ASSOCIATE IN ENGINEERING SCIENCE



A.E.S. Degree

Minimum 62 hours

See www.iTransfer.org • Minimum 2.0 OGPA • Major Code: DAES

Bachelor's engineering programs are highly structured to meet the standards established by the Accreditation Board of Engineering and Technology (ABET) required for candidates seeking Illinois registration as a professional engineer. Students are strongly encouraged to complete the Associate in Engineering Science degree prior to transfer. To transfer as a junior into a bachelor's engineering program, students must complete a minimum of 60 semester hours up to a maximum of 68 hours, including all of the essential prerequisite courses listed below. Students with fewer than 68 semester hours at transfer are not likely to earn the bachelor's degree within two years after transfer.

Students admitted to the program must meet the state's high school course requirements: 4 years English, 3 years in math, science, and social studies. A fourth year of math is recommended. Students are advised that admission to senior institutions is highly competitive and that completion of the courses alone does not guarantee admission.

General Education Core Courses

General education courses are described in the Illinois General Education Core Curriculum. Since completion of this engineering curriculum does not fulfill the requirements of the Illinois General Education Core Curriculum, students will need to complete the general education requirements of the institution to which they transfer.

*Students are encouraged to select at least one course in either the humanities/fine arts or the social/behavioral sciences that emphasizes non-Western cultures or minority cultures within the United States. If two courses are selected in a field, a two-semester sequence in the same discipline is recommended.

COMMUNICATIONS: 6 semester hours required (2 courses)					ESSENTIAL PREREQUISITE COURSES: 36 semester hours	
Students must successfully complete courses with a grade of A, B, or C. ENG 121-3 (C1 900) Rhetoric & Composition I ENG 122-3 (C1 901R) Rhetoric & Composition II HUMANITIES AND FINE ARTS: 0-9 semester hours (up to 3 courses) Area 1 ART 121-3 (F2 900) Art Appreciation					PHYSICAL & LIFE SCIENCES Mathematics: 18 hours (Calculus I, II, III) MATH 162-5, MATH 221-5, MATH 222-5, MATH 225-3 Differential Equations Chemistry: CHEM 121-5, 5 semester hours Calculus-Based Physics for Engineers I & II; (with lab)	
	ART ART COM MUS MUS THTR	222-3 223-3 128-3 121-3 126-3 121-3	(F2 902) (F2 905) (F1 900) (F1 904)	Prehistory to Medieval Art Renaissance to Contemporary Art Film Appreciation Music Appreciation Intro to American Music Introduction to Theater	PHYS 221-5, PHYS 222-5, 10 semester hours Computer Programming: (structured modern language) MATH 165-3, 3 semester hours ENGINEERING SPECIALTY COURSES: 14 semester hours CHEM 122-5 General Chemistry & Analysis II GRAP 121-3 Engineering Graphics 1	
One cour			(H3 902) (H3 906) (H3 907) (H3 914) (H3 915) (H4 900) (H4 906) (H4 904) (HS 904) EIENCES: 0-9	Introduction to Drama World Literature Modern Literature American Literature II Intro to Philosophy Fundamentals of Logic Fundamentals of Ethics Comparative Religions semester hours (up to 3 courses) ea 1	GRAP 121-3 Engineering Graphics 1 HYS 241-3 Statistics HYS 242-3 Dynamics Consult the college catalog of the college or university you are transferring to for engineering specialty courses required for your major. See a counselor for professional guidance. Students should select courses in consultation with an engineering advisor and should decide on their engineering specialty and their preferred transfer school at the beginning of the sophomore year (at 30 semester hours) since engineering course selection varies by specialty and school. Usually, a grade of C or better is required for a course to fulfill a degree requirement. Since admission is very competitive, completion of the courses alone does not guarantee admission.	
Area 2	ECE HIST PSYC PSYC SOC SOC HIST HIST HIST	141-3 161-3 121-3 221-3 121-3 221-3 121-3 122-3 141-3	(S6 903) (S2 923D) (S6 900) (S6 903) (S7 900) (S7 902) (S2 902) (S2 903) (S2 901N)	Child Development Black American History Intro Psychology Child Psychology Introductory Sociology The Family in Society Western Civilization to 1648 Western Civilization from 1648 Latin American History	12 hours General Education Core 14 hours Engineering Specialty Courses 36 hours Essential Prerequisite Courses 62 Total Semester Hours Minimum for A.E.S. degree	
<u>Area 3</u>	HIST HIST ECON ECON GOVT GOVT	241-3 242-3 121-3 122-3 121-3 226-3	,	American History I American History II Macroeconomics Microeconomics American Government Intro International Relations		