

**PROGRAM TO PROGRAM ARTICULATION AGREEMENT
BETWEEN
UNIVERSITY OF WISCONSIN - RIVER FALLS
AND
MADISON AREA TECHNICAL COLLEGE**

MATC
UW-River Falls

Associate Degree
Baccalaureate Degree

Biotechnology Laboratory Technician
Biotechnology

The Biotechnology programs at both UW-River Falls and Madison Area Technical College share a common goal of educating students so that they may pursue careers in the biotechnology and related industries and professions. The career goals of a number of traditional and re-entry students in biotechnology require a four year, baccalaureate degree. The purpose of this articulation agreement is to provide students who have graduated from Madison Area Technical College's Biotechnology Laboratory Technician program with the opportunity to complete their baccalaureate degree studies in Biotechnology at UW-River Falls.

The "Transfer Information System Staff Course Equivalency Report" provides detailed course equivalency information for Madison Area Technical College's "college track" courses but does not treat the 100 level technology courses related to Biotechnology.

Examination of the Biotechnology curricula of the programs reveals similarities in content, teaching, and laboratory courses and suggests that direct transfer of credits be approved, subject to certain conditions. Some of Madison Area Technical College 100 level courses have been substituted directly for comparable courses offered at UW-River Falls. Some courses have been substituted on a 2 for 1 basis. For some of the 300/400 level courses, the student must satisfactorily complete the next course in the course sequence, or a specific related course, with a grade of "C" or better or they will not receive transfer credit for the indicated course and will have to take the course at UW-River Falls.

All Madison Area Technical College transfer students must also meet the UW-River Falls General Education requirements in communications, humanities, social sciences, mathematics and sciences as well as College requirements, the Diversity requirement and the Senior Capstone course requirement.

Program to Program Transfer Courses:

MATC Biotechnology Lab Tech Program	UW-River Falls Biotech Major	Transfer Credits
Required Courses for Biotechnology Major		
Biology		
806-174 Industrial & Applied Microbiology	1220-324 Microbiology	4
007-115 General Cell Biology	1220-240 Cell biology	3
Chemistry		
806-111 College Chemistry 1	1240-111 & 116 General Chemistry I	5
806-112 College Chemistry 2	1240-112 & 117 General Chemistry II	5
Interdepartmental-Required		
007-121 Applied Biochemistry		
007-122 Protein Bioseparation Methods	1240-361 Biochemistry I*	3
007-105 Fermentation Technology	1162-460 Fermentation Technology	3
Interdepartmental-Electives in Biotechnology		
007-126 Occupational Work Experience	1240-379 Internship	2
007-123 Cell Culture	Cell Culture Elective**	3
	Total Transfer Credit	28

*Students must complete 1240-362, Biochemistry II, with a grade of “C” or better to receive 3 credits for 1240-361, Biochemistry I. Students who do not make a grade of “C” or better in 1240-362 will be required to take 1240-361 and 1240-362.

**Students must complete either 1220-463, Animal Cell Culture, or 1175-369, Plant Tissue Culture, with a grade of “C” or better to receive 3 elective credits for 007-123.

Definition: Program to program transfer credits/courses are accepted only for program/degree specified in this agreement. A change of the major/degree/program invalidates these credits/courses for transfer unless they are approved within another program to program articulation agreement for a different major/degree/program at UW-River Falls.

To be eligible for consideration under this agreement, all Madison Area Technical College students must have completed the Madison Area Technical College Biotechnology Laboratory Technician Associate Degree program as specified below and receive a grade of “B” or better in all Biotechnology courses.

Madison Area Technical College
 Biotechnology Laboratory Technician Associate Degree Curriculum 4-28-98

Semester 1		Semester 2	
007-102 Radioisotopes	1	007-104 Chromatography Techniques	3
007-103 Instrumentation & Intro to Basic Lab Methods	3	007-105 Fermentation Technology	3
007-107 Hazardous Materials	1	007-111 Biotechnology Career Seminar	1
007-109 Biosafety	1	007-115 General Cell Biology	4
007-110 Biotechnology Applications	1	801-202 English Composition 2***	3
806-174 Industrial & Applied Microbiology	4	806-112 College Chemistry 2	5
806-111 College Chemistry 1	5		
801-201 English Composition 1***	3		
Semester 3		Semester 4	
007-122 Protein Bioseparation Methods	3	007-112 Biotechnology Employment Skills	1
007-123 Cell Culturing	3	007-121 Applied Biochemistry	3
007-124 Molecular Biology 1	3	007-125 Molecular Biology 2	3
809-203 Introduction to Sociology***	3	007-125 Occupational Work Experience	3
809-231 Introduction to Psychology***	3	809-195 or 211 Macroeconomics****	3
Elective***	3	Elective***	3

***Courses selected from the "Transfer Information System" that transfer as college credit courses and meet UW-River Falls baccalaureate requirements.

****Course fulfills the Liberal Arts Social Science requirement of the College of Arts & Sciences but does not meet the College requirements of the College of Agriculture, Food and Environmental Sciences.

Transfer Credit Summary:

Biotechnology	28 credits
General Education	15 credits
Electives	6 credits
Total credits from MATC program	49 credits

Plan of Studies: Students must complete at least 60 semester credits of coursework at UW-River Falls and satisfy all requirements for the baccalaureate degree. In order to more fully utilize the program arrays of both Madison Area Technical College and UW-River Falls and to reduce the time required to complete the baccalaureate requirements at UW-River Falls, it is recommended that students complete both the 10 semester credit, General Physics sequence (806-221 and 806-222) and the 10 semester credit, Organic Chemistry sequence (806-213 and 806-214) prior to transferring to UW-River Falls. Students may also select from Calculus 1 (804-231), Botany (806-215) and Animal Biology (806-203).

The following Plans of Study are predicted upon completion of the Associate Degree and both the Organic Chemistry and General Physics course sequences and pre-calculus prior to enrolling at UW-River Falls.

COLLEGE OF ARTS & SCIENCES

Fall Semester		Spring Semester	
BIOL 210	3	BIOL 230	3
MATH 166	4	BIOL 350	3
CHEM 251	2	CHEM 362	3
CHEM 256	2	CHEM 366	1
SCTA 101	3	PHED Activity	0.5
PHED 108	1	GEN ED FINE ARTS	3
		ENGL LIT (Take 1 from ENGL 241-245)	3
TOTAL CREDITS	15	TOTAL CREDITS	16.5

Fall Semester		Spring Semester	
BIOL 451	3	BIOL 463 OR PLSC 369	3
BIOL 453	3	BIOT 480	1
FDSC 335	4	BIOT ELECTIVE	3
Liberal Arts	4	Liberal Arts & Diversity	3
PHED Activity	0.5	ISOC 496	2
		IHUM 498	2
TOTAL CREDITS	14.5	TOTAL CREDITS	14

COLLEGE OF AGRICULTURE FOOD AND ENVIRONMENTAL SCIENCES

Fall Semester		Spring Semester	
BIOL 210	3	BIOL 230	3
MATH 166	4	BIOL 350	3
CHEM 251	2	CHEM 362	3
CHEM 256	2	CHEM 366	1
SCTA 101	3	GEN ED FINE ARTS	3
PHED 108	1	ANSC 111	3
TOTAL CREDITS	15	TOTAL CREDITS	16

Fall Semester		Spring Semester	
BIOL 451	3	BIOL 463 OR PLSC 369	3
BIOL 453	3	BIOT 480	1
FDSC 112	3	BIOT ELECTIVE	3
FDSC 113	1	FDSC 335	4
PLSC 161	3	ISOC 496	2
ENGL LIT (Take 1 from ENGL 241-245)	3	GEN ED FINE ARTS & DIVERSITY	3
PHED	0.5	PHED Activity	0.5
TOTAL CREDITS	16.5	TOTAL CREDITS	16.5

Effective Date: This agreement became effective as of July 1, 1998, and covers all students who complete the Biotechnology Laboratory Technician Associate Degree after May 1, 1996.