

## Associate in Engineering Science

### THE PROGRAM

To transfer as a junior into a baccalaureate engineering program, students must complete a minimum of 64 credit hours from the list below, including prerequisite courses. Since admission is highly competitive, completion of the courses listed below does not guarantee admission to engineering programs at four-year institutions. Usually, a grade of “C” or better is required for a course to fulfill a degree requirement. Students should decide on their engineering specialty and their transfer school no later than the beginning of the sophomore year. Since engineering course selections vary by specialty and school, students should select their courses in consultation with an engineering advisor at Kishwaukee College.

Completion of this engineering curriculum does not fulfill the requirements of the Illinois Articulation Initiative General Education Core Curriculum. Students will need to complete the general education requirements of the institution to which they transfer.

A minimum of 64 credit hours are required for the Associate in Engineering Science degree.



# Associate in Engineering Science

## COMMUNICATIONS - 6 CREDIT HOURS

ENG 103	Composition I	(3)
ENG 104	Composition II	(3)
COM 100	Oral Communication	(3)

## SOCIAL/BEHAVIORAL SCIENCES-6 CREDIT HOURS

ANT 120	Introduction to Anthropology	(3)
ANT 203	Introduction to Archaeology	(3)
ANT 220	Introduction to Cultural Anthropology	(3)
ANT 240	Physical Anthropology	(3)
ECO 160	Introduction to Economics	(3)
ECO 260	Principles of Macroeconomics	(3)
ECO 261*	Principles of Microeconomics	(3)
GEO 202	Regional World Geography	(3)
PLS 140	Introduction to American Government	(3)
PLS 210	International Relations	(3)
PLS 240	State and Local Government	(3)
PLS 250	Intro to Comparative Foreign Governments	(3)
PSY 102	Introduction to Psychology	(3)
PSY 225	Psychology of Childhood and Adolescence	(3)
PSY 280	Life-Span Development	(3)
PSY 286	Social Psychology	(3)
SOC 170	Introduction to Sociology	(3)
SOC 200	Race and Ethnic Relations	(3)
SOC 219	Marriage and Family	(3)
SOC 283	Social Problems	(3)

\*ECO 261 can fulfill speciality course elective or general education but not both

## HUMANITIES/FINE ARTS - 6 CREDIT HOURS

### HUMANITIES

ENG 201	British Literature: Middle Ages - 1800	(3)
ENG 202	British Literature: 1800 to Present	(3)
ENG 205	Introduction to Shakespeare	(3)
ENG 206	Introduction to Fiction	(3)
ENG 211	American Literature: Colonial Period to 1865	(3)
ENG 212	American Literature: 1865 to Present	(3)
ENG 216	Introduction to Poetry	(3)
ENG 217	Introduction to Drama	(3)
ENG 283	Images of Women	(3)
ENG 286	Literature and Film	(3)
ENG 288	American Ethnic Literature	(3)
ENG 292	Non-Western Literature in English	(3)
ENG 293	Introduction to Latin American Literature	(3)
FRN 202	Intermediate French II	(3)
GER 202	Intermediate German II	(3)
HIS 130	History of Western Civilization to 1500	(3)
HIS 131	History of Western Civilization 1500-1815	(3)
HIS 132	History of Western Civilization 1815 to Present	(3)
HIS 172	World History to 1500	(3)
HIS 220	United States History to 1877	(3)
HIS 222	United States History Since 1877	(3)
HUM 119	Humanities I	(3)
HUM 129	Humanities II	(3)
HUM 150	Introduction to Film Appreciation	(3)
PHL 101	Introduction to Philosophy	(3)
PHL 103	Introduction to Logic	(3)
PHL 198	World Religions	(3)
PHL 200	Ethics	(3)

SPA 202	Intermediate Spanish II	(3)
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## FINE ARTS

ART 282	Introduction to Visual Arts	(3)
ART 291	History of Art I	(3)
ART 292	History of Art II	(3)
ART 294	History of Photography	(3)
MUS 130	Survey of American Music	(3)
MUS 220	Music Appreciation	(3)
MUS 222	Exploring Non-Western Culture Through Music	(3)
THE 203	Introduction to Theater	(3)

## MATHEMATICS - 5 CREDIT HOURS

MAT 229	Calculus and Analytic Geometry I	(5)
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## PHYSICAL SCIENCE - 5 CREDIT HOURS

PHY 260	Physics for Science and Engineering I	(5)
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## II. MAJOR RECOMMENDATION - 21 CREDIT HOURS

CHE 210	General Chemistry I	(5)
MAT 230	Calculus and Analytic Geometry II	(4)
MAT 231	Calculus and Analytic Geometry III	(4)
MAT 260	Differential Equations	(3)
PHY 260	Physics for Science and Engineering I	(5)

## III. ENGINEERING SPECIALITY COURSES - 13 CREDIT HOURS

In meeting the 13 hours of engineering specialty courses the IAI recommends the following if a student is interested in:

### CHEMICAL ENGINEERING

CHE 211	General Chemistry II	(5)
CHE 270	Organic Chemistry I	(3)
CHE 272	Organic Chemistry Laboratory I	(2)
CHE 271	Organic Chemistry II	(3)
CHE 273	Organic Chemistry Lab II	(2)
EGR 280	Mechanics of Materials	(3)

### CIVIL ENGINEERING

EGR 270	Statics	(3)
EGR 272	Dynamics	(3)

### COMPUTER ENGINEERING

CIS 150	C++ Programming I	(3)
CIS 250	C++ Programming II	(3)

### ELECTRICAL ENGINEERING

ECO 261	Principles of Microeconomics	(3)
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### INDUSTRIAL ENGINEERING

EGR 270	Statics	(3)
EGR 272	Dynamics	(3)
EGR 280	Mechanics of Materials	(3)
ECO 261*	Principles of Microeconomics	(3)

### MECHANICAL ENGINEERING

EGR 270	Statics	(3)
EGR 272	Dynamics	(3)
EGR 280	Mechanics of Materials	(3)

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