

ARTICULATION AGREEMENT
BETWEEN
NORTH CENTRAL MISSOURI COLLEGE
AND THE
UNIVERSITY OF MISSOURI

Associate of Arts to a Bachelor of Science in Plant Sciences

OVERVIEW:

This formal program articulation agreement is made and entered into by the University of Missouri, hereinafter referred to as MU, and North Central Missouri College, Trenton, Missouri, hereinafter referred to as NCMC. By this agreement NCMC and MU express a shared commitment to increasing opportunities for student access to and success in higher education. By clarifying transfer policies and procedures which assure articulation between programs, the institutions seek to assist students in making a seamless transfer from the associate to the baccalaureate degree.

PURPOSE:

This agreement provides students who have earned an Associate of Arts the opportunity to complete a **Bachelor of Science in Plant Sciences** at MU. Any NCMC student who has earned an NCMC degree is guaranteed that MU will accept designated freshman and sophomore credits and will apply such to a B.S. in Plant Sciences in a manner consistent with the treatment of native students.

CONDITIONS OF TRANSFER:

Section I: Admissions and Matriculation

NCMC students maintaining continuous enrollment under this agreement will be afforded the same treatment and protection as MU native students enrolled under a specific catalog. Criteria for admissions to the B.S. in Plant Sciences will be based on the catalog year the student enters MU.

Acceptance into MU for transfer students is based upon their past academic performance and the admission requirements for the B.S. in Plant Sciences.

NCMC, upon request of students, will provide verification of completed courses to MU through its Admissions Office.

The transcripts of students transferring from NCMC will be evaluated by the Admissions Office.

Transfer students from NCMC will have access to financial aid and student services on the same basis as native students.

Minimum grade standards for academic progress and graduation from NCMC will be subject to no further review by MU. Similarly, minimum grade standards for admission, academic

progress, and graduation from the College of Agriculture, Food and Natural Resources at MU will not be subject to review by NCMC. MU will apply the same academic progress and graduation standards to NCMC transfer students as those applicable to native students at MU.

Section II: Transfer of Credit and Admission to Degree Program

While there is no maximum number of credit hours that can be transferred by a student from NCMC to MU, 30 of the last 36 hours of credit must be completed with MU authored courses.

Students are limited to transferring eighteen (18) credit hours of course work in disciplines offered through the College of Agriculture, Food and Natural Resources.

Transfer students from NCMC who have completed the Associate of Arts degree, upon acceptance to the B.S. in Plant Sciences program at MU, will have junior standing at MU.

Section III: Program Plan

Students falling under this program articulation agreement will be responsible for successful completion of the following requirements.

MU General Education Requirements	Cr.	Associate in Arts (NCMC)	Cr.
		EN 101 – English I (elective, not communications)	3
ENGL 1000 – Exposition & Argumentation	3	EN 102 – English II (C- or better required)	3
MATH 1100 – College Algebra	3	MT 122 – College Algebra (C- or better required)	3
Physical and Biological Science			
Bio Sc 1200*	5	BI 101 Gen Botany (Bio Sc 1200)	5
Chemistry 1320*	3	CH 110 – Gen Chemistry I (Chem 1310 & 1320)	5
Social and/or Behavioral Science			
Ag Ec 1041 (microeconomics)	3	EC 223 – Agricultural Economics (micro)	3
Ag Ec 1042 (macroeconomics)	3	EC 253 – Macroeconomics (Econ 1015)	3
American History <u>or</u> American Government	3	HI 103 – Am Hist <u>or</u> PL 216 – Am Gov	3
Humanities and/or Fine Arts			
COMMUN 1200 – Public Speaking	3	SP 175 – Speech Communications	3
Humanistic Studies or Fine Arts elective	3	Literature, Fine Art, Humanities/Cultural Studies, Philosophy, <u>or</u> Foreign Language	3
Humanistic Studies or Fine Arts elective	3	Literature, Fine Art, Humanities/Cultural Studies, Philosophy, <u>or</u> Foreign Language	3
TOTAL	32	TOTAL	37

*Specific to the Plant Sciences degree requirements

Students earning an Associate of Arts degree will have fulfilled the following MU General Education requirements: English 1000 – *Exposition & Argumentation*, Math 1100 – *College Algebra*, Math Reasoning Proficiency (MRP) course, American History or American Government (State Law Requirement), Writing Intensive (WI) course (lower level), and Distribution of Content.

CAFNR Bachelor of Science Requirements	Cr.	Associate in Arts (NCCMC)	Cr.
Communication elective	3	Foreign language course at NCCMC will fulfill requirement	
Biochemistry 2110, 2112, <u>or</u> Chemistry 1330	3	CH 112 – Gen Chemistry II (Chem 1330)	5
TOTAL	6	TOTAL	5

Additional MU Graduation Requirements:

- Writing Intensive (WI) course in the major (3000/4000 level with a C- or better)
- Capstone (CAP) course in the major

Degree “CORE” Requirements	Cr.	Associate in Arts (NCCMC)	Cr.
Plnt S 2100 – Introduction to Soils	3		
Soil 2106 – Soil Science Laboratory	2		
Plnt S 2125 – Plant Structure & Function	3		
Plnt S 3130 – Undergraduate Seminar	1		
Plnt S 3225 – Plant Breeding & Genetics <u>or</u> Plnt S 3230 – Plant Propagation	3		
Pest Sequence (select two of the following - see emphasis areas for details):			
Plnt S 3210 – Principles of Weed Science	4		
Plnt S 3710 – Introductory Entomology (3) <u>and</u> Plnt S 3715 – Insect Diversity Laboratory (2)	5		
Plnt S 4500 – Biology & Pathogenesis of Plant-Associated Microbes	4		
Professional Skills (select one):			
Ag Ed 2250 – Introduction to Leadership <u>or</u> Ag Ed 2260 – Team & Organ Ldrship <u>or</u> English 2030 – Professional Writing <u>or</u> Commun 3575 – Bus & Prof Commun	3		
Business Electives (select from):			
Accounting, Ag Economics, Consumer & Family Economics, Economics, Finance, Management, or Marketing	6		
Capstone Experience			
Plnt S 4940 – Internship in Plant Sci <u>or</u> Plnt S 4950 – Undergraduate Research <u>or</u> Plnt S 4975 – Advanced Landscape Design* *Horticultural Science & Design Emphasis Only	3-4		
TOTAL	32-34		

Must complete one of four emphasis areas: 1) Crop Management; 2) Horticultural Science and Design; 3) Breeding, Biology and Technology; or 4) Turfgrass Science.

Crop Management Emphasis	Cr.	Associate in Arts (NCCMC)	Cr.
Plnt S 3225 – Plant Breeding & Genetics	core		
Plnt S 3210 – Principles of Weed Science	core		
Plnt S 3710 – Introductory Entomology	core		
Plnt S 3715 – Insect Diversity Laboratory	core		
Bio Sc 2200 – General Genetics <u>or</u> Plnt S 3213 – Genetics of Ag Plants & Animals	3-4		
Plnt S 4500 – Biology & Pathogenesis of Plant-Associated Microbes	4		
Plnt S 4730 – Insect Pest Mgmt Plt Protection	3		
Plnt S 4313 – Soil Fertility & Plant Nutrition	3		
Plnt S 4315 – Crop Physiology	3		
System Option (select two): Plnt S 3270 – Forage Crops (3) Plnt S 3275 – Grain Crops (3) Plnt S 3240 – Viticulture I (3)	6		
Management Option (select two): Plnt S 4325 – Field Crop Breeding (3) Plnt S 4340 – Viticulture II (3) Plnt S 4360 – Precision Ag Sci & Tech (3)	6		
TOTAL	28-29		

Horticultural Science and Design Emphasis	Cr.	Associate in Arts (NCCMC)	Cr.
Plnt S 3230 – Plant Propagation	core		
Plnt S 3710 – Introductory Entomology	core		
Plnt S 3715 – Insect Diversity Laboratory	core		
Plnt S 4500 – Biology & Pathogenesis of Plant-Associated Microbes	core		
Plnt S 2075 – Environmental Horticulture	3		
Plnt S 2210 – Ornamental Woody Plants	3		
Plnt S 2215 – Ornamental Herbaceous Plants	3		
Landscape Design & Maintenance Track (select one track)			
Plnt S 2002 – Autocad	3		
Plnt S 2xxx – Landscape Graphics	1		
Plnt S 2254 – Landscape Design	3		
Plnt S 3210 – Principles of Weed Science	4		
Plnt S 3250 – Green Industry Bidding	1		
Plnt S 3355 – Intro to Turfgrass Management	3		
Plnt S 3252 – Arboriculture & Pruning	1		
Horticulture Production, Sales & Management Track (select one track)			
Ag Ec 2223 – Agricultural Sales	3		
Plnt S 3250 – Green Industry Bidding	1		

Plnt S 3260 – Greenhouse Management	4		
Plnt S 4365 – Greenhouse Crops Productions	4		
Mangmt 4010 – Operations Management	3		
Bio Sc 2200 – General Genetics <u>or</u> Plnt S 3213 – Genetics of Ag Plants & Animals	3-4		
TOTAL	25-28		

Breeding, Biology and Technology Emphasis	Cr.	Associate in Arts (NCCMC)	Cr.
Plnt S 3225 – Plant Breeding & Genetics	core		
Plnt S 4500 – Biology & Pathogenesis of Plant-Associated Microbes	core		
Stat 2530 – Statistical Methods in Nat Res	3		
Plnt S 3213 – Genetics of Ag Plants & Animals	3		
Biochm 3630 – General Biochemistry	3		
Chem 2100 – Organic Chemistry I	3		
Soil 4313 – Soil Fertility & Plant Nutrition	3		
Plnt S 3275 – Grain Crops	3		
Plnt S 4400 – Plant Anatomy <u>or</u> Bio Sc 2300 – Introduction to Cell Biology	4		
Plnt S 4315 – Crop Physiology <u>or</u> Plnt S 4320 – Plant Physiology	3		
Plnt S 4325 – Field Crop Breeding <u>or</u> Bio Sc 3210 – Plant Systematics <u>or</u> Bio Sc 4660 – Plant Population Biology	3-4		
TOTAL	28-29		

Turfgrass Science Emphasis	Cr.	Associate in Arts (NCCMC)	Cr.
Plnt S 3710 – Introductory Entomology	core		
Plnt S 3715 – Insect Diversity Laboratory	core		
Plnt S 4500 – Biology & Pathogenesis of Plant-Associated Microbes	core		
Bio Sc 2200 – General Genetics <u>or</u> Plnt S 3213 – Genetics of Ag Plants & Animals	3-4		
Plnt S 3210 – Principles of Weed Science	4		
Plnt S 3355 – Intro Turfgrass Management	3		
Plnt S 4355 – Advan Turfgrass Management	3		
PRTR 1080 – Into to Sport Management	3		
Ag SM 2340 – Pesticide Application Equip	3		
Ag SM 4460 – Irrigation & Drainage	3		
Plnt S 2210 – Ornamental Woody Plants <u>or</u> Plnt S 2215 – Ornamental Herbaceous Plants	3		
Plnt S 3250 – Green Industry Bidding <u>or</u>	1-3		

PRTR 2281 – Business of Sport <u>or</u> PRTR 3185 – Economics & Finance of Sport			
Plnt S 4940 – Internship in Plt Sci (CAP) <u>or</u> Plnt S 4950 – Undergraduate Research (CAP)	3		
TOTAL	29-32		

Electives	Cr.	Associate in Arts (NMC)	Cr.
		AG 103 – Soils & Fertilizers (Soil Science elect)	3
		AG 105 – Plant Science (Plnt Sci 2110)	3
		AG 107 – Animal Science (An Sci 1011)	3
		AG 114 – Crop Science (Plnt S elective)	3

A minimum of 128 credit hours is required for the Bachelor of Science degree. A minimum of 24 credits in 2000-level or above courses; and an additional 24 credits in 3000-level or above courses are required.

TERMS OF AGREEMENT:

This agreement is made and entered into in the academic year 2011-12 and remains in force unless changed in writing by mutual agreement of both parties. The agreement may be amended at any time with the approval of both parties and is subject to regular review to assure currency with the respective degree requirements. Should either party desire to discontinue this agreement, advance notification of two years will be required.

SIGNATURES:

The North Central Missouri College of Trenton, Missouri and the University of Missouri enter into this program articulation agreement leading from the Associate of Arts to the Bachelor of Science degree by the affixing of signatures of the chief executive officers of both institutions.

Thomas L. Payne, Ph.D.
Vice Chancellor and Dean
College of Agriculture, Food and Natural Resources
University of Missouri

_____ Date

Brady J. Deaton, Ph.D.
Chancellor
University of Missouri

_____ Date

Neil Nuttall, Ed.D.
President
North Central Missouri College

_____ Date