



John A. Logan College

# Associate in Science Degree in Physics

Transfer Curriculum 000AS0087  
Associate in Science: 64 Hrs.  
Major Code: 1.1400801B  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 31-32 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. The degree requirements as listed **do not complete IAI GECC core requirements.**

An additional 3 credits of approved Humanities or Fine Arts and 3 credits of Social Sciences are needed to complete the core. These additional courses may be taken as electives or upon transfer to the four year institution.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
Humanities Elective (3)	_____	_____

#### 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

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 131 (5)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective (3)	_____	_____
Social Science Elective (3)	_____	_____

#### 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 PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must include a lab component.

	Sem.	Grade
BIO 101 or Life Science Elective (4-3)	_____	_____
PHY 205 (5)	_____	_____

#### 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

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Physical Science: PHS 102, 103, 105, 107

Physics: PHY 121, 155, 205

### Additional Associate in Science Degree Requirements

MAT 201(5)	_____	_____
PHY 206 (5) Spring only	_____	_____

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS** (IAI GECC and major/elective credits **must total a minimum of 64 hours** for the degree.) Students should select elective hours that will allow them to complete this 64 hour requirement.) **Pre-requisite courses may be required before taking these electives. Consult with the Course Catalog and your advisor.**

	Sem.	Grade
ORI 100 (1)	_____	_____
CHM 151 or Elective (5-3)	_____	_____
CHM 152 or Elective (5-3)	_____	_____
MAT 202 or Elective (3)	_____	_____
MAT 221 or Elective (3)	_____	_____
Foreign Language or Elective	_____	_____

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

#### ARTICULATION NOTES

The Associate in Science degree by designed does not fulfill the complete IAI GECC package. To transfer with the IAI GECC component complete, you will need to select an additional course under the IAI Humanities and Fine Arts area and one additional course posted as an IAI Social and Behavioral Sciences course.

#### IAI PHYSICS MAJOR Panel INFORMATION

Take PHY 205 (IAI PHY 911), PHY 206 (PHY 912), MAT 131 (MTH 901) and CHM 151 (CHM 911).

#### SIUC TRANSFER INFORMATION

SIUC offers a B.S. degree in Physics with four specializations (Traditional Physics, Biomedical Physics, Computational Physics and Materials and Nanophysics

For the Traditional Specialization, take CHM 151 (CHEM 200/201), MAT 131 (MATH 150), MAT 221 (MATH 221), MAT 201 (MATH 250) and MAT 202 (MATH 305). Take PHY 205 (PHYS 205A) and PHY 206 (PHYS 255B). Take CPS 202 (CS 215) and CPS 215 (CS 220) as physics elective credit.

The College of Science Academic Requirements not already covered include: Biological Science, select one from BIO 100, 101, 102, 105, 205, 206 or 225. Supportive Skills, select ENG 113 (with ENG 10/102. ENG 113 substitutes for ENG 291 OR MAT 120 or 129 for MATH 282 OR a semester or two of a foreign language (FRE 101/102, GER 101/102 or SPN 101/102)

#### SIUE TRANSFER INFORMATION

SIUE offers a B.S. degree in Physics.

Take MAT 131(MATH 150), MAT 201 (MATH 152), MAT 202 (MATH 250), MAT 205 (MATH 305) and MAT 221 (MATH 321). Take COM 115 (ACS 101), PHL 121 (RA 101), PHY 205 (PHYS 151/151L), PHY 206 (PHYS 152/152L). CHEM 131, 135, PHYS 201/201L and CS 145 are also required but currently a JALC equivalent if not available.

#### ISU TRANSFER INFORMATION

ISU offers a B.B. degree in Physics

Take PHY 205 (PHY 110), PHY 206 (PHY 111), PHY 202 (PHY 220), MAT 131 (MAT 145), MAT 201 (MAT 146), MAT 202 (MAT 147) and MAT 221 (MAT175). Take FRE 101/102 or GER 101/102 or SPN 101/102to satisfy the LAN 111/112 requirement. Note: ASL/IPP 141/142 will also satisfy this LAN requirement. Take CHM 151(CHE 140) and SHM 152 (CHE 141). The SMT course is satisfy by coursework already mentioned. To meet the AMALI requirement, take one of

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the following (ANT 111, 216, GEO112, HIS 103, 104, 213, HUM 120, PHL 200,260, PSC 120, 212 or 213).

#### EIU TRANSFER INFORMATION

EIU offers a B.S. degree in Physics. Options are also available in Astronomy, Computational Physics and Engineering Physics

For the general Physics program, take ENG 101/102 (ENG 1001G/1002G), COM 115 (CMN 1310G), PHY 205 (PHY 1351G/1352G), PHY 206 (PHY 1361/1362), CHM 151 (CHM 1310G/1315G), CHM 152 (CHM 1410/1415), MAT 131 (MAT 1441G, MAT 201 (MAT 2442) and MAT 202 (MAT 2443). Take two semesters of a single World Language (FRE 101/102 as WLF 1101/1102 or GER 101/102 as WLG 1101/1102 or SPN 101/102 as WLS 1101/1102). Within the IAI course selection, one course from either Humanities/Fine Arts or Social/Behavioral Sciences must be culturally diverse (LIT 284, 295, ANT 102, SOC 215 or 221)

#### UIUC TRANSFER INFORMATION

UIUC offers a B.S. degree in Physics. Effective Fall 2019, transfer applicants must demonstrate subject mastery by earning a minimum of a "B" grade in all required courses.

Take CHM 151 (CHEM 102/103), MAT 131 (MATH 220), MAT 201 (MATH 231), MAT 202 (MATH 241- a UIUC bridge course -MATH 292 must also be completed). (note: the calculus sequence should be completed prior to transfer). Take PHY 205 (PHYS 211) and PHY 206 (PHYS 212). Take CPS 206 (CS 101).

The College of Liberal Arts and Sciences requires the completion through the fourth level of a single foreign language (FRE 101/102/ 201/ 202 for FR 101/102/103/104 or GER 101/102/201/202 for GER 101/102/103/104 or SPN 101/102/201/202 for SPAN 101/102/130/ UF4-2)