Mechatronics AAS and BS				
Transfer Agreement Between Volunteer State Community College and Austin Peay State University				
APSU Liberal Arts Course	Vol State Transfer - Accepted Courses	**APSU Req. Credits**	**V.S. Credits**	**Remain. Credit**
APSU 1000	Course Requirement Completed through Transfer	1	Waive	0
Communications (9 Cr.)				
ENGL 1010 English Comp I	English 1010 English Composition I	3	3	0
ENGL 1020 English Comp II		3	0	3
COMM 1010 Fund Pub Spkg	SPCH 1010 Fundamentals of Speech	3	3	0
History (6 Cr.)				
		3	0	3
		3	0	3
Humanities (See Catalog 9 Cr.)				
	TBR Humanities Requirement by Vol State	3	3	0
		3	0	3
		3	0	3
Social Sciences (See Catalog 9 Cr.)				
	TBR Social Sciences Requirements by Vol State	3	3	0
		3	0	3
Mathematics (See Catalog 3 Cr.)				
MATH 1530 Elements of Statistics		3	0	3
Natural Sciences (8 Cr.)				
PHYS 2010 College Physics	PHYS 2010 (Physics 1030 not acceptable)	4	4	0
PHYS 2020 College Physics		4	0	4
Liberal Arts Total Credits		**42**	**16**	**25**
APSU Engineering Technology Core	**Vol State Transfer to APSU-ENGT Core**	**APSU Req. Credits**	**V.S. Credits**	**Remain. Credit**
ENGT 1000 Intro into ENGT	ENST 1350 Industrial Safety	3	3	0
ENGT 1020 Computer Aided Design	ENGR 101 Engineering Graphics with CAD	3	3	0
ENGT 2000 Manufacturing Processes	MECH 2425 Mechanics and Machine Elements	3	3	0
ENGT 2010 DC Circuits	MECH 1310 Electrical Components	3	3	0
ENGT 2020 Robotics Fundamentals	MECH 1340 Digital Fundamentals and PLC	3	3	0
ENGT 2030 AC Circuits	MECH 2320 Motor Controls	3	3	0

ENGT 2730 Intro to solid Modeling		3	0	3
ENGT 3000 Material Science		3	0	3
ENGT 3010 Engineering Economics		3	0	3
ENGT 3020 Statics & Strengths of Mat.		3	0	3
ENGT 3030 Thermodynamics		3	0	3
ENGT 3040 Power Transfer		3	0	3
ENGT 3050 Problem Solving		3	0	3
MATH 1730 or ENGT 1200	MATH 1710 Pre-Calculus (Transfers in as ENGT 1200)	3	3	0
MATH 1810 or ENGT 1400		3	0	3
Engineering Technology Core Credits		**45**	**21**	**24**
APSU Mechatronics Engineering Technology Concentration	**Vol State Transfer to APSU-ENGT Core Mechatronics Concentration**	**APSU Req. Credits**	**V.S. Credits**	**Remain. Credit**
MET 2100 Process Control Technologies	MECH 2440 Process Control Technologies	3	3	0
MET 3200 Industrial Totally Integrated Automation	MECH 2441 Introduction to Totally Integrated Automation	3	3	0
MET 3300 Advanced Automation Systems	MECH 2480 Automation Systems	3	3	0
MET 3400 Electromechanical Power		3	0	3
MET 3500 Machine Dynamics		3	0	3
MET 3600 Integrated Manufacturing		3	0	3
MET 4100 Project and Process Management		3	0	3
MET 4160 Mechatronics Capstone		3	0	3
Elective:	Any 3 hr. Unused MECH Course	3	3	0
Elective:	Any 3 hr. Unused MECH Course	3	3	0
Elective:	Any 3 hr. Unused MECH Course	3	3	0

Electives: MET 1100, MET 1200, MET 1300, MET 1500, MET 2300, MET 2500. Additional electives may be transferred in from other institutions with advisor approval.				
Mechatronics Engineering Technology Concentration Total Credits		**33**	**18**	**15**
	Total Required Semester Hours: 120	120		
	Vol State Semester Hours Awarded: 49		55	
	Remaining APSU Semester Hours:			64