

BIOLOGY PRE-MAJOR FOR ASSOCIATE IN ARTS

Department Co-Chair: Kanchana Mendes, 847.376.7184, biologychair@oakton.edu

Department Co-Chair: Nicole Perry, 847.376.7086, biologychair@oakton.edu

The following pre-major is recommended for students who are considering completing a Bachelor's of Arts degree in Biology after transferring to a four-year institution. It is designed for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to consult the Office of Advising, Transitions, and Student Success and the transfer institution's catalog to select courses that will meet both Oakton and transfer institution requirements.

For more information on course selection or program-specific advising, contact the department chair. Part time students should also consult the Office of Advising, Transitions, and Student Success for part-time pre-major recommendations. **General Education courses should be selected from the list of IAI General Education Courses.**

| First Year | | |
|--|--|--------------|
| Semester One | | Hours |
| EGL 101 | Composition I | 3 |
| SPE 103 | Effective Speech | 3 |
| MAT 250 | Calculus I ¹ | 5 |
| CHM 121 | General College Chemistry I | 4 |
| Hours | | 15 |
| Semester Two | | |
| EGL 102 | Composition II | 3 |
| BIO 121 | General College Biology I | 4 |
| CHM 122 | General College Chemistry II | 4 |
| Select one of the following: | | 3-4 |
| EGL 131 | Multicultural Literature in the U.S. ² | |
| HUM 121 | Western Culture and the Arts: Renaissance through the 20th Century | |
| HUM 142 | Women and Creativity ² | |
| PHL 205 | World Religions ³ | |
| Modern Language Course (202 ³ or higher) ⁴ | | |
| Hours | | 14-15 |
| Second Year | | |
| Semester One | | Hours |
| BIO 122 | General College Biology II | 4 |
| Select one of the following: | | 4-5 |
| CHM 207 | Elementary Organic Chemistry | |
| CHM 221 | Organic Chemistry I ⁷ | |
| CHM 223 | Organic Chemistry I ⁷ | |
| Select one of the following: ⁸ | | 3-4 |
| BIO 104 | Human Genetics ⁵ | |
| BIO 105 | Human Genetics ⁵ | |
| BIO 106 | Introduction to Environmental Science ³ | |
| BIO 107 | Ecological Restoration | |
| BIO 109 | Plants and Society ³ | |
| BIO 110 | Sex, Gender and Health | |
| BIO 112 | Essentials of Nutrition | |
| BIO/CHM 240 | Interdisciplinary Undergraduate Laboratory Research | |
| Select one of the following: | | 3 |
| PSC 101 | American Government | |
| PSY 101 | Introduction to Psychology | |

| SOC 101 | Introduction to Sociology ² | |
|---|---|--------------|
| SOC 103 | Social Problems ⁶ | |
| Select one of the following: | | 3 |
| ART 114 | Art History: Art of the Non-Western World ³ | |
| HUM 124 | African-American Culture and the Arts ² | |
| HUM 131 | Introduction to Theater | |
| HUM 142 | Women and Creativity ² | |
| MUS 236 | Music Literature and History | |
| Hours | | 17-19 |
| Semester Two | | |
| Select two of the following: | | 6 |
| ANT 102 | Introduction to Social and Cultural Anthropology ³ | |
| PSC 202 | International Relations ³ | |
| PSY 120 | Human Development | |
| SOC 230 | Sociology of Sex and Gender ² | |
| SOC 232 | Sociology of Race and Ethnicity ² | |
| Select one of the following: | | 3 |
| ART 114 | Art History: Art of the Non-Western World ³ | |
| EGL 131 | Multicultural Literature in the U.S. ² | |
| HUM 131 | Introduction to Theater | |
| MUS 236 | Music Literature and History | |
| Select two of the following: ⁸ | | 6-8 |
| BIO 104 | Human Genetics ⁵ | |
| BIO 105 | Human Genetics ⁵ | |
| BIO 106 | Introduction to Environmental Science ³ | |
| BIO 107 | Ecological Restoration | |
| BIO 109 | Plants and Society ³ | |
| BIO 110 | Sex, Gender and Health | |
| BIO 112 | Essentials of Nutrition | |
| BIO/CHM 240 | Interdisciplinary Undergraduate Laboratory Research | |
| BIO 251 | Microbiology | |
| CHM 222 | Organic Chemistry II ⁷ | |
| CHM 224 | Organic Chemistry II ⁷ | |
| MAT 131 | Elementary Statistics | |
| MAT 251 | Calculus II ⁹ | |
| Hours | | 15-17 |
| Total Hours | | 61-66 |

¹ Students who do not place into MAT 250 need to work with an academic advisor, math placement coordinator, and/or Biology department chair to determine how to sequence math courses for Biology Pre-major.

² Course fulfills the U.S. Diversity Studies requirement. At least one U.S. Diversity Studies course is required for degree completion.

³ Course fulfills the Global Studies requirement. At least one Global Studies course is required for degree completion.

⁴ Any Modern Language Intermediate II course can meet the Humanities and Global Studies requirements. Transfer institutions may have a language requirement.

⁵ Credit cannot be received for both BIO 104 and BIO 105.

⁶ Course fulfills both the Global Studies and U.S. Diversity Studies requirements.

Transfer-related Notes:

⁷ Students should check with their transfer institution to determine if they need one semester of organic chemistry or two semesters of organic chemistry. Students who need one semester of organic chemistry should take CHM 207. Students who need two semesters of organic chemistry should take either CHM 221/CHM 222 or CHM 223/CHM 224. Students may take CHM 221 and CHM 222 in place of CHM 223 and CHM 224. However CHM 221 and CHM 222 are only offered in the summer, and CHM 223 and CHM 224 are offered during the

academic year. Students should check with their transfer institution to determine if they need to have organic chemistry with one three hour lab per week (CHM 221/CHM 222) or two three hour labs per week (CHM 223/CHM 224).

⁸ Students need to check with their transfer institution to determine if BIO 104, BIO 105, BIO 106, BIO 107, BIO 109, BIO 110, BIO 112, BIO 231, BIO 232, BIO 240 or BIO 251 will transfer as Biology electives. BIO 104, BIO 105, BIO 106 and BIO 109 are IAI-approved courses. The best major elective may depend on the biology major pathway at the transfer institution.

⁹ Students should check with their transfer institution to determine if they need one semester of calculus or two semesters of calculus for a biology major. Students who do not take MAT 251 may need to take MAT 131 as an elective. Students who need two semesters of calculus can choose MAT 131 as a major elective. This will depend greatly on the transfer institution and biology major pathway at that institution. Students should also check with their transfer institution to determine the level Physics that is needed at their transfer institution. Some Biology majors require calculus based Physics whereas some Biology majors only required algebra based physics (PHY 131/PHY 132).

Note: Pre-major is a recommended sequence and selection of courses. For degree requirements see Associate in Arts (A.A.).