



John A. Logan College

Associate in Engineering Science Degree in Civil Engineering

Transfer Curriculum AES 0096
Associate in Engineering Science:
66-67 Hrs. Min.
Major Code: 1.1 1401801
Effective Date: Fall 2020

GENERAL EDUCATION (IAI GECC, 27-39 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 27 to 39 credit hours from the following five areas: communication; mathematics; physical and life sciences; humanities; and social and behavioral sciences. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

FIRST SEMESTER (FALL)

Dept.	No.	Hrs.	Grade	
MAT	131	Calculus I	5	_____
EGR	101	Engineering Graphics <u>or</u> Elective***	3	_____
ENG	101	English Composition I	3	_____
CHM	151	Chemical Principles	5	_____
ORI	100	College 101	1	_____
			17	

Fall Only Courses:

EGR 101
CHM 201
CPS 215
MAT 202
PHY 201
PHY 206

Spring Only Courses:

CHM 202
CPS 206
MAT 205
PHY 202
PHY 203
PHY 214/224

*Recommended Social Science electives: ANT 111, ANT 202, ANT 216, GEO 112, SOC 215. For other IAI Social Science Electives, see below.

SECOND SEMESTER (SPRING)

Dept.	No.	Hrs.	Grade	
MAT	201	Calculus II	5	_____
PHY	205	University Physics I	5	_____
CPS	206	Computer Science I <u>or</u> CHM 152 Chemical Principles w/ Qualitative Analysis	4-5	_____
ENG	102	English Composition II	3	_____
			17-18	

**Recommended Humanities/Fine Arts Electives: HIS 103, HIS 104, HIS 213, LIT 284, LIT 295, PHL 200. For other IAI Humanities, see below.

***Choose electives based on your chosen transfer institution requirements.

IAI INFORMATION: This guide follows the guidelines established by the IAI Engineering major Panel for an Associates in Engineering Science Degree. This guide is not designed to complete the full IAI GECC component. You will need to fulfill the remaining IAI GECC courses at your transfer institution.

IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291
Literature: LIT 275
Music: MUS 105, 225
Theater: THE 113

IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202
History: HIS 101, 102, 213
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295
Philosophy: PHL 111, 121, 131, 200, 260

THIRD SEMESTER (FALL)

Dept.	No.	Hrs.	Grade	
MAT	202	Calculus III	3	_____
PHY	206	University Physics II	5	_____
PHY	201	Statics	3	_____
ECO	201	Macroeconomics <u>or</u> Social Science Elective*	3	_____
		Humanities/Fine Arts Elective**	3	_____
			17	

IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240
Economics: ECO 201, 202
Geography: GEO 112
History: HIS 103, 104, 201, 202
Political Science: PSC 131, 211, 212, 213, 289
Psychology: PSY 132, 200, 203, 262
Sociology: SOC 133, 215, 263, 264

FOURTH SEMESTER (SPRING)

Dept.	No.	Hrs.	Grade	
MAT	205	Differential Equations	3	_____
PHY	202	Dynamics	3	_____
PHY	203	Mechanics of Materials	3	_____
ECO	202	Microeconomics <u>or</u> Social Science Elective*	3	_____
		IAI Life Science Elective <u>or</u> Elective***	3-4	_____
			15-16	

IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B
Life Science: SCI 215

***Please see your advisor for possible specific four-year university transfer guides.**

ARTICULATION NOTES: Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

IAI ENGINEERING MAJOR PANEL INFORMATION

Take EGR 101 (IAI EGR 941), PHY 201 (EGR 942), PHY 202 (EGR 943), PHY 203 (EGR 945).
Take MAT 131 (MTH 901), MAT 201 (MTH 902), MAT 202 (MTH 903) and MAT 205 (MTH 912). Take CHM 151 (CHM 911), PHY 205 (PHY 911), PHY 206 (PHY

912) and CPS 206 (CS 911) and ECO 202 (S3 902). NOTE: If a second course is taken in the Social IAI GECC Social Science area, a two course sequence is recommended. Take also ECO 201 (S3 901)

SIUC TRANSFER INFORMATION

SIUC offers a B.S. degree in Civil Engineering and Civil Engineering with a specialization in Environmental Engineering.

Take ENG 101/102(ENGL 101/102), MAT 131 (MATH 150), COM 115 (CMST 101), ECO 202 (ECON 240) and BIO 225 (BIOL 202). Take CHM 151 (CHEM200/201), CHM 152 (CHEM 210), PHY 205 (PHYS 205A/255A), PHY 206 (PHYS 205B/225B), MAT 201 (MATH250), MAT 202 (MATH 251) and MAT 205 (MATH 305). Take PHY 201 (ENGR 250), PHY 202 (ENGR 261) and PHY 203 (ENGR 350A).

SIUE TRANSFER INFORMATION

SIUE offers a B.S degree in Civil Engineering

Take ENG 101/102 (ENG 101/102), COM 116 (ACS 103), MAT 131 (MATH 150), MATH 201 (MATH 152), MAT 202 (MATH 250) and MAT 205 (MATH 305). Take BIO 100 or 101 or 102 or 105 (to satisfy a BREATH LIFE SCIENCE-BLS requirement). Take PHY 205 (PHYS 151L), PHY 206 (PHY 152L), EGR 101 (CE 204), PHY 201 (CE 240), PHY 203 (CE 242), PHY 202 (ME 262), ECO 201 (ECON 111) and CPS 206 (CS 140).

CHEM 131, CHEM 135, PHYS 141, PHYS 142 and CE 206 are also required but an equivalent at JALC is currently not offered/articulated.

UIUC TRANSFER INFORMATION

UIUC offers a B.S. in Civil Engineering

For admission, students are expected to have a minimum GPA of 3.00 (A= 4.00). The average GPA for Civil Engineering applicants was 3.86 for the fall 2019 semester.

Take ENG 101/102 (RHET 105), CHM 151 (CHEM 102/103), CHM 152 (CHEM 104/105), MAT 131 (MATH 220), PHY 205(PHYS 211), ECO 202 (ECON 102) or ECO 201 (ECON 103) and CPS 206 (CS 101).

Take MAT 202 (MATH 241 with the completion of a bridge course at UIUC- MATH 292), MAT 221 (MATH 225), MAT 205 (MATH 284), PHY 206 (PHYS 212), PHY 201 (TAM 211), PHY 202 (TAM 212), PHY 203 (TAM 251) and CPS 206 (CS 101).

To satisfy a graduation requirement, students must complete a single foreign language through the third level (FRE 201, GER 201 OR SPN 201). This is not a requirement for admission.

OTHER

Of the Illinois Public Senior Institutions, UIC also offers a Civil Engineering degree program.