Engineering Science AS (EGRS)

Catalog: 2022-2023					Effective Date: 9/01/2015			

CR	COURSE	COURSE TITLE	SUNY GEN ED	TR	SEMESTER			
1-2	HRD 100, HRD 100A or HRD 110	FRESHMAN EXPERIENCE						
3	ENG 101	*Introduction to College Writing*	GEBC					
3	SUNY GEN ED Basic Communication ENG 102, ENG 103, ENG 104, ENG 105, ENG 106, ENG 107, ENG 108, ENG 109 or ENG 110	ENG 110 *Elements of Technical Writing* recommended	GEBC					
3	SUNY GEN ED Social Science		GESS					
4	CHM 111 (Prereq Required)	*General Chemistry I*	GENS					
3	CIS 143 (Prereq Required)	*Introduction to Programming*						
3	EGR 120	*Introduction to Engineering*						
4	EGR 105 (Prereq Required)	*Engineering Physics I*	GENS					
4	EGR 106 (Prereq Required)	*Engineering Physics II*	GENS					
4	EGR 204 (Spring only - Prereq Required)	*Engineering Physics III*	GENS					
4	EGR 222 (Fall only - Prereq Required)	*Circuit Analysis*						
4	MAT 131 (Prereq Required)	*Calculus I*	GEMA					
4	MAT 132 (Prereq Required)	*Calculus II*	GEMA					
4	MAT 231 (Prereq Required)	*Calculus III*						
4	MAT 232 (Spring only - Prereq Required)	*Differential Equations and Series*						
2	Any PED activity course, AVS 101, AVS 102, BIO 115, HED 103, HED 104, HED 108, NTR 101, NTR 111, PED 105, PED 106, PED 206 or PED 211 (Note: PED 210 and PED 212 do not fulfill this requirement)	HEALTH AND WELLNESS						
3	SUNY GEN ED The Arts, SUNY GEN ED Foreign Language or SUNY GEN ED Humanities		GETA GEFL GEHU					
	Choose 9-13 credits from one Core area							
	SUNY Chemical Engineering /Biomedical Engineering Core							
4	CHM 112 (Prereq Required)	*General Chemistry II*						
4	CHM 203 (Fall only - Prereq Required)	*Organic Chemistry I*						
3-4	Core elective by advisement							
	SUNY Electrical Engineering/Computer Engineering Core							
3	EGR 183 (Fall only - Prereq Required)	*Digital Logic Design*						
7-8	Choose 2 (Prereq Required) from: CIS 144, CIS 243 or EGR 223							
Note: Please review the back of this form for remaining degree requirements.								

	SUNY Mechanical Engineering/Aerospace Engineering/Civil Engineering/ Undecided Core							
3	EGR 207 (Fall only - Prereq Required)	Mechanics I – Statics						
3	EGR 208 (Spring only - Prereq Required)	Dynamics						
3	EGR 209 (Spring only - Prereq Required)	Mechanics II – Mechanics of Materials						
66	Minimum credits required for graduation							

Notes on Engineering Science AS (EGRS)

❖ **COURSE PREREQUISITES:**

See **http://catalog.sunyacc.edu/coursedescriptions/catalog**

❖ **RECOMMENDED SEQUENCE:**

FIRST YEAR

First Semester		Second Semester	
1-2	HRD 100, HRD 100A or HRD 110		
3	ENG 101	3	ENG 102 – ENG 110 (ENG 110 recommended)
4	MAT 131	4	MAT 132
3	EGR 120	4	EGR 105
3	SUNY GEN ED Social Science	3	CIS 143
4	CHM 111	3-4	Engineering Core elective (See Note 1)

SECOND YEAR

Third Semester		Fourth Semester	
4	EGR 222	1	Health and Wellness
4	MAT 231	4	MAT 232
4	EGR 106	4	EGR 204
3-4	Engineering Core elective (See Note 1)	3-4	Engineering Core elective (See Note 1)
1	Health and Wellness	3	SUNY GEN ED The Arts, SUNY GEN ED Humanities or SUNY GEN ED Foreign Languages

NOTES:

1. See Core Engineering lists for course requirements. Substitutions can be made to Core coursework depending upon transfer requirements of 4-year schools.

❖ **DEFINITION OF COURSE REQUIREMENTS:** See http://catalog.sunyacc.edu/academics/degreerequirements

❖ **FINANCIAL AID RECIPIENTS:** A student **must** choose courses that are within their degree program. Students are encouraged to meet with their assigned academic advisor for any questions about course selection and degree program requirements. Please visit the Office of Financial Aid for any aid-related questions.

❖ **SUNY GEN ED KNOWLEDGE AREAS:** See http://catalog.sunyacc.edu/academics/generaleducation

- ❖ Mathematics (GEMA)
- ❖ Natural Sciences (GENS)
- ❖ Social Sciences (GESS)
- ❖ American History (GEAH)
- ❖ Western Civilization (GEWC)
- ❖ Other World Civilization (GEOC)
- ❖ Humanities (GEHU)
- ❖ The Arts (GETA)
- ❖ Foreign Languages (GEFL)
- ❖ Basic Communication (GEBC)