SUNY NIAGARA

Engineering Science, A.S.

Overview

If you have a passion for design, technology, materials, and problem solving, consider enrolling in Engineering Studies. This program provides a broad understanding in the areas of Aerospace, Civil, Mechanical, Environmental, Industrial, and Biomedical Engineering. At the core of the curriculum are mathematics and science-based classes. The application of these classes is utilized at both the theoretical level and hands-on practical experience.

Designed for transfer into a 4-year institution.

Tracks

1. Aerospace, Mechanical, Undecided
2. Civil Engineering
3. Environmental Engineering

Careers

Careers related to your program of study:
- Construction Management
- Engineer
- Logistics
- Operations / Project Management
- Patent Attorney
- Supply Chain Management
- Technical Consulting / Sales

All careers will require more specialized education.

Contact

Program Coordinator
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Division
Business & STEM
716-614-6410

Visit full catalog for specific course offerings for each semester:
www.niagaracc.suny.edu/programs/engs

Program Requirements

First Semester	Credits
MAT 120 - Calculus and Analytic Geometry I	4
CHE 120 - General Chemistry I	4
CHE 111L - General Chemistry I Lab	1
ENG 101 - Writing I	3
ENS 120 - Engineering Data & Applications	3
___ ___ - General Education Elective (ARTS and HUMN)	3
Total Credit Hours:	**18 Cr.**

Second Semester	
ENG 102 - Writing II & Introduction to Literature OR	
ENG 103 - Writing for STEM	3
MAT 121 - Calculus and Analytic Geometry II	4
MET 110 - Engineering Drawing I	2
PHY 171 - Calculus-Based Physics and Mechanics	4
PHY 171L - Calculus-Based Physics and Mechanics Lab	0
___ ___ - General Education Elective (DVRS and SOCS)	3
Total Credit Hours:	**16 Cr.**

Third Semester	
ENS 217 - Statics	3
ENS 283 - Thermodynamics	3
CPS 120 - Computer Science I OR	
ENS 110 - Computer Programming for Engineers	4
MAT 222 - Calculus and Analytic Geometry III	4
PHY 172 - Calculus-Based Physics II	4
PHY 172L - Calculus Based Physics II Lab	0
Total Credit Hours:	**18 Cr.**

Fourth Semester	
MAT 223 - Differential Equations	4
ENS 218 - Dynamics	3
ENS 219 - Engineering Mechanics of Materials	3
ENS 285 - Engineering Circuit Analysis	3
MAT 164 - Introduction to Statistics OR	
MAT 255 - Linear Algebra	3
Total Credit Hours:	**16 Cr.**

The information provided is subject to change throughout the academic year.