

**2+2 ARTICULATION AGREEMENT 2019-2020 (Pending Approval)**  
**Pellissippi State Community College: AAS in Mechanical Engineering Technology**  
**and**  
**Austin Peay State University: BS in Mechanical Engineering Technology**

PSCC: Associate of Applied Science - Mechanical Engineering Technology			APSU: Bachelor of Science - Mechanical Engineering Technology		
Course Number	Course Title	Credit	Course Number	Course Title	Credit
<b>General Education Core (41 semester hours, 13 required)</b>			<b>General Education Core (41 semester hours)</b>		
ENGL 1010	English Composition I	3	ENGL 1010	English Composition I	3
*ENGL 1020	English Composition II	3	ENGL 1020	English Composition II	3
COMM 2045	Public Speaking	3	COMM 2045	Public Speaking	3
*HIST 2010	US History I	3	HIST 2010	American History I	3
*HIST 2020	US History II	3	HIST 2020	American History II	3
*ENGL 2310 or 2320	World Literature	3	ENGL 2330	Topics in World Literature	3
Humanities Elec.	ARTH, HUM, MUS, PHIL, THEA	3	Humanities Elec.	ART, MUS, PHIL, THEA	3
*Humanities Elec.	ARTH, HUM, MUS, PHIL, THEA	3	Humanities Elec.	ART, MUS, PHIL, THEA	3
*MATH 1530	Elementary Probability & Statistics	3	MATH 1530	Elements of Statistics	3
PHYS 2010	Non-Calculus Based Physics I	4	PHYS 2010/2011	College Physics I w/lab	4
*PHYS 2020	Non-Calculus Based Physics II	4	PHYS 2020/2021	College Physics II w/lab	4
Social/Behavioral Science Elec.	ANT, ECON, GEOG, HIST, PHED, POLS, PSYC, SOCI, WMN	3	Social/Behavioral Science Elec.	AAST, COMM, ECON, GEOG, HHP, POLS, PSY, SOC, WS	3
*Social/Behavioral Science Elec.	ANT, ECON, GEOG, HIST, PHED, POLS, PSYC, SOCI, WMN	3	Social/Behavioral Science Elec.	AAST, COMM, ECON, GEOG, HHP, POLS, PSY, SOC, WS	3
<b>Mechanical Concentration</b>			<b>Engineering Technology Core (45 semester hours)</b>		
ENGT 1310	Computers in Engineering Technology	3	ENGT 1000	Introduction to Engineering Technology	3
ENST 1311	CAD I	3	ENGT 1020	Computer Aided Design	3
ENST 1370	Manufacturing Processes	3	ENGT 2000	Manufacturing Processes	3
++EETC 1313	DC Circuits	3	ENGT 2010	DC Circuits	3
EETC 2350	Integrated Robotics	3	ENGT 2020	Robotic Fundamentals	3
++EETC 1314	AC Circuits	3	ENGT 2030	AC Circuits	3
**ENST 1312	CAD II	3	ENGT 2730	Introduction to Solid Modeling	3
METC 2310	Strength of Materials	3	ENGT 3000	Materials Science	3
			ENGT 3010	Engineering Economics	3
METC 1310	Statics w/Applications	3	ENGT 3020	Statics and Strength of Materials	3
			ENGT 3030	Thermodynamics	3
METC 1320	Fluid Mechanics	3	ENGT 3040	Power Transfer Technology	3
			ENGT 3050	Problem Solving	3
MATH 1730	Pre-calculus	5	ENGT 1200 or MATH 1730	Applied Mathematics for Engineering Technology (Pre-calculus)	3/4
*MATH 1830	Applied Calculus	4	ENGT 1400 or MATH 1810	Applied Calculus for Engineering Technology (Elements of Calculus)	3
<b>Mechanical Concentration (continued)</b>			<b>Mechanical Concentration (33 semester hours)</b>		
METC 2320	Mechanical System Design	3	ENGT 3840	Dynamics	3
			ENGT 3880	Direct Energy Conversion	3
			ENGT 4710	Fluid Mechanics	3
			ENGT 4730	Applied Solid Modeling	3
			ENGT 4800	Machine Design	3
			ENGT 4880	Refrigeration Machines	3
			ENGT 4895	Mechanical Capstone	3
			(4) ENGT Elec.	Electives: ENGT 3860, 3890, 4820, 3130, 3190, 4130, 3100, 4150, 4850, 3850, 4810, 3810, 3830, 3610, 3650, 3720, 4720, 3330, 4991	12
<b>Additional Concentration Courses</b>			<b>APSU Transfer Equivalency</b>		
ENST 1340	Machine Tool Tech.	3	-----	No Equivalent Course	0
ENST 2390	Capstone	3	-----	No Equivalent Course	0
++EETC 1350	Electrical Tech for MET	3	-----	No Equivalent Course	0
ENST 1351	Geometrics and Coordinate Measuring	3		No Equivalent Course	0
ENST 1372	3-D Additional Manufacturing	3	-----	No Equivalent Course	0
<b>Total PSCC Requirements: 61 Hours</b>			<b>Total APSU Requirements: 120 Hours</b>		
<p><b>Note 1:</b> APSU is allowing lower division courses to substitute for some required upper division courses. However, 33 semester hours of upper-division credit, from department approved courses numbered 3000 – 4999, are required as partial degree requirements.</p> <p><b>Note 2:</b> General Education Core courses transferred from PSCC must match courses within the same General Education Core categories at APSU to meet requirements. They should also be from two different disciplines.</p> <p><b>Note 3:</b> General education Core courses identified with an asterisk (*) are not required for the PSCC degree in Mechanical Engineering Technology.</p> <p><b>Note 4:</b> ++ Combination of DC &amp; AC Circuits should be taken in the place of EETC 1350 for transfer to APSU.</p> <p><b>Note 5:</b> **ENST 1312 should be selected as the Engineering Technology Elective for the AAS degree.</p>					