

## **Articulation Agreement**

Minneapolis Community and Technical College  
and  
the University of Wisconsin-Eau Claire

**Transfer of Credit from Minneapolis Community and Technical College A.S. in Chemistry to University of Wisconsin-Eau Claire Core Coursework for Comprehensive Chemistry Major (ACS; Code 100-106), Chemistry Liberal Arts Major (Code 100-201), Chemistry Teaching (Code 100-204) and Chemistry Minors, Comprehensive Biochemistry/Molecular Biology (Code 090-001), and Comprehensive Chemistry with Business Emphasis (Code 111-001).**

### **Statement of Purpose:**

This agreement has been entered into by Minneapolis Community and Technical College (MCTC) and the University of Wisconsin-Eau Claire (UWEC). The purpose of this agreement is to facilitate credit transfer and provide a smooth transition from MCTC's Chemistry Associate in Science degree and UWEC's programs listed above.

### **Terms and Conditions of Credit Transfer:**

University of Wisconsin-Eau Claire will accept a minimum of 60 credits from MCTC's Chemistry Associate in Science degree. The evaluation and transfer of earned college credits shall be in full compliance with MnSCU policies, the University of Wisconsin System and all other State and Federal education policies pertaining to undergraduate credit transfer. Current students and graduates who have earned a Chemistry Associate in Science degree from MCTC shall be eligible for credit evaluation under the terms of this agreement. Program specific requirements and/or required courses are listed and defined in Appendix A of this agreement.

Transfer students will be accorded the same standards and criteria for admission to a major degree sequence as UWEC students. Chemistry Associate in Science degree transfer students who have completed the Minnesota Transfer Curriculum are exempt from additional lower division general education courses unless the degree requires program specific lower division general education courses. Transfer students from MCTC must have successfully completed ENGL 1110 and ENGL 1111 (with a minimum grade of C in ENGL 1111) to meet the UWEC English Competency requirement. MCTC students who have completed only ENGL 1110 (with a minimum grade of C) will take ENGL 112 at UWEC to fulfill the requirement.

Applicants must fulfill the graduation requirements of the granting institution as identified in Appendix A.


**Articulation Implementation and Agreement Review:**

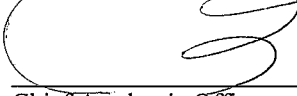
The chief academic officer or designee of the collaborating institutions shall be responsible for implementing this agreement, for identifying and incorporating any changes into subsequent agreements and for conducting a periodic review of the agreement.

The agreement becomes effective for fall 2011 admission and remains in effect until terminated or amended by either party with prior written notice. Written notice must be provided one academic year prior to termination. This Articulation Agreement will be reviewed by both parties beginning on or after the spring 2011 term.


**The University of Wisconsin-Eau Claire**

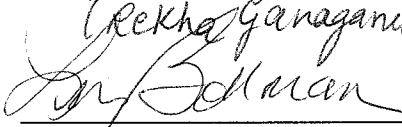
  
Chemistry Department Chair 7/16/11  
date

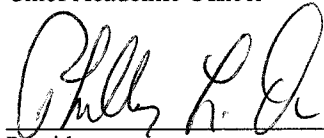
  
Executive Director of Admissions  
and Enrollment Services 7/7/11  
date

  
Chief Academic Officer 7/12/11  
date

**Minneapolis Community and Technical College**

  
Faculty Contact Person 7/25/11  
date

*(Rekha Ganaganur)*  
  
Chief Academic Officer 8-2-11  
date

  
President 8-2-11  
date

Appendix A

**Articulation Agreement**

Minneapolis Community and Technical College (MCTC)  
and  
the University of Wisconsin-Eau Claire (UWEC)

**Transfer of Credit from MCTC's A.S. in Chemistry to UWEC's Core Coursework for Comprehensive Chemistry Major (ACS; Code 100-106), Chemistry Liberal Arts Major (Code 100-201), Chemistry Teaching (Code 100-204) and Chemistry Minors, Comprehensive Biochemistry/Molecular Biology (Code 090-001), and Comprehensive Chemistry with Business Emphasis (Code 111-001).**

**MCTC's REQUIRED 5 CREDITS GENERAL EDUCATION COURSE**

MCTC Courses				UWEC Courses		
MCTC Course #	MCTC Course Title	Prerequisite	Credits	MNTC Goal area	UWEC General Education Category	UWEC Course #
CHEM 1151	Principles of Chemistry 1	College ready reading & writing, MATH 80 and CHEM 1020 or 1 year of High School chemistry	5	03	GE-IIB	CHEM 103

**MCTC's REQUIRED 29 CREDITS CORE COURSES**

MCTC Courses				UWEC Courses		
MCTC Course #	MCTC Course Title	Prerequisite	Credits	MNTC Goal area	UWEC General Education Category	UWEC Course #
CHEM 1152	Principles of Chemistry 2	CHEM 1151	5	03	GE-IIB	CHEM 104
CHEM 2204	Organic Chemistry 1 Lecture	CHEM 1151	4	03	GE-IIB	CHEM 325 (if taken with CHEM 2224)
CHEM 2224	Organic Chemistry 1 Lab	CHEM 2204 Pre- or Co-req	2	03		(See Above)
CHEM 2205	Organic Chemistry 2 Lecture	CHEM 2204	4	03		CHEM 326 (if taken with CHEM 2225)
CHEM 2225	Organic Chemistry 2 Lab	CHEM 2224 Pre- or Co-req	2	03		(See Above)
BIOT 2320	Regulatory Affairs and Quality Control	CHEM 1151	4			University Elective <sup>note 1</sup>

CHEM 2410	Analytical Chemistry and Instrumentation Theory	CHEM 1152 BIOT 2320 Pre- or Co-req	3			CHEM 213 (if taken with CHEM 2420 and BIOT 2320)
CHEM 2420	Analytical Chemistry and Instrumentation Lab	CHEM 1152; CHEM 2410 & BIOT 2320 Pre- or Co-req	2			(See Above)
ENGL 1110**	College English 1	College ready in writing	3	01		Elective; with a minimum grade of C the student is eligible for ENGL 112 at UWEC

\*\* Transfer students from MCTC must have successfully completed ENGL 1110 and ENGL 1111 (with a minimum grade of C in ENGL 1111) to meet the UWEC English Competency requirement. MCTC students who have completed only ENGL 1110 (with a minimum grade of C) will take ENGL 112 at UWEC to fulfill the requirement.

Note 1: University credit at UWEC, but not credit towards the UWEC major, is given if BIOT 2320 is taken without CHEM 2420 and CHEM 2410.

Note 2: Students must have a 2.70 GPA in MCTC's CHEM 2204, 2205, and 2410 and complete UWEC's Biol 211 and 300 for admission into the BMB program.

**MCTC's RECOMMENDED ELECTIVES\***

MCTC Courses					UWEC Courses	
MCTC Course #	MCTC Course Title	Prerequisite	Credits	MNTC Goal area	UWEC General Education Category	UWEC Course #
CHEM 2610**	Biochemistry Theory and Principles	CHEM 2204, CHEM 1152, BIOL 2200	3			CHEM 352
CHEM 2620**	Biochemistry Laboratory	BIOT 2320, CHEM 2420, CHEM 2610	2			CHEM 453
CHEM 1145	Forensic Science 1	Placement into MATH 0080 or completion of MATH 0070 and CHEM 1020 or one year of high school chemistry.	4	03	GE-IIB	4 credits lower division GE II

CHEM 2720	Undergraduate Research Methods	Pre-req/Co-req: CHEM 2410 or CHEM 2610 or BIOL 2500 or instructor approval				up to 3 credits of CHEM 399 (for both 2720 and 2721)
CHEM 2721	Undergraduate Research Laboratory	Pre-req/Co-req: BIOT 2720 ( or CHEM 2720) and all pre/co- reqs for this course apply				

\*MCTC students should take the recommended electives if pursuing chemistry or biochemistry/molecular biology majors at UWEC. Students transferring to UWEC for these majors are advised to consult the transfer specialist or advisor regarding which tracks require the above recommended elective courses.

\*\*Students who do not complete these biochemistry electives at MCTC must take these courses at UWEC. However, students pursuing the Chemistry Teaching major at UWEC will not need to take these electives (CHEM 2610 & 2620) at MCTC.

**MCTC's REQUIRED MATH AND PHYSICS: Two Options are shown below.**  
**Students must consult with the transfer university depending on which major they choose to pursue to select the appropriate option.**  
 a) **OPTION-1**

MCTC Courses					UWEC Courses	
MCTC Course #	MCTC Course Title	Prerequisite	Credits	MNTC Goal area	UWEC General Education Category	UWEC Course #
MATH 1180	Calculus 1	MATH 1110, MATH 1120, or placement into MATH 1180	5	04	GE-IB	MATH 114
MATH 1190	Calculus 2	MATH 1180	5	04	GE-IB	MATH 215 Note 2
PHYS 1211	Physics for Science and Engineering-1	Extensive High School Physics or PHYS 1131; Pre-Req/Co-req. MATH 1180	6 Includes lecture and lab	03/04	GE-IIE	PHYS 231
PHYS 1221	Physics for Science and Engineering-2	Extensive High School Physics including electricity or PHYS 1211; Pre-Req/Co-req. MATH 1190	6 Includes lecture and lab	03/04	GE-IIE	PHYS 232

Note 2: Math 215 is not required for UWEC BMB program.

OR b) OPTION-2

MCTC Courses					UWEC Courses	
MCTC Course #	MCTC Course Title	Prerequisite	Credits	MnTC Goal area	UWEC General Education Category	UWEC Course #
MATH 1170	Calculus for Business and Social Sciences	MATH 1110 or placement into higher than MATH 1110	4	04	GE-IB	MATH 111
PHYS 1131	College Physics 1	Two years High School algebra and High School trigonometry, or MATH 1110 and MATH 1120, or MATH 1125, or placement into MATH 1180	5	03	GE-IIIE	PHYS 211
PHYS 1132	College Physics 2	PHYS 1131	5	10	GE-IIIE	PHYS 212

Students seeking A.S. Degree in Chemistry at MCTC must complete coursework in 6 of the 10 goal areas of Minnesota Transfer Curriculum (MnTC). Within the general education coursework, students must complete a minimum of 3 credits in MnTC goal area 1, and a minimum of 3 credits from MnTC goal areas 7, 8, 9, or 10.

The required program credits and required Physics and Math courses (Option-1 or Option-2) fall within MnTC goal areas 01 (ENGL or SPCH), 02, (all courses), 03 (BIOT, CHEM, PHYS), 04 (MATH and PHYS) The remaining **elective/general education credits** must be selected to fulfill the other MnTC goal area requirements. If choosing option-1 for physics and math, then choose 4 credits of general education from goal area other than 01, 03, or 04. If choosing option-2 for physics and math, choose total of 12 credits from general education and special electives.

The following are the recommended electives for MCTC's A.S. in Chemistry program. However, for transfer to UWEC for specific majors/tracks, it is recommended that students select general education requirements that will satisfy UWEC's general education category area requirements or complete them after transfer to UWEC. Students should work with their advisors when selecting these courses. See <http://www.uwec.edu/registrar/catalogues/index.htm>.

**MCTC's RECOMMENDED MnTC GOAL AREA GENERAL EDUCATION ELECTIVES:**

MCTC Courses					UWEC Courses	
Course #	MCTC Course Title	Prerequisite	Credits	MnTC Goal area	UWEC General Education Category	UWEC Course #
PSCI 1137	Environment, Politics and Society	READ 0100 or placement into READ 0200	3	05, 10	GE-IIID	POLS 907L
PHIL 1171	Ethics	Any course in goal area 01 (example ENGL 1110)	3	06, 09		3 lower division credits
CMST 1012	Intercultural Communications	READ 0200, ENGL 0900 or placement into ENGL 1110	3	01, 07	GEI-A	CJ301
JOUR 1000	Intro to Mass Communications	ENGL 0900 or placement into ENGL 1110	3	09	GEI-A	CJ105
BIOL 1136	Environmental Science	READ 0200 or ESOL 0052 or placement into READ 1300; ENGL 0900 or ESOL 0051 or placement into ENGL 1110	3	03, 10	GEII-A	BIOL 180
BIOL 1137	Environmental Science Lab	In addition to the above requirements, BIOL 1136 is Pre-req/Co-Req	1	03, 10		BIOL 925L
BIOL 2200	Principles of Biology	CHEM 1020 or concurrent registration, or one year of high school chemistry with grade C or above; READ 0200 or ESOL 0052 or placement into READ 1300; ENGL 0900 or ESOL 0051; or placement into ENGL 1110	4	03	GEII-A	BIOL 111