TRANSFER ARTICULATION AGREEMENT
Wichita State Univeristy
Butler Community College
Associate in Applied Science of Engineering Graphics Technology
B.S. Manufacturing Engineering or B.S. Industrial Engineering

Butler AAS Engingeering Graphics Technology Requirements (Mechanical Option)			Recommended AAS Classes Transferable to WSU for BSIE or BSMfgE			Wichita State University BS MfgE Requirements			Wichita State University BS IE Requirements		
Course	Course Name	Cr Hrs	Course	Course Name	Cr Hrs	Course	Course Name	Cr Hrs	Course	Course Name	Cr Hrs
EG 101	English Composition I	3	EG 101	English Composition I	3	ENGL 101	College English I	3	ENGL 101	College English I	3
EG 112	Technical Writing	3	EG 102	English Composition II (Butler?)	3	ENGL 102	College English II	3	ENGL 102	College English II	3
SP 100	Public Speaking	3	SP 100	Public Speaking	3	COMM 111	Public Speaking	3	COMM 111	Public Speaking	3
							Fine Arts Elective	3		Fine Arts Elective	3
						PHIL 385	Engineering Ethics	3	PHIL 385	Engineering Ethics	3
PL 291	Ethics	3	PL 291	Ethics (= PHIL 144 @ WSU)	3		Humanities Elective	3-6		Humanities Elective	3-6
							Social/Behavioral Sci Electives	6-9		Social/Behavioral Sci Electives	6-9
MA 140	Trigonometry (OR higher level)	3	MA 151	Calc I with Analytical Geometry	5	MATH 242	Calculus I	5	MATH 242	Calculus I	5
						MATH 243	Calculus II	5	MATH 243	Calculus II	5
						MATH 344	Calculus III	3	MATH 344	Calculus III	3
						MATH 555	Differential Equations	3	*If have credit for Diff Eq, qualify for Math minor		
									MATH 511	Linear Algebra	3
						IME 254	Engr Probability & Statistics I	3	IME 254	Engr Probability & Statistics I	3
PH 143	Gen Physics (OR higher level)	5	PH 251	Physics I	5	PHYS 313	University Physics I	4	PHYS 313	University Physics I	4
						PHYS 314	University Physics II	4	PHYS 314	University Physics II	4
						CHEM 211	General Chemistry	5	CHEM 211	General Chemistry	5
	Approved Elective	3	EN 260	Statics	3	AE 223	Statics	3	AE 223	Statics	3
						ECE 282	Circuits I	4	ECE 282	Circuits I	4
						IME 255	Engr Economy	3	IME 255	Engr Economy	3
						ME 398	Thermodynamics I	3	ME 398	Thermodynamics I	3
	Approved Elective	3	IN 200	Intro to Programming (BCC) OR	3	ME 325*	Computer Applications	3	MIS 310*	Fundamentals of Programming	3
			IN 264	Visual Basic.NET (BCC)		ME 250/251	Materials Engineering w/ Lab	4	ME 250	Materials Engineering	3
						IME 258	Mfg Methods & Materials I	3	IME 258	Mfg Methods & Materials I	3
EN 214	3D Modeling & CAD	3	EN 214	3D Modeling & CAD	3	IME 222	Eng Graphics	3	IME 222	Eng Graphics	3
						AE 333	Mechanics of Materials	3	IME 452	Work Systems	3
EN 101	Engineering Graphics I	3	Required for AAS but do not count towards WSU IME or MfgE degree			IME 524	Engr Probability & Statistics II	3	IME 524	Engr Probability & Statistics II	3
EN 102	Engineering Graphics II	3				ME 439	Mech Engr Design I	3	IME 549	Industrial Ergonomics	3
EN 107	AutoCAD Basics	3				IME 558	Mfg Methods & Materials II	4	IME 550	Operations Research	3
AR 121	Two-Dimensional Design	3				IME 553	Production Systems	3	IME 553	Production Systems	3
IN 134	Networking Basics	3				IME 554	Statistical Quality Control	3	IME 554	Statistical Quality Control	3
EN 193	Internship I	3				IME 576	Composites Manufacturing	3	IME 556	Information Systems	3
IT 204	Manufacturing Processes	3				IME 664	Engineering Management	3	IME 563	Facilities Planning	2
EN 206	Eng. Graphics Tech Capstone	3				IME 676	Aircraft Mfg & Assembly	3	IME 565	Systems Simulation	3
IT 218	Basic CATIA	3				IME 590	IME Design I	3	IME 590	IME Design I	3
						IME 690	IME Design II	3	IME 690	IME Design II	3
EN 115	Engineering Concepts	2	EN 115	Engineering Concepts	2	IME XXX	Technical Elective	3	IME XXX	Technical Elective	3
IT 263	Intro. to Metrology	3	IT 263	Intro. to Metrology	3	IME XXX	Technical Elective	3	IME XXX	Technical Elective	3
EN 207	AutoCAD Advanced	3	EN 207	AutoCAD Advanced	3	??? XXX	Out-of-Dept Tech Elective	3	??? XXX	Out-of-Dept Tech Elective	3
									??? XXX	Out-of-Dept Tech Elective	3
	TOTAL REQD BUTLER HRS	**64**		**BUTLER to WSU IE HRS**	**39**		**TOTAL WSU MFGE HRS**	**128**		**TOTAL WSU IE HRS**	**128**
				BUTLER to WSU MfgE HRS	**39**		Upper Division @ WSU	53			51
				TOTAL BUTLER HRS TAKEN	**66**		* = OR CS 211- Problem Solving & Programming in C			* = OR CS 211- Problem Solving & Programming in C	