

ARTICULATION AGREEMENT

BETWEEN

FERRIS STATE UNIVERSITY
BACHELOR OF SCIENCE DEGREE
BIOTECHNOLOGY

AND

LANSING COMMUNITY COLLEGE

THIS ARTICULATION AGREEMENT (hereinafter "Agreement") is entered into by Ferris State University, a Michigan constitutionally-created public institution of higher education, located in Big Rapids, Michigan 49307 (hereinafter "Ferris") and Lansing Community College (hereinafter the "LCC") on this 15th day of April, 2007.

RECITALS

WHEREAS, Ferris is a Michigan public university with its main campus located in Big Rapids, Michigan, and offers a Bachelor of Science degree in Biotechnology (hereinafter the "Bachelors Program"); and,

WHEREAS, LCC is a Michigan community college with its main campus in Lansing, Michigan, and offers the following associate degrees (hereinafter the "Associate Program"):

Biology, Associate in Science
Chemical Technology, Associate in Applied Science
Molecular Biotechnology, Associate in Applied Science

and,

WHEREAS, the LCC Associate Program includes courses that may be applied toward the Ferris Bachelors Program; and,

WHEREAS, Ferris and LCC desire to collaborate to provide opportunities for continued education to the LCC graduates of the Associate Program through the Ferris Bachelors Program;

AGREEMENT

NOW THEREFORE, the parties, desiring to articulate the nature of their collaboration, hereby agree to the terms listed below. Further, Ferris is a party to the Michigan Association of Collegiate Registrars and Admissions Officers (MACRAO) Transfer Agreement and has general education transfer guidelines ("guidelines") as set forth in an Academic Affairs Policy Letter. Except as governed by the MACRAO Agreement or the guidelines, the following terms shall apply.

1. The LCC students who graduate from the Associate Program with a cumulative grade point average of not less than a 2.00 on a 4.00 scale (hereinafter the "qualified student") may apply to the Bachelors Program at Ferris. If the qualified student is admitted to Ferris for the Bachelors Program, Ferris shall permit the qualified student to transfer all credits in the Associate Program towards the Bachelors Program for those courses that the qualified student received a grade of C (or a 2.00 on a 4.00 scale) or higher, and for those courses that the qualified student received a grade of Pass (hereinafter a "Pass") for a course completed on a Pass or Fail basis, provided, however, that LCC's definition of a Pass does not include the equivalent of a grade lower than a grade of C (or a 2.00 on a 4.00 scale). Qualified students who have earned not less than fifty-six (56) credits shall be considered juniors for academic purposes at Ferris, provided, however, that such qualified students received a grade of C (or a 2.00 on a 4.00 scale) or higher, or a Pass, in such transferred credits.

2. Ferris and LCC establish their own admissions requirements and recognize and respect each other's autonomy in establishing such requirements. Although qualified students from LCC may meet the academic admissions requirements for Ferris, such qualified students may not be otherwise eligible for admission to Ferris. Ferris and LCC recognize that Ferris may refuse admission to any person who does not meet all admissions requirements set by Ferris.

3. Attached hereto, and made a part hereof, is a transfer plan for the Bachelors Program (hereinafter the "Articulation Guide"), setting forth the Bachelors Program prerequisites, including the course equivalencies for the Ferris Bachelors Program and the LCC Associate Program that are the subject of transfer from LCC to Ferris by qualified students. The Articulation Guide is subject to programmatic review and periodic change by Ferris and LCC. Ferris and LCC will communicate regularly, but not less than once every year, regarding any required programmatic changes, and shall inform each other in writing of the impact of any programmatic changes on the Articulation Guide prior to the implementation of any programmatic changes.

4. This Agreement shall be for an initial term of three (3) years, and shall be automatically renewed for additional one (1) year terms for not more than an additional three (3) years, unless Ferris or LCC terminate this Agreement in accordance with the terms of this Agreement, or unless either party is in material breach of any term in this Agreement. Ferris or LCC may terminate this Agreement by providing the other party with written notice, by first class mail, of the termination of the Agreement. The

Agreement shall terminate not less than one hundred eighty (180) days from the date of the termination notice, unless otherwise agreed in writing by the parties.

5. This Agreement is intended solely for the mutual benefit of the parties hereto, and there is no intention, express or otherwise, to create any rights or interests for any party or person other than Ferris and LCC. Without limiting the generality of the foregoing, no rights are intended to be created for any student, qualified student, as defined herein, parent or guardian of any student, or employer or prospective employer of any student.

6. No amendment or modification to this Agreement, including any amendment or modification of this paragraph, shall be effective unless the same is in writing and signed by the party to be charged.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year written in the preamble to this Agreement.

ARTICULATION AGREEMENT

BETWEEN

FERRIS STATE UNIVERSITY
BACHELOR OF SCIENCE DEGREE
BIOTECHNOLOGY

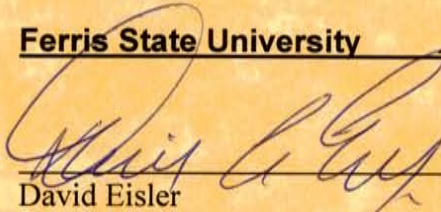
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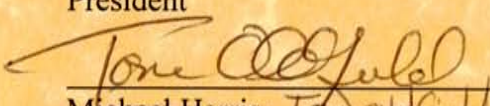
LANSING COMMUNITY COLLEGE

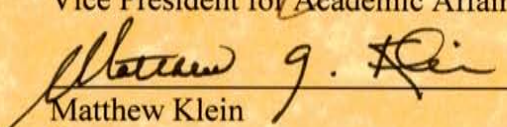
We, the representatives of Ferris State University and Lansing Community College, agree to the terms of this agreement, which will be for a period of six (6) years, effective April 15, 2007, through April 15, 2013.

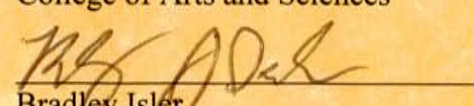
Signatures

Ferris State University

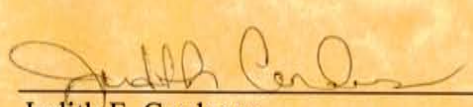

David Eisler
President

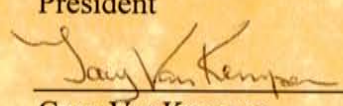

Michael Harris
Vice President for Academic Affairs

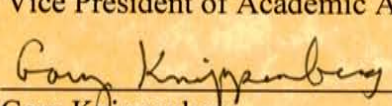

Matthew Klein
Dean
College of Arts and Sciences

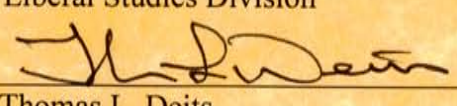

Bradley Isler
Program Coordinator
Biotechnology

Lansing Community College


Judith F. Cardenas
President


Gary VanKempen
Vice President of Academic Affairs


Gary Knippenberg
Dean
Liberal Studies Division


Thomas L. Deits
Chair
Science Department

Academic Affairs Policy Letter

GENERAL EDUCATION TRANSFER POLICY

Effective September 6, 2005

Transfer of degrees to FSU in relation to BS/BA/BIS/BSW
General Education Requirements

Objective: To clarify the process of transferring general education credits to Ferris for students with completed degrees and/or with the Michigan Association of Collegiate Registrars and Admissions Officers (MACRAO) stamp. The MACRAO agreement applies only to students entering bachelor degree programs, pertains solely to general education, and does not exempt students from meeting specific requirements for their program major.

MACRAO stamp only: Students transferring to Ferris State University with a MACRAO STAMP will have met the lower division general education requirements, meaning that in order to complete the general education requirements for a bachelor's degree at FSU they must still demonstrate proficiency in Math 115 either through course completion or credit-by-examination. In addition, they must complete the upper-level communication competence requirement and have a minimum of 33 hours in general education coursework.

AA and AS degrees and MACRAO stamp: Students transferring to Ferris State University with a completed associate degree in arts or associate degree in science will have met the lower division general education requirements. In addition, they must complete the upper-level communication competence requirement and have a minimum of 37 hours in general education coursework.

AAS and AAA degrees: Students transferring to Ferris State University with a completed associate in applied arts or associate in applied science (unless accompanied by a MACRAO stamp) must complete the general education requirements for the bachelor's degree.

BS and BA degrees: Students transferring to Ferris State University with a completed bachelor's degree are assumed to have completed ALL general education requirements.

Transfer of Grades Lower than C: Students transferring completed degrees, associate or bachelors, or MACRAO stamp only to Ferris State University will not have to repeat courses with grades lower than "C" (2.0) in order to meet General Education requirements. Programmatic requirements and prerequisites override the acceptance of grades lower than "C." *The Transfer of grades less than a "C" (2.0) Rule* still applies for individual courses transferred outside of degrees and the MACRAO stamp.*

*Ferris accepts transfer courses in which the student earned a grade of "C" (2.0) or better. Consistent with program progression policies, coursework taken at other institutions and not accepted for credit at FSU may need to be repeated. All references to a 2.0 GPA are on a 4.0 scale.

Individual college requirements or programmatic requirements supersede these general education transfer guidelines.



FERRIS STATE UNIVERSITY

Biotechnology B.S. Degree

LANSING COMMUNITY COLLEGE

Articulation Agreement

THIS PROGRAM IS DESIGNED AS A B.S. DEGREE OPTION FOR STUDENTS WHO HAVE COMPLETED OR ARE COMPLETING ONE OF THE FOLLOWING LANSING COMMUNITY COLLEGE DEGREES:
AS in BIOLOGY, AAS in CHEMICAL TECHNOLOGY, AAS in MOLECULAR BIOTECHNOLOGY

Application Deadlines:

1. Transfer students must be admitted 21 days prior to the first day of the semester they plan to attend.

Admission Requirements:

1. Transfer students must have at least 12 credits **at the time of application** with a minimum 2.0 overall GPA including an English and mathematics course or they will be considered first year students and must meet freshman admission criteria.

General Education Requirements:

1. Upon completion of the General Education courses outlined below, students will have completed MACRAO
2. Students must have the MACRAO Stamp on their college transcript in order to qualify for having met MACRAO
3. Students having completed MACRAO will be required to complete one of the 300-Level Advanced English courses listed below
4. Students not completing MACRAO must complete the Ferris General Education requirements with a 2.0 cumulative GPA
5. To view the Ferris General Education requirements, go to: <http://www.ferris.edu/HTMLS/academics/gened/gened.html>

Graduation Requirements:

1. 2.0 cumulative GPA in all courses. No grade lower than C- in science and math courses allowed for graduation
2. 30 minimum FSU semester hours must be completed to fulfill Ferris residency requirements
3. A total of 121 credit hours are required for graduation in this major

GENERAL EDUCATION REQUIREMENTS

FERRIS Courses	Course Title	LANSING CC Courses	Credit Hours Required	Grade
ENGL 150	English 1	WRIT 121 or WRIT 131	3	
ENGL 250	English 2	ENGL 122 or WRIT 122 or WRIT 132	3	
Advanced ENGL 300-Level	Advanced Composition (ENGL 321 or ENGL 323 or ENGL 325)		3	
Lab Science	Met through Major	LCC	4-5	
MATH 115	Intermediate Algebra	MATH 121	4	
Gen-Ed Elective	Cultural Enrichment/MACRAO Humanities	SPCH 130 or SPCH 140	3	
Gen-Ed Elective	Cultural Enrichment/MACRAO Humanities	LCC	3	
Gen-Ed Elective	Cultural Enrichment/MACRAO Humanities	LCC	3	
Gen-Ed Elective	Social Awareness/MACRAO Social Science	LCC	3-4	
Gen-Ed Elective	Social Awareness/MACRAO Social Science	LCC	3-4	
Gen-Ed Elective	Social Awareness/MACRAO Social Science	LCC	3-0	
TOTAL GENERAL EDUCATION Credits:			34- 36 with MACRAO	

BIOTECHNOLOGY MAJOR REQUIREMENTS
LANSING COMMUNITY COLLEGE

FERRIS REQUIRED COURSES		COURSE TITLE <i>Ferris prerequisites shown in brackets ()</i>		LANSING CC Courses	FERRIS Required Sem. Hrs.	GRADE	GRADE PTS.
MAJOR – 91 credit minimum No grade lower than a C- allowed for graduation							
BIOL BIOL	121 & 122	General Biology 1 General Biology 2 <i>Botany</i> <i>Zoology</i>	<i>(CHEM 114 or 121 concurrent)</i> <i>(BIOL 121 & CHEM 114 or 121)</i>	BIOL 127 & BIOL 128	8		
BIOL Or BIOL BIOL	205 321 322	Human Anatomy/Physiology or Human Physiology & Anatomy 1 Human Physiology & Anatomy 2	<i>(CHEM 114)</i> <i>(BIOL 122 & CHEM 122)</i> <i>(BIOL 321)</i>	BIOL 201 & BIOL 202	5		
BIOL	375	Principles of Genetics	<i>(BIOL 122 and a BIO/CHEM course)</i>				
BIOL	386	Microbiology & Immunology	<i>(BIOL 205/322 & a BIO/CHEM course)</i>				
BIOL	388	Advanced Immunology Laboratory	<i>(BIOL 386)</i>				
BIOL	470	Molecular Genetics	<i>(CHEM 364 and BIOL 375)</i>				
BIOL	471	Biotech 2: Recombinant DNA Lab	<i>(BIOL 470)</i>				
BIOL	472	Proteins	<i>(BIOL 122 and CHEM 364)</i>				
BIOL	473	Biotech 3: Proteins Laboratory	<i>(CHEM 364 & BIOL 472)</i>				
BIOL	474	Advanced Cell & Molecular Biology	<i>(CHEM 364 & BIOL 375)</i>				
BIOL	475	Bioinformatics	<i>(BIOL 375)</i>				
CHEM	121	General Chemistry 1	<i>(MATH 115 and prior CHEM)</i>	CHEM 151 & CHEM 161	5		
CHEM	122	General Chemistry 2	<i>(CHEM 121)</i>	CHEM 152 & CHEM 162	5		
CHEM	231	Quantitative Analysis	<i>(CHEM 122)</i>		4		
CHEM	321	Organic Chemistry 1	<i>(CHEM 122)</i>	CHEM 251 & CHEM 272	5		
CHEM	322	Organic Chemistry 2	<i>(CHEM 321)</i>	CHEM 252 & CHEM 272	5		
CHEM	332	Biochemistry Lab 1	<i>(CHEM 322, corequisite = CHEM 364)</i>				
CHEM	333	Biochemistry Lab 2	<i>(CHEM 332)</i>				
CHEM	364	Biochemistry	<i>(PHCH 320 is acceptable)</i> <i>(CHEM 322)</i>				
CHEM	474	Advanced Biochemistry	<i>(CHEM 364)</i>				
MATH	130	Advanced Algebra & Analytical Trigonometry	<i>(MATH 120 or placement)</i>	MATH 126	5		
MATH	251	Statistics for the Life Sciences	<i>(MATH 130)</i>	STAT 170	3		
PHYS	211	Introductory Physics 1	<i>(MATH 120)</i>	PHYS 221	4		
Choose One:							
BIOL	491	Biotechnology Internship	<i>(instructor consent)</i>				
BIOL	497	Independent Studies in Biology	<i>(instructor consent)</i>				
CHEM	497	Independent Studies in Chemistry	<i>(instructor consent)</i>				
TOTAL CREDIT HOURS: 121							

For questions about your transfer to Ferris-Big Rapids in the Biotechnology BS degree, contact:

PROGRAM COORDINATOR
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Assistant Professor of Biology
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