



Engineering Science

Program Information


Degree Type: AS

Program Code: EGRS

Degree Worksheet PDF:  [2023_2024_egrs.pdf \[1\]](#)

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EGRS

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SUNY Adirondack's engineering program provides a core curriculum typical of 4-year engineering colleges. Students transfer as juniors to a variety of public and private institutions throughout the U.S. The NYS Two Year Engineering Sciences Association (TYESA) articulation agreement guarantees priority admission to all major public and private engineering schools in New York State (e.g., Binghamton, Clarkson, RIT, RPI, Union). SUNY Adirondack also has formal articulation agreements with select colleges. *High school preparation: Mathematics through calculus & regents chemistry required. Recommended: Physics, computer science, mechanical drawing/CAD.*

Cr.	Course Title	Course Code
1-2	FRESHMAN EXPERIENCE	HRD100 HRD100A or HRD110
3	Introduction to College Writing	ENG101
3	SUNY Gen Ed Communication - Written and Oral ENG 110 Elements of Technical Writing recommended)	ENG102 , ENG103 , ENG104 , ENG105 , ENG106 , ENG107 , ENG108 , ENG109 or ENG110
3	SUNY GEN ED Social Sciences, SUNY GEN ED The Arts, SUNY GEN ED Humanities, or SUNY GEN ED World Languages	
3	SUNY GEN ED Diversity: Equity, Inclusion and Social Justice	ECO202 <i>Microeconomics</i> recommended
4	General Chemistry I	CHM111 (Prereq Required)
3	Introduction to Programming	CIS143 (Prereq Required)
3	Introduction to Engineering	EGR120
4	Engineering Physics I	EGR105 (Prereq Required)
4	Engineering Physics II	EGR106 (Prereq Required)
4	Engineering Physics III	EGR204 (Spring only - Prereq Required)
4	Circuit Analysis	EGR222 (Fall only - Prereq Required)
4	Calculus I	MAT131 (Prereq Required)
4	Calculus II	MAT132 (Prereq Required)
4	Calculus III	MAT231 (Fall only - Prereq Required)
4	Differential Equations and Series	MAT232 (Spring only - Prereq Required)
	Choose 9-10 credits by	



	advisement	
	General Chemistry II	CHM112 (Prereq Required)
	Organic Chemistry I	CHM203 (Fall only - Prereq Required)
	Intermediate Programming in a Windows Environment	CIS144 (Prereq required)
	Data Structures and Objects in C++	CIS243 (Fall only - Prereq Required)
	Digital Logic Design	EGR183 (Spring only - every other year, even years only - Prereq Required)
	Mechanics I - Statics	EGR207 (Fall only - Prereq Required)
	Dynamics	EGR208 (Spring only - Prereq Required)
	Mechanics II - Mechanics of Materials	EGR209 (Spring only - Prereq Required)
64	Minimum credits required for graduation	

Recommended First Year		
First Semester		
1-2	HRD100, HRD100A or HRD110	
3	ENG101	
4	MAT131	
3	EGR120	
3	CIS143	
4	CHM111	
Second Semester		
3	ENG102 - ENG110 (ENG 110 recommended)	
4	MAT132	
4	EGR105	
3	SUNY GEN ED Social Sciences, SUNY GEN ED The Arts, SUNY GEN ED Humanities or SUNY GEN ED World Languages	
0-4	Engineering Core elective (See Note 1)	
Recommended Second Year		
Third Semester		
4	EGR222	
4	MAT231	
4	EGR106	
3-4	Engineering Core elective (See Note 1)	
Fourth Semester		
3	SUNY GEN ED Diversity: Equity, Inclusion and Social Justice	
4	MAT232	
4	EGR204	
3-6	Engineering Core elective (See Note 1)	

NOTES

1. See Core Engineering lists for course requirements. Substitutions can be made to Core coursework depending upon transfer requirements of 4-year schools.
2. EGR 183 is offered even years - Spring only

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Links:



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[2] https://catalog.sunyacc.edu/sites/catalog.sunyadk.com/files/degreeworksheets/2023/2023_2024_egrs.pdf