

Associate in Engineering Science Degree in Computer Engineering

Transfer Curriculum AES 0096
Associate in Engineering Science:
68 Hrs. Min.
Major Code: 1.1 140901
Effective Date: Fall 2023

IAI GECC RECOMMENDATIONS (27-39 semester credits)

Since completion of the A.E.S degree does not complete the Illinois General Education Core Curriculum, students will need to complete the general education requirements of the school to which they transfer.

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.

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 CPS 215
CHM 201 PHY 201
CPS 215 PHY 206

Spring Only Courses:

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

FIRST YEAR – FALL SEMESTER

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

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 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, 265

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, 250, 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

FIRST YEAR - SPRING SEMESTER

| Dept. | No. | | Hrs. | Grade |
|-------|-----|------------------------|----------|-------|
| MAT | 201 | Calculus II | 5 | _____ |
| PHY | 205 | University Physics I | 5 | _____ |
| CPS | 206 | Computer Science I | 4 | _____ |
| ENG | 102 | English Composition II | <u>3</u> | _____ |
| | | | 17 | |

SECOND YEAR - FALL SEMESTER

| Dept. | No. | | Hrs. | Grade |
|--------------|-----|--|----------|-------|
| MAT | 202 | Calculus III | 3 | _____ |
| PHY | 206 | University Physics II | 5 | _____ |
| CPS | 215 | Computer Science II | 4 | _____ |
| ECO | 201 | Macroeconomics <u>or</u> Social Science Elective | 3 | _____ |
| IAI Elective | | | <u>3</u> | _____ |
| | | | 18 | |

SECOND YEAR - SPRING SEMESTER

| Dept. | No. | | Hrs. | Grade |
|--|-----|--|----------|-------|
| MAT | 205 | Differential Equations | 3 | _____ |
| PHY | 214 | Intro to Circuit Analysis <u>or</u> PHY 224 Electric Circuit Analysis w/Lab | 3-4 | _____ |
| ECO | 202 | Microeconomics <u>or</u> Social Science Elective | 3 | _____ |
| IAI Life Science Elective <u>or</u> Elective | | | 3-4 | _____ |
| IAI Fine Arts/Humanities Elective | | | <u>3</u> | _____ |
| | | | 15-17 | |

John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.