

# MECHANICAL ENGINEERING (AS)

Department: Computer Science and Engineering (<https://snow-next.courseleaf.com/schools/natural-science-mathematics/computer-science-engineering/>)

Program Contact: Keith Steurer

Phone: (435) 283-7515

Email: [keith.steurer@snow.edu](mailto:keith.steurer@snow.edu)

Department Webpage: [https://www.snow.edu/academics/science\\_math\\_engineering/index.html](https://www.snow.edu/academics/science_math_engineering/index.html) ([https://www.snow.edu/academics/science\\_math/engineering/](https://www.snow.edu/academics/science_math/engineering/))

Advising Information (<https://snow.edu/offices/advisement/>)

## Program Description

The associate degree in Mechanical Engineering offers foundational training in design, manufacturing, and thermal systems. Students learn principles of mechanics, materials, and CAD software, gaining hands-on experience in labs and projects.

**Note:** The Associate of Pre-Engineering (<https://snow-next.courseleaf.com/programs/preengineering-ape/>) is recommended as the best degree for transfer to a four-year program. It has an advising track for Mechanical Engineering. Students completing the AS on this page will need to take additional credits at their transfer institution to be ready for junior-level engineering classwork.

## Program Outcomes

Students who complete an associate degree in Mechanical and Industrial Engineering should expect the following outcomes from the program:

- Students can solve problems by applying principles of engineering and mathematics.
- Students can acquire and apply new knowledge as needed, using appropriate learning strategies.
- Students have a feasible plan for completing a four-year degree in engineering or computer science.

## Requirements

### Make the Most of Your Time at Snow

The requirements below will earn you an associate degree, but Snow offers other prerequisites that you will need for your bachelor's degree. Students are encouraged to more fully prepare for transfer by completing the suggested plan of study (<https://snow-next.courseleaf.com/programs/mechanical-industrial-engr-as/#suggestedplanofstudytext>).

### AS Requirements

To earn an AS in Mechanical and Industrial Engineering at Snow College, students must complete 60 credits, including the general education requirements (<https://snow-next.courseleaf.com/general-education/>) and the following major requirements.

Code	Title	Hours
ENGR 1300	Engineering Graphics and Design - Mechanical	3
<b>Choose 1</b>		
MATH 1210	Calculus I	
ENGR 1400 & ENGR 1405	Programming Fundamentals and Programming Fundamentals Lab	

### Another Available Degree

While the AS is recommended, students can earn an AA in Mechanical and Industrial Engineering by completing the foreign language requirement (<https://snow-next.courseleaf.com/program-details/aa-requirements/>) as part of their 60 credits.

## Suggested Plan of Study

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENGR 1000	Introduction to Engineering	2
ENGR 1400 & ENGR 1405	Programming Fundamentals and Programming Fundamentals Lab	4
MATH 1210	Calculus I	5
English 1 GE Class ( <a href="https://snow-next.courseleaf.com/general-education/english1/">https://snow-next.courseleaf.com/general-education/english1/</a> )		3
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
ENGR 1300	Engineering Graphics and Design - Mechanical	3
Engineering AS Degree Elective ( <a href="https://snow-next.courseleaf.com/program-details/engineering-classes/">https://snow-next.courseleaf.com/program-details/engineering-classes/</a> )		3
English 2 GE Class ( <a href="https://snow-next.courseleaf.com/general-education/english2/">https://snow-next.courseleaf.com/general-education/english2/</a> )		3
American Institutions GE Class ( <a href="https://snow-next.courseleaf.com/general-education/american-institutions/">https://snow-next.courseleaf.com/general-education/american-institutions/</a> )		3
Engineering AS Degree Elective ( <a href="https://snow-next.courseleaf.com/program-details/engineering-classes/">https://snow-next.courseleaf.com/program-details/engineering-classes/</a> )		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
Fine Arts GE Class ( <a href="https://snow-next.courseleaf.com/general-education/fine-arts/">https://snow-next.courseleaf.com/general-education/fine-arts/</a> )		3
Social Science GE Class ( <a href="https://snow-next.courseleaf.com/general-education/social-science/">https://snow-next.courseleaf.com/general-education/social-science/</a> )		3
Engineering AS Degree Elective ( <a href="https://snow-next.courseleaf.com/program-details/engineering-classes/">https://snow-next.courseleaf.com/program-details/engineering-classes/</a> )		3
Physical Science GE Class ( <a href="https://snow-next.courseleaf.com/general-education/physical-science/">https://snow-next.courseleaf.com/general-education/physical-science/</a> )		3
Engineering AS Degree Elective ( <a href="https://snow-next.courseleaf.com/program-details/engineering-classes/">https://snow-next.courseleaf.com/program-details/engineering-classes/</a> )		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
Engineering AS Degree Elective ( <a href="https://snow-next.courseleaf.com/program-details/engineering-classes/">https://snow-next.courseleaf.com/program-details/engineering-classes/</a> )		3
Elective		4
Life Science GE Class ( <a href="https://snow-next.courseleaf.com/general-education/life-science/">https://snow-next.courseleaf.com/general-education/life-science/</a> )		3
Humanities GE Class ( <a href="https://snow-next.courseleaf.com/general-education/humanities/">https://snow-next.courseleaf.com/general-education/humanities/</a> )		3
Engineering AS Degree Elective ( <a href="https://snow-next.courseleaf.com/program-details/engineering-classes/">https://snow-next.courseleaf.com/program-details/engineering-classes/</a> )		3
<b>Hours</b>		<b>16</b>
<b>Total Hours</b>		<b>60</b>