

# *BACHELOR OF SCIENCE IN BIOTECHNOLOGY*

## FERRIS STATE UNIVERSITY/MOTT COMMUNITY COLLEGE TRANSFER PLAN

**PROGRAM COORDINATOR: DR. BRADLEY ISLER**

**OFFICE: ASC 2118 Phone: (231) 591-2641 E-Mail: islerb@ferris.edu**

Admission requirement for transfer students:

1. Transfer students with fewer than 12 transferable credits at the time of application, must meet the current freshman admission criteria. The application will be considered for admission based upon the high school academic record.
2. Transfer students with 12 or more transferable credits at the time of application (including both English and Algebra) must have a minimum CGPA of 2.0. Students without an English and Algebra class will be required to submit an ACT/SAT score.

**Admission to the Junior Year Professional Sequence is competitive**

Graduation Requirements

1. 2.0 Cumulative Grade Average in all courses. No grade lower than a C- in science and math courses allowed for graduation
2. Minimum 123 Credits including general education requirements
3. Residency Requirements: 30 minimum FSU semester credits
4. Minimum 40 credits numbered 300 or higher

| REQUIRED  |     | COURSE TITLE – FOR PREREQUISITES, SEE FSU OR MOTT CATALOG COURSE DESCRIPTIONS | FSU S.H. | MOTT Equivalent | GRADE |
|---|-----|---|----------|-----------------|-------|
| <b>Major – 91 credit minimum - No grade lower than a C- allowed for graduation.</b> |     |   |          |                 |       |
| BIOL  | 121 | General Biology 1   | 4        | BIOL125 & 126   |       |
| BIOL  | 122 | General Biology 2   | 4        | BIOL111         |       |
| BIOL  | 205 | Human Anatomy/Physiology  | 5        | BIOL151 & 152   |       |
| Or<br>BIOL<br>And<br>BIOL   | 321 | Human Physiology and Anatomy 1  | 4        |                 |       |
|   | 322 | Human Physiology and Anatomy 2  | 4        |                 |       |
| BIOL  | 375 | Principles of Genetics  | 3        |                 |       |
| BIOL  | 386 | Microbiology and Immunology   | 5        |                 |       |
| BIOL  | 388 | Advanced Immunology Laboratory  | 2        |                 |       |
| BIOL  | 470 | Molecular Genetics  | 4        |                 |       |
| BIOL  | 471 | Biotech 2: Recombinant DNA Lab  | 3        |                 |       |
| BIOL  | 472 | Proteins  | 3        |                 |       |
| BIOL  | 473 | Biotech 3: Proteins Laboratory  | 3        |                 |       |
| BIOL  | 474 | Advanced Cell & Molecular Biology   | 3        |                 |       |
| BIOL  | 475 | Bioinformatics  | 3        |                 |       |
| CHEM  | 121 | General Chemistry 1   | 5        | CHEM131         |       |
| CHEM  | 122 | General Chemistry 2   | 5        | CHEM132         |       |
| CHEM  | 321 | Organic Chemistry 1   | 5        | CHEM237         |       |
| CHEM  | 322 | Organic Chemistry 2   | 5        | CHEM238         |       |
| CHEM  | 231 | Quantitative Analysis   | 4        | CHEM222 & 224   |       |
| CHEM  | 332 | Biochemistry Lab 1  | 2        |                 |       |
| CHEM  | 333 | Biochemistry Lab 2  | 2        |                 |       |
| CHEM  | 364 | Biochemistry  | 4        |                 |       |
| CHEM  | 474 | Advanced Biochemistry   | 3        |                 |       |
| MATH  | 130 | Advanced Algebra & Analytical Trigonometry                                    | 4        | MATH161 & 163   |       |
| MATH  | 251 | Statistics for the Life Sciences  | 3        |                 |       |
| PHYS  | 211 | Introductory Physics 1  | 4        | PHYS281         |       |
| <b>CHOOSE ONE:</b>  |     |   |          |                 |       |
| BIOL  | 491 | Biotechnology Internship  | 3-6      |                 |       |
| BIOL  | 496 | Independent Studies in Biology  | 3-6      |                 |       |
| CHEM  | 497 | Independent Studies in Chemistry  | 3-6      |                 |       |

General Education: All Students must complete the General education associated with this degree. Some courses listed in the major program requirements also satisfy general education requirements. Listed below are general education requirements not satisfied in the programs major area.

FSU General Education requirements are available on the FSU web site at:

<http://www.ferris.edu/htmls/academics/gened/gened.html>.

Listings of FSU courses that will satisfy these requirements are available on the FSU web site at:

<http://www.ferris.edu/htmls/academics/gened/courses.html>.

Equivalencies for FSU courses at your school may be found on the FSU web site at:

<http://www.ferris.edu/admissions/Tranfer/WebPages/homepage1.cfm>

| <b>Remaining General Education Requirements not fulfilled in the major: minimum 30 credits</b> |            |   |   |                           |  |
|--|------------|---|---|---------------------------|--|
| ENGL   | 150        | English 1   | 3 | ENGL101                   |  |
| ENGL   | 250        | English 2   | 3 | ENGL102                   |  |
| ENGL   | 321        | Advanced Composition  | 3 |                           |  |
| COMM   | 105 or 121 | Interpersonal Communication<br>Fundamentals of Public Speaking                                    | 3 | HREL101<br>COMM131 or 132 |  |
|  |            | Cultural Enrichment Elective  | 3 |                           |  |
|  |            | Cultural Enrichment Elective  | 3 |                           |  |
|  |            | Cultural Enrichment Elective – 200 level or higher  | 3 |                           |  |
|  |            | Social Awareness Elective – Foundation  | 3 |                           |  |
|  |            | Social Awareness Elective – Second Subject Area   | 3 |                           |  |
|  |            | Social Awareness Elective – 200 level or higher   | 3 |                           |  |
|  |            | Race/Ethnicity/Gender – to be taken as one of the Cultural Enrichment or Social Awareness courses |   |                           |  |
|  |            | Global Consciousness – to be taken as one of the Cultural Enrichment or Social Awareness courses  |   |                           |  |
| <b>Electives to the minimum 123 credits requires for the degree</b>                            |            |   |   |                           |  |
|  |            |   |   |                           |  |
|  |            |   |   |                           |  |
|  |            |   |   |                           |  |
|  |            |   |   |                           |  |
|  |            |   |   |                           |  |