

## Attachment A

<b>MECHATRONICS AAS and BS</b>				
<b>Transfer Agreement Between Volunteer State Community College and Austin Peay State University</b>				
APSU Liberal Arts Core	Vol State Transfer - Accepted Courses	APSU Req. Credits	V.S. Credits	Remain. Credit
APSU 1000	Course Requirement Completed Through Transfer	1	Waive	0
<b>Communications (9 Cr.)</b>				
ENGL 1010 English Comp I	ENGL 1010 English Composition 1	3	3	0
ENGL 1020 English Comp II		3	0	3
COMM 1010 Fund Pub Spkg	SPCH 1010 Fundamentals of Speech	3	3	0
<b>History (6 Cr.)</b>				
		3	0	3
		3	0	3
<b>Humanities (See Catalog 9 Cr.)</b>				
	TBR Humanities Requirement by Vol State	3	3	0
		3	0	3
		3	0	3
<b>Social Sciences (See Catalog 6 Cr.)</b>				
	TBR Social Sciences Requirement by Vol State	3	3	0
		3	0	3
<b>Mathematics (See Catalog 3 Cr.)</b>				
MATH 1530 Elements of Statistics		3	0	3
<b>Natural Sciences (8 Cr.)</b>				
PHYS 2010 College Physics	PHYS 2010 (Physics 1030 not Acceptable)	4	4	0
PHYS 2020 College Physics		4	0	4
<b>Liberal Arts Total Credits</b>		<b>42</b>	<b>16</b>	<b>25</b>
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 Robotic Fundamentals	MECH 1340 Digital Fundamentals and PLC	3	3	0
ENGT 2030 AC Circuits	MECH 2320 Motor Controls	3	3	0
ENGT 2730 Intro into 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
<b>Engineering Technology Core Credits</b>		<b>45</b>	<b>21</b>	<b>24</b>
<b>APSU Mechatronics Engineering Technology Concentration</b>	<b>Vol State Transfer to APSU-ENGT Mechatronics Concentration</b>	<b>APSU Req. Credits</b>	<b>V.S. Credits</b>	<b>Remain. Credit</b>
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.				
<b>Mechatronics Engineering Technology Concentration Total Credits</b>		<b>33</b>	<b>18</b>	<b>15</b>
<b>Total Required Semester Hours:</b>		<b>120</b>	<b>120</b>	
<b>Vol State Semester Hours Awarded:</b>		<b>49</b>	<b>55</b>	
<b>Remaining APSU Semester Hours:</b>				<b>64</b>