

**Appendix A  
Program to Program Articulation Transfer Pathway**

**Effective Date: 09/01/2019**

Transfer pathway accompanies new agreement

Revised transfer pathway for existing agreement

PROGRAM INFORMATION				
	<b>McHenry College, Crystal Lake, IL</b>	<b>University of Wisconsin-Platteville, Platteville, WI</b>		
Program Name	Associate in Engineering Science	Electrical Engineering		
Award Type (i.e. B.S.)	AES	Bachelor of Science		
SECTION A – GENERAL EDUCATION				
UW-Platteville Requirement	Suggested Courses to take within Associate in Engineering Science Degree	UW-Platteville Equivalent	UWP Required Credits	MCC Credits
English Composition	ENG 151 Composition I ENG 152 Composition II	ENGLISH 1130 Freshmen Composition ENGLISH 1230 Freshmen Composition	6-7	6
Entry Year Experience Not needed – with 30 transferrable credits			0 - 1	
Foreign Language § Complete One Semester of College or Two Years of HS			0-4	
Speech		SPEECH 1010 Public Speaking	2	
Mathematics*	MAT 175 Calculus with Analytic Geometry I	MATH 2640 Calculus & Analytical Geometry I	4	5
Wellness §			1	
Physical Activity §			1	
Humanities §	See General Education Course Options		3	3
Fine Arts §	See General Education Course Options		3	3
Historical Perspective §			3	
Social Sciences §	See General Education Course Options		6	6
Natural Sciences*	PHY 291 Principles of Physics I PHY 292 Principles of Physics II	PHYSICS 2240 General Physics I PHYSICS 2340 General Physics II	8	8
International Education §	See General Education Course Options		0-3	
Ethnic and Gender Studies ‡§	See General Education Course Options		0-6	
Additional Natural Science*, Mathematics*, or Social Science	MAT 245 Calculus with Analytic Geometry II	MATH 2740 Calculus & Analytical Geometry II	4	5
<b>Total</b>			<b>40 -55</b>	<b>36</b>

**Special Notes, if any:** \* Courses may count towards the requirements for the major

† Requirements mandated by external professional accrediting associations must be met

‡ Ethnic studies/cultural diversity requirements must be met

§ Transferable courses are listed in Appendix A or are searchable through the Transfer Evaluation System (TES)

(<https://www.uwplatt.edu/admission/transfer-credits>).

General education courses not completed at the sending institution must be completed at UW-Platteville. Associate in Engineering Science will include all Chemistry, Physics, and Math (except Statistical Methods Math (except Statistical Methods) courses. Students must have a Minimum Total Credits of 120 for an Electrical Engineering degree from UW-Platteville.

SECTION B – MAJOR, CONCENTRATION, EMPHASIS, ELECTIVES OR OTHER					
McHenry College, Crystal Lake, IL			University of Wisconsin-Platteville, Platteville WI		
Catalog Subject and Number	Course Name	Credits <small>Student will receive amount of credits completed at McHenry</small>	Catalog Subject and Number	Course Name	Credits <small>Student will receive amount of credits completed at McHenry</small>
MAT 255	Calc./Anal. Geo. III	4	MATH 2840	Calculus & Analytical Geometry III	4
MAT 260 ~	Differential Equations	3	MATH 3630	Differential Equations I	3
CHM 165	General Chemistry I	5	CHEMISTRY 1140	General Chemistry I	5
CHM 166	General Chemistry II	5	CHEMISTRY 1240	General Chemistry II	5
PHY 293	Principles of Physics III	4	PHYSICS 3140	Modern Physics	4
EGR 251	Statics	3	GENENG 2130	Engineering Mechanics-Statics	3
EGR 252	Dynamics	3	GENENG 2230	Engineering Mechanics-Dynamics	3
CSC 121	Computer Science I	4	COMPUTER 1430	Programming in C++	4
<b>Total College Credits Applied from Section B</b>					<b>31</b>

~MAT 260 at McHenry College will transfer as for UW Platteville MATH 3630 Differential Equations for Electrical Engineering Majors.

SECTION C – REMAINING UNIVERSITY OF WISCONSIN-PLATTEVILLE REQUIREMENTS			
Catalog Subject and Number	Course Name	Credits	Course Attribute
GENENG 1030	Introduction to Engineering Projects	1	Major
GENENG 2820	Engineering Economics	2	Major
ENERGY 2130	Energy, Environment, and Society	3	Major
ELECTENG 1020	Electrical Engineering Projects and Tools	1	Major
ELECTENG 1210	Circuit Modeling I	3	Major
ELECTENG 2210	Circuit Modeling II	4	Major
ELECTENG 3220	Signals and Systems	4	Major
ELECTENG 3020	Analog Electronics	4	Major
ELECTENG 3140	Electric and Magnetic Fields	4	Major
ELECTENG 3210	Engineering Computation	3	Major
ELECTENG 3770	Logic & Digital Design	4	Major
<b>Total Remaining UW-Platteville credits</b>		<b>29</b>	

<b>Electrical Engineering Professional Emphasis Electives (Each student must complete a total of 24 credits from the list)<sup>1</sup></b>			
<b>Communications &amp; Electronics Emphasis</b>			
ELECTENG 4260*	Measurements & Instrumentation	4	Required for Emphasis
Choose One of the following			
ELECTENG 4040	Analog IC Design	4	Emphasis elective
ELECTENG 4060	Electronic Communications	4	Emphasis elective
ELECTENG 4430	Power Electronics	4	Emphasis elective
<b>Computer Engineering Emphasis</b>			
ELECTENG 3780	Introduction to Microprocessors	4	Required for Emphasis
ELECTENG 4720	Microcomputer Architecture and Interfacing	4	Required for Emphasis
ELECTENG 4750*	Advanced Digital Design	4	Required for Emphasis
<b>Controls Emphasis</b>			
ELECTENG 3320	Automatic Controls	4	Emphasis prerequisite
ELECTENG 4350*	Discrete Time Control Systems	4	Required for Emphasis
Choose One of the following			
ELECTENG 4310	Modern Control Systems	4	Emphasis elective
ELECTENG 4320	Digital Signal Processing	4	Emphasis elective
<b>Power &amp; Energy Emphasis</b>			
ELECTENG 3410	Introduction to Electrical Machines and Power Systems	4	Emphasis prerequisite
ELECTENG 4450*	Power Systems Analysis & Design	4	Required for emphasis
Choose One of the following			
ELECTENG 4430	Power Electronics	4	Emphasis elective
ELECTENG 4440	Electric Motor Drives	4	Emphasis elective
<b>Other Technical Elective Courses to Fulfill Credit Requirements</b>			
ELECTENG 3130	Solid State Electronic Devices	4	Prerequisite for ELECTENG 4040
ELECTENG 4980	Current Topics in EE	1-4	
ELECTENG 4990	Independent Study	1-4	
Total Remaining UW-Platteville credits		24	

MCHENRY COUNTY COLLEGE GENERAL EDUCATION COURSE OPTIONS		
	General Education	UW-Platteville Req. Credits
Speech §	SPE151	2
Wellness §		1
Physical Activity §		1
Humanities §	ENG240, 251, 253, 254, 255, 256, 260, 261, 270, 271, 272, 275, 276; FRE252; GER252; JRN180; MUS151; PHI151, 160, 240, 251, 261, 262,; SPA252	3
Fine Arts §	ART151, 155, 165, 171, 174, 175; MUS153, 154, 171, 172, ; THE151	3
Historical Perspective §	HIS131, 132, 165, 170, 172; PLT150, 151, 155, 251, 255; PSY151, 251, 260, 265; SOC151, 175, 251, 260, 261	3
Social Sciences §	ANT151, 155, 160, 170; ECO251, 252; GEG202, 203, 204	6
International Education §	ANT155, 160, 170; ART155; ENG251, 254, 276; FRE252; GEG202, 204; GER252; MUS153; PHI160; PLT251, 255	0-3
Ethnic and Gender Studies †§	ENG275; SOC260, 261	0-6

**Contact Information:**

Transfer Coordinator and Advisor  
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Date Created 8.29.2019	Course Equivalencies in TES:	S:\WGroups\Articulation_Agreements_Transfer_Guides\NEW or UPDATED Agreements\2019 New Agreements