

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				
	McHenry College, Crystal Lake, IL	University of Wisconsin-Platteville, Platteville, WI		
Program Name	Associate in Engineering Science	Engineering Physics		
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
Total			42 -55	36

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) courses. Students must have a Minimum Total Credits of 122 for an Engineering Physics 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 Student will receive amount of credit completed at McHenry	Catalog Subject and Number	Course Name	Credits Student will receive amount of credit completed at McHenry
MAT 255	Calc./Anal. Geo. III	5	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
EGR 251	Statics	3	GENENG 2130	Engineering Mechanics-Statics	3
CSC 121	Computer Science I	4	COMPUTER 1430	Programming C++	8
AND CSC 122	Computer Science II	4			
Total College Credits Applied from Section B		32			32

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

SECTION C – REMAINING UNIVERSITY OF WISCONSIN-PLATTEVILLE REQUIREMENTS			
Catalog Subject and Number	Course Name	Credits	Course Attribute
MATH Elective- 3000 level OR ELECTENG 3210	Linear Algebra or Numerical Analysis or Differential Equations II or Statistical Methods or Advanced Calculus or Complex Variables or Engineering Computation Engineering Computation	3	Major
GENENG 1030	Introduction to Engineering Projects	1	Major
GENENG 2030	Engineering Modeling & Design	3	Major
ELECTENG 1210	Circuit Modeling I	3	Major
ELECTENG 2210	Circuit Modeling II	4	Major
ELECTENG 3220	Signals and Systems	4	Major
MECHENG 2630 or GENENG 2630 or GENENG 2340	Thermodynamics or Basic Thermoscience or Mechanics of Materials	3-4	Major
ENGRPHYS 3240	Applied Mechanics	4	Major
ENGRYPHYS 3640	Electric and Magnetic Fields	4	Major
ENGRYPHYS 4010	Engineering Physics Lab	2	Major

ENGRYPHYS 4140	Applied Optics	4	Major
ENGRYPHYS 4210	Sensor Lab	2	Major
ENGRYPHYS 4220	Engineering Quantum Mechanics	2	Major
ENGRPHYS 4930	Engineering Physics Senior Design	3	Major
PHYSICS 3140	Modern Physics	4	Major
<i>Professional Engineering Electives (15 or 16 Credits) Choose from below – one course must be at 4000 level</i>			
ELECTENG Courses	Any 3000-4000 ELECTENG course except 3220, 3950, 3970	2-4	Professional Eng. Elective
MECHENG Courses	Any 3000-4000 MECHENG course except 3030, 3430, 3950, 3970	2-4	Professional Eng. Elective
ENGRPHYS 4980	Special Topics in Engineering Physics	1-3	Professional Eng. Elective
ENGRPHYS 4990**	Independent Study in Engineering Physics	1-4	Professional Eng. Elective
ENGRPHYS 3950**	Engineering Physics Cooperative Education	2	Professional Eng. Elective
ENGR 3970**	Engineering Physics Internship	1	Professional Eng. Elective
MSNT 3940	Principles and Applications of Nanotechnology	4	Professional Eng. Elective
MSNT 4230	Design, Fabrication, and Simulation of MEMS	3	Professional Eng. Elective
SOFTWARE 3430	Object Oriented Analysis and Design	3	Professional Eng. Elective
SOFTWARE 4130	Real-Time Embedded Systems Programming	3	Professional Eng. Elective
INDSTENG 4430	Quality Engineering	3	Professional Eng. Elective
INDSTENG 4730	Engineering Management	3	Professional Eng. Elective
INDSTENG 4630	Manufacturing Systems Design	3	Professional Eng. Elective
INDSTENG 4830	Engineering Continuous Improvement	3	Professional Eng. Elective
Total Remaining UW-Platteville credits		57-58	

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
 UW-Platteville Office of Admission
 608.342.1125 | transfer@uwplatt.edu

UW-PLATTEVILLE OFFICE USE ONLY		
Date Created 8.29.2019	Course Equivalencies in TES:	S:\WGroups\Articulation_Agreements_Transfer_Guides\NEW or UPDATED Agreements\2019 New Agreements