



**SUNY NIAGARA**  
**Engineering Science, A.S.**  
**Industrial Track**

**Overview**

If you enjoy problem solving and have an interest in design, technology, and advanced materials, the Engineering Science program is for you. It provides a strong foundation in Aerospace, Mechanical, Civil, Chemical, Environmental, or Industrial Engineering. With a few course substitutions, you can also meet SUNY seamless transfer requirements for Computer or Biomedical Engineering. Core courses in mathematics, science and engineering emphasize both theory and practical application.

Designed for transfer into a 4-year institution.

**Tracks**

This is one of five tracks in Aero / Mechanical, Civil, Chemical, Environmental & Industrial

**Careers**

Careers related to Engineering Science:

- Engineer (Design, Manufacturing, Process, Research, Structural, Sustainability, Test)
- Construction Management
- Engineering Mgmt., Project Mgmt.
- Logistics, Operations, Supply Chain Mgmt.
- Patent Attorney, Medical Doctor
- Technical Sales, Marketing
- Entrepreneur, Engineering Consultant

All careers require more education.

**Contact**

**Program Coordinator**

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**Division**

Business & STEM  
 716-614-6410

*Visit full catalog for specific course offerings for each semester:*

<https://sunyniagara.edu/courses/engineering-science-a-s/>

<https://tinyurl.com/4razkz3a>

**Program Requirements**

**First Semester**

**Credits**

CHE 120 - General Chemistry I	4
CHE 111L - General Chemistry I Lab	1
ENG 101 - Writing I	3
ENS 120 - Engineering Data & Applications	3
MAT 120 - Calculus and Analytic Geometry I	4
____ - General Education Elective (DVRS and SOCS OR DVRS and USCV)	3

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**Total Credit Hours:** **18 Cr.**

## Second Semester

ACC 116 – Financial Accounting	3
ENG 102 - Writing II OR	
ENG 103 - Writing for STEM	3
MAT 121 - Calculus and Analytic Geometry II	4
MAT 164 - Introduction to Statistics	3
PHY 171 - Calculus-Based Physics and Mechanics	4
PHY 171L - Calculus-Based Physics and Mechanics Lab	0
<b>Total Credit Hours:</b>	<b>17 Cr.</b>

## Third Semester

ACC 117 – Managerial Accounting	3
CPS 120 – Computer Science I OR	
ENS 110 - Computer Programming for Engineers	4
ENS 217 - Statics	3
MAT 222 - Calculus and Analytic Geometry III	4
PHY 172 - Calculus-Based Physics II	4
PHY 172L - Calculus Based Physics II Lab	0
<b>Total Credit Hours:</b>	<b>18 Cr.</b>

## Fourth Semester

Science Elective or Other Elective	5
ENS 285 - Engineering Circuit Analysis OR	
ENS 218 - Dynamics OR	
ENS 219 - Engineering Mechanics of Materials	3
MAT 223 - Differential Equations	4
____ - General Education Elective (ARTS and HUMN)	3
<b>Total Credit Hours:</b>	<b>15 Cr.</b>

*The information provided is subject to change throughout the academic year. 3/9/2026*