



# 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	<a href="#">HRD100</a> <a href="#">HRD100A</a> or <a href="#">HRD110</a>
3	Introduction to College Writing	<a href="#">ENG101</a>
3	SUNY Gen Ed Communication - Written and Oral ENG 110 Elements of Technical Writing recommended)	<a href="#">ENG102</a> , <a href="#">ENG103</a> , <a href="#">ENG104</a> , <a href="#">ENG105</a> , <a href="#">ENG106</a> , <a href="#">ENG107</a> , <a href="#">ENG108</a> , <a href="#">ENG109</a> or <a href="#">ENG110</a>
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	<a href="#">ECO202</a> <i>Microeconomics</i> recommended
4	General Chemistry I	<a href="#">CHM111</a> (Prereq Required)
3	Introduction to Programming	<a href="#">CIS143</a> (Prereq Required)
3	Introduction to Engineering	<a href="#">EGR120</a>
4	Engineering Physics I	<a href="#">EGR105</a> (Prereq Required)
4	Engineering Physics II	<a href="#">EGR106</a> (Prereq Required)
4	Engineering Physics III	<a href="#">EGR204</a> (Spring only - Prereq Required)
4	Circuit Analysis	<a href="#">EGR222</a> (Fall only - Prereq Required)
4	Calculus I	<a href="#">MAT131</a> (Prereq Required)
4	Calculus II	<a href="#">MAT132</a> (Prereq Required)
4	Calculus III	<a href="#">MAT231</a> (Fall only - Prereq Required)
4	Differential Equations and Series	<a href="#">MAT232</a> (Spring only - Prereq Required)
	<b>Choose 9-10 credits by</b>	



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

<b>Recommended First Year</b>		
<b>First Semester</b>		
1-2	HRD100, HRD100A or HRD110	
3	ENG101	
4	MAT131	
3	EGR120	
3	CIS143	
4	CHM111	
<b>Second Semester</b>		
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)	
<b>Recommended Second Year</b>		
<b>Third Semester</b>		
4	EGR222	
4	MAT231	
4	EGR106	
3-4	Engineering Core elective (See Note 1)	
<b>Fourth Semester</b>		
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

**Source URL:** <https://catalog.sunyacc.edu/programs/engineering-science>

**Links:**



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[2] [https://catalog.sunyacc.edu/sites/catalog.sunyadk.com/files/degreeworksheets/2023/2023\\_2024\\_egrs.pdf](https://catalog.sunyacc.edu/sites/catalog.sunyadk.com/files/degreeworksheets/2023/2023_2024_egrs.pdf)