The Century College Engineering program is designed to prepare students to qualify for advanced standing in an engineering program at the University of Minnesota (U of M), a college or university within the Minnesota State Colleges and Universities System (MnSCU), or at other regional or national engineering schools. It is usually advantageous to complete both years of the engineering program at Century College before transferring. If you complete the Minnesota Transfer Curriculum (MnTC) while at Century College, you will satisfy all of the lower-division general education requirements at any college or university within MnSCU and at the U of M. In addition, all of Century College's engineering courses transfer within MnSCU and to the U of M.

### Program Options

**Program Name: # of Credits, # of Semesters**

Engineering (AS Degree): 64 cr, 4 sem

### Program Notes

Students entering the Century College Engineering program begin mathematics and physics at the calculus level. New students are encouraged to have four years of college preparatory mathematics and one year of physics in high school. However, Century College does provide preparatory courses for those who do not meet these requirements. As with all transfer programs, careful planning is essential in order to take courses that will directly apply to a specific program. Century College counselors are available to assist incoming students in planning an engineering program.

### Mathematics, Physics, and Engineering Courses:

Math 1081	Single Variable Calculus I
Math 1082	Single Variable Calculus II
Math 2081	Multivariable Calculus
Math 2082	Linear Algebra and Differential Equations
Phys 1081	Introductory Physics I (Mechanics)
Phys 1082	Introductory Physics II (Waves, Electricity, Magnetism)
Engr 1020	Introduction to Engineering
Engr 1080	Statics
Engr 2080	Dynamics
Engr 2085	Deformable Body Mechanics
Engr 2091	Circuits I
Engr 2092	Circuits II
Engr 2095	Introduction to Digital Design

### General Education Courses:

In addition, students completing the AS degree will be required to take 39 credits in the following areas:

English Composition  
Communication  
Science/Mathematics  
History/Social & Behavioral Science  
Humanities/Fine Arts

### Important Telephone Numbers

Admissions Office	(651)773-1700
Counseling & Career Center	(651)779-3285
Financial Aid Office	(651)779-3305
Program Instructor: Tim Grebner	(651)779-3332

### Financial Aid

Financial aid is available to those who are eligible. Students must apply for financial aid early as it can take 6-8 weeks to be processed. Please contact the Financial Aid Office for more information and a free financial aid application.

Policies are as of the publication date and subject to change.

**Check our website for current tuition rates.**



*Thank you for choosing Century College to begin building your future success. We're glad that you are here!*

*As Minnesota's largest two-year community and technical college, Century offers students the state's most comprehensive selection of professional and technical career programs as well as academic transfer options. Century College offers over 60 different career programs.*

*At Century College, our faculty and staff are also committed to assist you in the development of a LifePlan. The GPS LifePlan will be a useful tool to help you navigate your college experience and get you where you want to go.*

*Century College is known for having a nationally respected teaching faculty, friendly and supportive learning environment and affordable tuition. Through Century's strong relationship with the business community, many of our students are offered employment opportunities while still enrolled at Century College. We're here to help you succeed in your career goals.*

*We are confident your experience at Century College will be a rewarding one.*

**Higher Education. Lower Tuition.  
Century College.**

**Welcome!**

## Discover Century's other great Technical and Industrial Career programs.

Engineering CAD Technology  
Facility Systems Technology  
Heating and Air Conditioning  
Auto Body Technology  
Auto Service Technology

Information in this brochure is also available in an alternate format in compliance with ADA requirements. Phone 651-779-3354 or 651-773-1715 TTY for information.



**CenturyCollege**

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1-800-228-1978

**[www.century.edu](http://www.century.edu)**



Century College is an equal opportunity institution and a member of the Minnesota State Colleges and Universities system.

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