

# Associate in Engineering Science Degree in Mechanical Engineering

**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

**FIRST YEAR - SPRING SEMESTER**

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	<u>3</u>	_____
			17-18	

**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

**SECOND YEAR - FALL SEMESTER**

Dept.	No.		Hrs.	Grade
MAT	202	Calculus III	4	_____
PHY	206	University Physics II	5	_____
PHY	201	Statics	3	_____
ECO	201	Macroeconomics <u>or</u> Social Science Elective	3	_____
IAI Life Science Elective <u>or</u> Elective			<u>3-4</u>	_____
			18-19	

**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

**SECOND YEAR - SPRING SEMESTER**

Dept.	No.		Hrs.	Grade
MAT	205	Differential Equations	3	_____
PHY	202	Dynamics	3	_____
PHY	203	Mechanics of Materials	4	_____
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	<u>3</u>	_____
			16-17	

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