## Associate in Engineering Science Degree in Chemical Engineering

**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.

### FIRST SEMESTER (FALL)

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<th>Dept.</th>
<th>No.</th>
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<tr>
<td>MAT</td>
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<td>5</td>
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<tr>
<td>ENG</td>
<td>101</td>
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<td>CHM</td>
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<td>ECO</td>
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### SECOND SEMESTER (SPRING)

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<td>PHY</td>
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<tr>
<td>CHM</td>
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<tr>
<td>ENG</td>
<td>102</td>
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### THIRD SEMESTER (FALL)

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<tr>
<td>PHY</td>
<td>206</td>
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### FOURTH SEMESTER (SPRING)

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<tr>
<td>MAT</td>
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<tr>
<td>CHM</td>
<td>202</td>
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<td>CPS</td>
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<td>4</td>
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<tr>
<td>IAI Life Science Elective</td>
<td>3-4</td>
<td>15-16</td>
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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.

**Fall Only Courses:**
- EGR 101
- CHM 202
- CHM 201
- CPS 215
- MAT 202
- PHY 201
- PHY 206

**Spring Only Courses:**
- CHM 202
- CPS 206
- MAT 205
- PHY 202
- PHY 203
- PHY 205

*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.

### 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, 264, 280, 281, 284, 295
- Philosophy: PHL 111, 121, 131, 200, 260

**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, 223
- Political Science: PSC 131, 211, 212, 289
- Psychology: PSY 132, 200, 203, 262
- Sociology: SOC 133, 220, 221, 263, 264

**IAI Life Science Electives:**
- Biology: BIO 100, 101, 105, 225
- Interdisciplinary: SCI 101 with SCI 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 Bimolecular 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), PHY 205 (PHYS 211), PHY 206 (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.