

Articulation Agreement

Between

Hocking College, Industrial Technology: Alternative Energy and Fuel Cell A.S.

and

University of Minnesota, Crookston (UMC), Agriculture & Natural Resources -Ag Systems Management: Bio-Fuels, and Renewable Energy Technology Emphasis B.S.

Sending institution: Hocking College

Receiving institution: University of Minnesota, Crookston

Statement of Purpose

This agreement has been entered into by **Hocking College** and **UMC**. The purpose of this agreement is to facilitate credit transfer and provide a smooth transition from a MWCTC associate of applied sciences program to a UMC bachelor's degree program. It is further recognized that the attached appendices shall describe the required program of study at **Hocking College**, for eligibility for transfer of credit to **UMC**, in the (**Ag Systems Management**) area. This agreement identifies all required and equivalent courses at each institution.

Terms and Conditions of Credit Transfer:

The evaluation and transfer of earned college credits shall be in full compliance with MnSCU policies and all other state and Federal education policies pertaining to undergraduate credit transfer. Graduates, who have earned degrees from **Hocking College**, shall be eligible for transfer of credit 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 **UMC students.

- **Associate of Science** transfer students will transfer the determined number of credits of an articulated baccalaureate degree program as identified in appendix A.

Applicants accepted must fulfill the graduation requirements of the baccalaureate granting institution as identified in appendix A.

Collaboration Practices

Administration, faculty and staff at both institutions will work cooperatively to ensure successful implementation of this agreement. The faculty and staff of both institutions, will communicate openly and regularly to ensure accurate and timely information for students and advisors.

In addition:

- UMC intends to offer upper division courses required for graduation with a BS degree
- Both institutions will jointly promote the AAS, BS, and Minor degree programs to potential students.
- Both institutions will work to develop counseling, advising, transcription, registration and financial aid procedures to facilitate the seamless transfer of students.

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 this agreement; at least annually.

This agreement becomes effective on July 31, 2009 and remains in effect until July 31, 2012 unless terminated or amended by either party with prior written notice.

Sending Institution		Receiving Institution	
_____ President	_____ Date	_____ Chancellor	_____ Date
_____ Chief Academic Officer	_____ Date	_____ Chief Academic Officer	_____ Date
_____ Dean or Designee	_____ Date	_____ Dean or Designee	_____ Date
_____ Director of Articulation & Transfer	_____ Date	_____ Department Head	_____ Date
_____ Department Chair	_____ Date		

For more information contact:

Sending Institution

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Receiving Institution

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Appendix A (Alternative Energy & Fuel Cells)

Credits Transferred from Hocking College:

Liberal Education	26
Technology Requirements	3
Program Requirements	22
Program Electives	24
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Total Transferred from Hocking College	75
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Minimum UMC Credits to be Completed	45

Breakdown of Liberal Educational Courses that will Transfer:

**Students must complete the 10 goal areas of the Minnesota Transfer Curriculum with the following liberal education courses required:*

Hocking	UMC	No. of Credits
COMM 122 Communications II	COMP 1011 Comp I	3
COMM 123 Communications III	COMP 1013 Comp II	3
MATH 108 Intro to Algebra	MATH 1031 College Algebra	3
CHEM 130 Fundamentals of Chem	CHEM 1001 Introductory Chemistry	4
COMM 135 Verbal Career Skills	SPCH 1101 Public Speaking	3
PHYS 202 Physics	PHYS1012 Introductory Physics	4
SOCI 152 Comparative Cultural Studies	SOC 1001 Introductory Sociology	3
Bus 120 Personal Finance	ECON 1111 Personal Economics	3
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Total Liberal Education Requirements that will Transfer		26

UMC Liberal Education Credits/Courses to be Completed:

Course	Credits
BIOL 1009 General Biology	4
ECON 2101 Microeconomics	3
Humanities Goal Area (3xxx)	3
Global Perspective Goal Area (3xxx)	3
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Minimum Liberal Education Requirements Needed	13

Breakdown of Technology Requirement Courses that will Transfer:

MICS 121 Microsoft Office	CA 1010 Intro to Computer Technology AND CA 1012 Application Suite Software	1 2
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Total Technology Requirements that will Transfer 3

Breakdown of Program and Emphasis Requirement Courses that will Transfer:

<u>Hocking</u>	<u>UMC</u>	<u>No. of Credits</u>
ISE 103 Intro to Engineering Technology AND		
ISE 120 Economics of Alternative Energy	ASM 2200 Intro to Renewable Energy Systems	3
ISE 115 Environmental & Safety Fund.	ASM 1034 Facilities Maintenance & Safety	4
ISE 113 Alternative Energy Fuels	ASM 3202 Bio-fuels Technology	3
EE 126 Intro to Electricity	ASM 2053 Electricity, Controls, & Sensors in Ag	3
COMM 225 Technical Writing	COMP 2334 Technical Writing	3
ISE 214 Solar Energy AND		
ISE 215 Wind Turbines & Hydroelectrics	ASM 3201 Solar, Wind, & Geothermal Systems	3
ISE 294 Alternative Energy Coop Work Experience	GNAG3900 Internship AND GNAG3899 Pre-Internship Seminar AND GNAG3901 Post- Internship Seminar	2 .5 .5
Other ISE Courses	Ag/ Management Electives & Open Electives	24

*Note: Must complete minimum of 3 credits for internship at UMC

Total Program Requirements that will Transfer 46

UMC Program and Emphasis Requirements to be Completed:

<u>Course</u>	<u>No. of Credits</u>
ASM 1021 Introduction to Ag Systems Management	2
ASM 3002 Ag Mobile Power Systems	3
ASM 3005 Facilities Planning and Selection	3
GNAG 4652 Senior Seminar	1
AGRO 1183 Field Crops/ Production Principles	3
SOIL 1293 Soil Science	3
ACCT 2101 Principles of Accounting I OR	
ENTR 2200 Intro to Entrepreneurship and Small Business	3
NATR 1226 Issues of Sustainability	3
AGEC 2530 Professional Agri-selling	3
MGMT 3200 Principles of Management	3
MKTG 3300 Principles of Marketing	3

NATR 3444	Land Use Planning	3
AGEC 3640	Ag Finance & Valuation	4

Total Program Requirements Needed 37

Bridge Course Options:

<u>UMC Required Course</u>	<u>Hocking Bridge Option</u>
BIOL 1009 General Biology (4cr.)	BIOS 121 Biology I (4cr.)
ECON 2101 Microeconomics (3cr.)	ECON 140 Principles of Microeconomics (4cr.)
Humanities Goal Area (3cr.)	<i>Choose one of the following:</i> ARCH 101 Principles of Archaeology ARCH 102 World Prehistory ARCH 103 North American Prehistory ARCH 280 Cultural Anthropology ART 101 Design I ART 110 Art Appreciation HUM 200 Into World Literature HUM 201 Western Civilization HUM 202 Understanding & Appreciating Theater Arts HUM 203 Ethics, Values, and Morality HUM 204 20 th Century Music
Global Perspective Goal Area (3 cr.)	<i>Choose one of the following:</i> ARCH 280 Cultural Anthropology SOCI 152 Comparative Cultural Studies SOCI 165 Cross Cultural Studies ARCH 102 World Prehistory

*Bridge Courses are an **OPTION** for students. If they complete some or all of the listed courses above they will not have to complete the corresponding Liberal Education courses that are listed on page 3.

NOTE: Course requirements may change as curriculum evolves on each campus. Therefore, both the Sending Institution and the Receiving Institution request the right to amend this document to reflect those changes. Further, notwithstanding such changes, General Education requirements must be met in partial fulfillment of the BS degree. Current requirements include:

- 120 Total Credits required for graduation with a BS
 - 40 - Liberal Education Credits
 - 3 – Technology Credits
 - 50 – Credits in the Major
 - 18 – Credits in the Emphasis
 - 9 – Credits as Electives
 - *40 of the credits must be upper level classes