ENGINEERING: TRANSFER PLAN (AES)

Program website (https://www.harpercollege.edu/academics/stem/engineering/engineering-transfer.php)

Program Overview

This sample transfer planning guide meets the requirements of the Associate in Engineering Science degree and follows the Illinois Articulation Initiative engineering baccalaureate major recommendations. Students should have a strong background in mathematics and the physical sciences. Students choosing to follow this sample plan need to choose the major of Associate in Engineering Science if needing financial aid. Transfer institution requirements may vary - students should check individual college/university requirements before completing the sample plan as outlined. Baccalaureate admission may be competitive. Completion of these courses alone does not guarantee admission.

Completion of the Associate in Engineering Science (AES) degree does not fulfill the requirements of the Illinois General Education Core Curriculum. After transfer, AES students will need to complete the general education requirements of the institution to which they transfer.

Program Requirements

Course	Title	Hours
First Semester		
CHM 121	General Chemistry I	5
EGR 100	Introduction to Engineering	1
ENG 101	Composition I	3
MTH 200	Calculus I	5
Social and Behavioral Science [1, 2]		3
	Hours	**17**
Second Semester		
CSC 121	Computer Science I	4
ENG 102	Composition II	3
MTH 201	Calculus II	5
PHY 201	General Physics I-Mechanics	5
	Hours	**17**
Third Semester		
MTH 202	Calculus III	5
PHY 202	General Physics II-Electricity and Magnetism	5
Humanities and Fine Arts [2]		3
Computer Science [3]		1-4
	Hours	**14-17**
Fourth Semester		
MTH 212	Differential Equations	3
PHY 203	General Physics III-Thermal and Quantum Physics	5
Computer Science [4]		6-10
	Hours	**14-18**
	Total Hours	**62-69**

1 ECO 211 is recommended.

2 Refer to the Associate in Engineering Science degree for approved courses in this category. One course from Humanities and Fine Arts or from Social and Behavioral Sciences must meet the World Cultures and Diversity graduation requirement for the Associate in Engineering Science degree.

3 CSC 122 is recommended for Electrical, Computer, and Computer Science. Engineering. EGR 105 is recommended for all specializations. EGR 120 is recommended for Aerospace, Civil, Environmental, Industrial, Mechanical, and Systems. EGR 210 is recommended for Aerospace, Civil, Environmental, Industrial, Mechanical, Nuclear, and Systems

4 CSC 122 is recommended for Electrical, Computer, and Computer Science. CSC 214 and CSC 216 are recommended for Computer Science. Engineering. EGR 110 is recommended for Electrical, Computer, Industrial, and Systems. EGR 120 is recommended for Aerospace, Civil, Environmental, Industrial, Mechanical, and Systems. EGR 211 is recommended for Aerospace, Civil, Environmental, Industrial, Mechanical, Nuclear, and Systems. EGR 212 is recommended for Civil, Environmental, Industrial, Mechanical, and Systems. EGR 240 is recommended for Aerospace, Chemical, Civil, Mechanical, and Nuclear. Mathematics. MTH 203 is recommended for Aerospace, Civil, Computer, Electrical, Environmental, Industrial, Materials, Mechanical, Nuclear, and Systems. MTH 220 is recommended for Computer Science

- EGR 265 is offered in the summer term, for students to take after completing their fourth semester. Recommended for Aerospace, Materials, Mechanical, and Nuclear. For other engineering majors not listed above, please consult with the transfer institution and your academic advisor for specialty course recommendations.
- First-Year Seminar (FYS) course
- Check transfer institution requirements