

**Transfer Agreement Checklist**  
Associate of Science in Technology & Engineering  
Bachelor of Science in Biomedical Engineering

**2023-2024**

**University of Arkansas Pulaski Technical College**  
Associate of Science in Technology & Engineering

English / Communications (6 credit hours)			UA	Semester	Hours	Grade
ENGL	1311	English Composition I	ENGL 1013		3	
ENGL	1312	English Composition II	ENGL 1023		3	

Mathematics (4 credit hours)			UA	Semester	Hours	Grade
MATH	1404	Calculus I	MATH 2554		4	

Sciences (8 credit hours)			UA	Semester	Hours	Grade
BIOL	1302/1102	Biological Science/Lab	BIOL 1543/1541L		4	
BIOL	2301/2101	Microbiology/Lab	BIOL 2013/2011L		4	

Fine Arts/Humanities (6 credit hours)			UA	Semester	Hours	Grade
ARTS	2300	Introduction to Visual Arts or	ARHS 1003		3	
MUSC	2300	Introduction to Music or	MLIT 1003			
THEA	2300	Introduction to Theatre	THTR 1003			
ENGL	2337	World Literature from the Beginning to 1650 or	WLIT 1113		3	
ENGL	2338	World Literature from 1650 to the Present	WLIT 1123			

Social Sciences (12 credit hours)			UA	Semester	Hours	Grade
HIST	2311	U.S. History to 1877 or	HIST 2003		3	
HIST	2312	U.S. History since 1877 or	HIST 2013			
POLS	1310	American National Government	PLSC 2003			
HIST	1311	History of Civilization I or	HIST 1113		3	
HIST	1312	History of Civilization II	HIST 1123			
ECON	2323	Principles of Macroeconomics or	ECON 2013		3	
ECON	2322	Principles of Microeconomics	ECON 2023			
ECON	2323	Principles of Macroeconomics (if not chosen above) or	ECON 2013		3	
ECON	2322	Principles of Microeconomics (if not chosen above) or	ECON 2023			
HIST	1311	History of Civilization I (if not chosen above) or	HIST 1113			
HIST	1312	History of Civilization I (if not chosen above) or	HIST 1123			
HIST	2311	U.S. History to 1877 (if not chosen above) or	HIST 2003			
HIST	2312	U.S. History since 1877 (if not chosen above) or	HIST 2013			
POLS	1310	American National Government (if not chosen above) or	PLSC 2003			
PSYC	2300	Psychology and the Human Experience or	PSYC 2003			
SOCI	2300	Introduction to Sociology	SOCI 2013			

Engineering Requirements (27 credit hours)			UA	Semester	Hours	Grade
MATH	1405	Calculus II	MATH 2564		4	
MATH	2406	Calculus III	MATH 2574		4	
CHEM	1305/1105	General Chemistry I/Lab	CHEM 1103/1101L		4	
CHEM	1306/1106	General Chemistry II/Lab	CHEM 1123/1121L		4	
PHYS	1305/1105	Advanced College Physics I/Lab	PHYS 2054		4	
		STEM-Prep Elective from UA – University Physics II	PHYS 2074		4	
		STEM-Prep Elective from UA – Intro to Engineering	GNEG 1103		3	

**UA-PTC Total Hours: 63**

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			Semester	Hours	Grade
BMEG	2614	Introduction to Biomedical Engineering		4	
BMEG	2813	Biomechanical Engineering		3	
MATH	2584	Elementary Differential Equations		4	
BMEG	2904	Biomedical Instrumentation with Lab		4	
CHEG	2313	Thermodynamics of Single-Component Systems or		3	
MEEG	2403	Thermodynamics			
BIOL	2533	Cell Biology		3	
MATH	3083	Linear Algebra		3	
BMEG	3634	Biomaterials with Lab		4	
BMEG	3124	Biomedical Signals and Systems with Lab		4	
CHEM	3603/3601L	Organic Chemistry I and Lab		4	
BMEG	3653	Biomedical Modeling and Numerical Methods		3	
BMEG	3824	Biomolecular Engineering with Lab		4	
BMEG	3801	Clinical Observations and Needs Finding		1	
CHEG	2133	Fluid Mechanics or		3	
MEEG	3503	Mechanics of Fluids			
BIOL	2213/2211L	Human Physiology with Lab		4	
STAT	2823	Biostatistics		3	
BMEG	4813	Biomedical Engineering Design I		3	
BMEG	4623	Biomedical Transport Phenomena		3	
	Elective	BMEG Elective		3	
BMEG	4823	Biomedical Engineering Design II		3	
	Elective	BMEG Elective		3	
	Elective	BMEG Elective		3	

UA Total Hours: 72

Total Hours: 135