

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

**Transfer Curriculum 000AS0087**  
**Associate in Science: 64 Hours**  
**Major Code: 1.1 260101B**

**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: (9 Hours)**

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

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

\_\_\_\_\_ SPE 115 Speech

**IAI Humanities and Fine Arts (6 Hours)**

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 (3) 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 211, 212, 231, 232, 235, 264, 280, 281, 284, 295  
Philosophy..... PHL 111, 121, 131, 200, 260

**IAI Mathematics (3-5 Hours)**

\_\_\_\_\_ MAT 282 (3) or MAT 131 (5) or MAT Elective \_\_\_\_\_

**IAI Mathematics Electives:**

MAT 113, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

**IAI Social and Behavioral Sciences (6 Hours)**

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

\_\_\_\_\_ ECO 201 or Social Science Elective (3) \_\_\_\_\_

\_\_\_\_\_ PSC 212 or GEO 112 or 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 (7-8 Hours)**

One course must include a lab component.

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

\_\_\_\_\_ CHM 151 (5) or Physical Science Elective

**IAI Life Science Electives:**

Biology ..... BIO 100, 101, 105, 225  
Interdisciplinary ..... PHS 101 and PHS 111, SCI 210A and SCI 210B  
Physical Geography... GEO 215

**IAI Physical Science Electives:**

Chemistry..... CHM 141, 151  
Interdisciplinary ..... PHS 101 and 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 DESIRED MAJOR)

BIO 102 (4) \_\_\_\_\_

MAT 282 (3) or MAT Elective \_\_\_\_\_

**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. Select courses from this listing with consideration to the Articulation Notes)

\_\_\_\_\_ CHM 152 (5)

\_\_\_\_\_ CHM 201 (5) or General Elective \_\_\_\_\_

\_\_\_\_\_ CHM 202 (5) or General Elective \_\_\_\_\_

\_\_\_\_\_ PHY 155 (5) or General Elective \_\_\_\_\_

\_\_\_\_\_ PHY 156 (5) or General Elective \_\_\_\_\_

\_\_\_\_\_ Foreign Language Elective (8) \_\_\_\_\_

**ARTICULATION NOTES:**

Consult with your 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.

**Biological Sciences program**

When reference is made to Biology or Biological Sciences, a general degree program may be appropriate or a more specialized biology track may best fit one's career interests. Plant Biology or Botany, Zoology, Biomedical Sciences (Pre-professional track for medicine, dentistry, podiatry, chiropractic), ecology and genetics are a few that are viewed as biology degree programs.

**IAI Biology Major Panel:** Take BIO 101,102, CHM i52, 201 and 202 as Biological Sciences core courses. CHM 151 and MAT 131 are recommended.

**SIUC:** In addition to a Biology Education emphasis, the Biological Sciences program offers options in Biomedical Sciences as pre-professional preparation for medicine, dentistry, optometry, physician assistants pharmacy, podiatry or chiropractic) and Ecology. Other Biology options include Microbiology, Plant Biology or Botany, Physiology and Zoology.

For both specializations (Biomedical and Ecology), take a one year or two course sequence in a Foreign Language or CIS 207 or CPS 206 to meet the Supportive Skills requirement for the College of Science. Take BIO 101, 102, CHM 151, 152, 201 and 202. Take MAT 108 and 109 or 111 or 131. Take MAT 282. Take PHY 155 and 156.

**EIU:** For the Biological Sciences program option, take BIO 101, 102 and 205. Take CHM 151, 152 and 201. Take PHY 155 and 156. Take MAT 131 and 282. Take one year/two course sequence in a foreign language. The A.S. degree waives the culturally diverse course requirement for the BS degree.

For the Environmental Biology program option, take ECO 201. The PHY sequence is not required for this option. MAT 282 is not required.

**ISU:** Take BIO 101 and 102. In addition, students must complete one of the following sequences: General Biology; Conservation Biology; Physiology; Neuroscience and Behavior; Plant Biology or Zoology.

--For General Biology, take BIO 240. Take CHM 151, 152 and 201. Take MAT 116 and 117 or MAT 131 and 201. Take PHY 121 or 155 or 205. Note MAT 120 (a match to ECO 138) is an acceptable substitute for either MAT 117 or MAT 201.

--For Conservation Biology, take BIO 240. Required elective courses must include one from each of three groupings. Applicable courses include BIO 226 as a match to BSC 260 9 (Conceptual group) and BIO 115 as a match to BSC 292 (Zoology Taxon group). Take CHM 151, 152 and 201. Take MAT 116, 117 or MAT 131 and 201. Note MAT 120 (ECO 138) is an acceptable substitute for MAT 117 or MAT 201. Take PHY 121 or 155 or 201.

--For Physiology, Neuroscience and Behavior Biology, take BIO 115 and BIO 226. Take CHM 151, 152 and 201. Take MAT 116, 117 or 131 and 201. Note, MAT 120 (ECO 138) is an acceptable substitute for either MAT 117 or 201. Take PHY 121 or 155 or 201.

--For Plant Biology, Take BIO 240 or BIO 226. Take BIO 275. Take CHM 151, 152 and 201. Take MAT 116 and 117 or MAT 131 and 201. Note, MAT 120 (ECO 138) is an approved substitute for MAT 117 or 201. Take PHY 121 or 155 or 201.

--For Zoology, take BIO 240 and BIO 115. Take CHM 151, 152 and 201. Take MAT 116 and 117 or MAT 131 and 201. Note MAT 120 (ECO 138) is an approved substitute for MAT 117 or 201. Take PHY 121 or 155 or 201.

To meet a general graduation requirement, take GEO 112 or PSC 212 to satisfy an AMALI (former Global Studies) course requirement.

All B.S. degrees require a STM course selected from BIO 226, 240, 275, CHM 142, 152, 201, PHS 107, MAT 117, 201, 202, 125, 221, BUS 121, PHY 156 or 206.

All degrees offered through the College of Liberal Arts and Sciences requires completion of a two course sequence or one year of a foreign language. Three years of the same language in high school with "C" or higher grades will provide a waiver for the one year/two course requirement.

**SIUE:** Take BIO 101 and 102. Take CHM 151 and 152 and CHM 201 and 202 as core requirements for Biological Sciences.

-- SIUE offers B.A. and B.S. degree options in Ecology/Evolution/Environment, Genetics and Cellular Biology, Integrative Biology, Medical Sciences and Medical Technology. Beyond the core, each option recommends PHL 121. The Ecology/Evolution/Environment option, the Genetics and Cellular Biology option, the Integrative Biology option and the Medical Science option all require MAT 131, PHY 155, 156 or PHY 205, 206 and MAT 282. The Medical Technology option requires MAT 109, PHY 155 and 156 or PHY 205 and 206 and MAT 120 or 282

**Effective Date: Fa11 2017**