Engineering Science, A.S.

[AS-ENR; CIP Code 14.0101]

Associate in Science (A.S.) — Transfer

The goal of this program is to provide the first two years of an Engineering Science baccalaureate degree program for students who wish to transfer to a four-year institution as an Engineering Science major.

Program Learning Outcomes

Students who have completed the program will be able to:

- Analyze and understand engineering designs
- Deliver an effective and informative professional engineering presentation
- Demonstrate an understanding of engineering materials used in different fields

Program Notes

[1] Students planning to transfer to Rowan University should take the following courses. A maximum of 5 program electives selected from the ones listed below are required for the A.S. degree. Rowan University may require additional courses not offered at this institution.
[2] Students wishing to take additional program electives are encouraged to declare a Secondary Program of study by enrolling in an Engineering Science Certificate of Achievement. Financial aid will NOT cover the additional program electives UNLESS you are enrolled in a Certificate of Achievement.
[3] Students should review requirements at their transfer institutions. ENR 103, ENR 201, ENR 202 may not transfer to some institutions, please see an advisor for a graduation variance.

Program Contact

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FIRST YEAR — Fall Semester

❑ CHM 111 General Chemistry I	4
❑ CSC 205 Programming in C++	4
❑ ENG 101 English Composition I	3
❑ MAT 108 Calculus I	4
❑ ENR 102 First Year Engineering Clinic I	2
	17

Spring Semester

❑ CHM 112 General Chemistry II or ___ ___ Program Elective[1]	3–4
❑ PHY 201 Physics I (calculus-based)	4
❑ ENR 103 First Year Engineering Clinic II[3]	2
❑ ENR 207 Engineering Materials or ___ ___ Program Elective[1]	3–4
❑ MAT 122 Calculus II	4
	16–18

SECOND YEAR — Fall Semester

❑ ENG 102 English Composition II	3
❑ ENR 201 Sophomore Clinic I[3]	1
❑ MAT 221 Calculus III	4
❑ HPE ___ Health and Physical Education elective or ___ ___ Free Elective[1] or ___ ___ Program Elective[1]	1–4
❑ PHY 202 Physics with Calculus II or ___ ___ Program Elective[1]	3–4
❑ ___ ___ Humanities elective or ___ ___ Social Science elective	3
	15–18

Spring Semester

❑ MAT 205 Differential Equations	4
❑ ENR 202 Sophomore Clinic II[3]	1
❑ HPE ___ Health and Physical Education elective or ___ ___ Free Elective[1] or ___ ___ Program Elective[1]	1–4
❑ ___ ___ Humanities elective	3
❑ PHI 104 Ethics	3
	12–15

TOTAL MINIMUM CREDITS: 60

Program Electives[1, 2]

Mechanical[2]	Electrical/ Computer[2]	Civil[2]	Chemical[2]	Biomedical[2]
PHY 202	PHY 202	MAT 202	CHM 112	CHM 112
ENR 207	MAT 202	SPE 101	MAT 202	PHY 202
MAT 202	SPE 101	GEO 115	SPE 101	MAT 202
SPE 101	CSC 220	ENR 207	CHM 201	SPE 101
ENR 211	ENR 108	ENR 211	CHM 202	BIO 101
ENR 212	ENR 218	ENR 212		
ENR 213		ENR 213		
		CET 108		
		DFT 103		