

**MATHEMATICS-ASSOCIATE IN SCIENCE**  
**Pre-Baccalaureate Program Guide**

**Transfer Curriculum 000AS0087**  
**Associate in Science: 64 Hours**  
**Major Code: 1.1 270101B**

**GENERAL EDUCATION (IAI GECC, 37-38 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. Degree requirements have been revised for new students for the fall 2016 term. 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)**

\_\_\_\_\_ ENG 101 or ENG 113 (C grade or higher)

\_\_\_\_\_ ENG 102 (C grade or higher)

\_\_\_\_\_ SPE 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.

\_\_\_\_\_ Fine Arts Elective (3) \_\_\_\_\_

\_\_\_\_\_ PHL 121 or 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)**

\_\_\_\_\_ MAT 131 (5)

**IAI Social and Behavioral Sciences (2 courses)**

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

\_\_\_\_\_ Social Science Elective (3) \_\_\_\_\_

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**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 be at least 4 credit hours and include a lab component.

\_\_\_\_\_ BIO 101 (4) or Life Science Elective \_\_\_\_\_

\_\_\_\_\_ PHY 205 (5) or Physical Science Elective \_\_\_\_\_

**IAI Life Science Electives:**

Biology ..... BIO 100, 101, 105, 110, 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**

(Courses should be applicable to the desired major)

MAT 201-5 \_\_\_\_\_

PHY 206-5 or Physical or Life Science Elective \_\_\_\_\_

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS**

(IAI GECC and major/elective credits **must total 64 hours** for the degree. Students should select elective hours that will allow them to complete this 64 hour requirement.) **Please select courses on this guide in accordance with the transfer requirements for your transfer institution. Please note that not all electives listed are required to complete this degree. Hours must total 64.**

\_\_\_\_\_ CPS 206 (4) or Elective \_\_\_\_\_

\_\_\_\_\_ MAT 202 (5)

\_\_\_\_\_ MAT 205 (3) or General Elective \_\_\_\_\_

\_\_\_\_\_ MAT 221 (3) or General Elective \_\_\_\_\_

\_\_\_\_\_ PHY 205 (5) or General Elective \_\_\_\_\_

\_\_\_\_\_ PHY 206 (5) or General Elective \_\_\_\_\_

\_\_\_\_\_ Foreign Language (8) or General Electives \_\_\_\_\_

**ARTICULTION NOTES:**

Consult with the transfer institution to assess 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.

**IAI AND MATHEMATICS MAJOR PABNEL INFORMATION:** Take MAT 131, 201 and MAT 221 or MAT 205 to fulfill core. It is highly advised to complete the Calculus sequence at the same institution. Take CPS 206 and PHY 205. JALC Math suggests PHL 121-3 as the IAI GECC Humanities Elective

**SIUC TRANSFER INFORMATION:** For the B.S. degree under the College of Science take MAT 131, 201, 202, MAT 221. Take CPS 206. Take MAT 205 as a match to MATH 305 that fulfills a Group C requirement.

-Take a two course Foreign Language sequence at the college level to satisfy the College of Science Supportive Skill requirement. Three years of the same language with grades of C or higher in high school will also satisfy the Supportive Skills requirement. BIO 101 and 102 will satisfy the College of Science Biological Sciences requirement. PHY 205/206 can fulfill the Physical Sciences requirement for the College of Science.

**SIUE TRANSFER INFORMATION:** All program options under Mathematics and Statistics require completion of a core. Take MAT 131, 201 and 202. Take MAT 221. Take PHY 205. PHL 121 is recommended. MAT 223 and CS 145 will need to be completed at SIUE.

B.S. degree options include Actuarial Science, Applied Math, Pure Math, Statistics and Teacher Licensure. Depending on the Mathematical Studies option, additional courses could be taken at JALC that meet degree requirements.

**Effective Date: Fall 2018**

**EIU TRANSFER INFORMATION:** Offers Mathematics with two concentrations (Applied Mathematics and Pure Mathematics)

- Take MAT 131, 201, 202 and 221. Also take CPS 206
- Take MAT 205 and CPS 215 for the Applied Mathematics option. Take MAT 205 for the Pure Mathematics option.
- Foreign Language-8 is required but two years in a single language in high school with "C" or grades will waive the one year/two course requirement.

**ISU TRANSFER INFORMATION:** Offers Mathematics with two concentrations (Applied Mathematics and Pure Mathematics)--Take MAT 131, 201, 202 and 221. Take CPS 206.

- Take MAT 205 and CPS 215 for the Applied Mathematics option. Take MAT 205 for the Pure Mathematics option.
- Foreign Language-8 hours is required but two years in a single language in high school with "C" or grades will waive the one year/two course requirement