



John A. Logan College

Associate in Engineering Science Degree in Chemical Engineering

Transfer Curriculum AES 0096
Associate in Engineering Science:
66-67 Hrs. Min.
Major Code: 1.1 140701
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	_____
ENG	101	English Composition I	3	_____
CHM	151	Chemical Principles	5	_____
ECO	202	Microeconomics		
		<u>or</u> Social Science Elective*	3	_____
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.

**Recommended Humanities/Fine Arts Electives: HIS 103, HIS 104, HIS 213, LIT 284, LIT 295, PHL 121, PHL 200. For other IAI Humanities, see below.

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

SECOND SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	201	Calculus II	5	_____
PHY	205	University Physics I	5	_____
CHM	152	Chemical Principles with Qualitative Analysis	5	_____
ENG	102	English Composition II	3	_____
			18	

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.

THIRD SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	202	Calculus III	3	_____
PHY	206	University Physics II	5	_____
CHM	201	Organic Chemistry I	5	_____
ECO	201	Macroeconomics <u>or</u> Social Science Elective*	3	_____
			16	

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

FOURTH SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	205	Differential Equations	3	_____
CHM	202	Organic Chemistry II	5	_____
CPS	206	Computer Science I <u>or</u> Elective***	4	_____
		IAI Life Science Elective <u>or</u> Elective***	3-4	_____
			15-16	

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

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 CHM 152 (IAI CHM 912), CHM 201 (CHM 913) and CHM 202 (CHM 914).
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).

SELECT one IAI GECC LIFE SCIENCE course. Also take ECO 202 (S3 902). If two courses are selected in this GECC area, a two course sequence in the same discipline is recommended (take ECO 201)

UIUC TRANSFER INFORMATION

UIUC offers a degree in Chemical and Biomolecular Engineering housed in the College of Liberal Arts and Sciences. A grade point average of 3.20 or higher (A=4.00) is required for admission. In addition applicants are considered on a space available basis.

Foreign Language through the third level (FRE, GER or SPN 201) is required as graduation requirement. Take ENG 101/102 (RHET 105), MAT 131 (MATH 220), MAT 201 (MATH 231), MAT 202 (UIUC bridge course of MATH 292 is required for MATH 241 credit), PHY205 (PHYS 211), PHY206 (PHYS 212) and CPS 206 (CS 101).

CHEM 202, 203, 204 205, 236 and CHEM 237 and MATH 285 and PHYS 214 are required AND recommended prior to transfer but equivalents are not available at JALC.

UIC TRANSFER INFORMATION

UIC offers a BS degree in Chemical Engineering

Take ENG 101 (ENGL 160), ENG 102 (ENGL 161), MAT 131(MATH 180), MAT 201 (MATH 181), MAT 202 (MATH 210), MAT 205 (MATH 220), PHY 205 (PHYS 141), PHY 206 (PHYS 142), CHM 151 (CHEM 122/123), CHM 152 (CHEM 124. 125), CHM 201 (CHEM 232/233) and CHM 202 (CHEM 234). Take PHY 215 (ECE 210) and CPS 206 (CS 109).

CHEM 222, CHE 201, 205 and 210 are also required but course equivalents are not offered at JALC