

Transfer Agreement Checklist
Associate of Science in Technology & Engineering
Bachelor of Science in Biological 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	2322	Principles of Microeconomics (if not chosen above) or	ECON 2023		3	
ECON	2323	Principles of Macroeconomics (if not chosen above) or	ECON 2013			
PSYC	2300	Psychology and the Human Experience or	PSYC 2003			
SOCI	2300	Introduction to Sociology or	SOCI 2013			
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			
HIST	1311	History of Civilization I (if not chosen above) or	HIST 1113			
HIST	1312	History of Civilization I (if not chosen above)	HIST 1123			

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
BENG	2632	Biological Engineering Design Studio		2	
BENG	2643	Biological Engineering Methods I		3	
MATH	2584	Elementary Differential Equations		4	
MEEG	2003	Statics		3	
MEEG	2403	Thermodynamics or		3	
CHEG	2313	Thermodynamics of Single-Component Systems			
BENG	3733	Transport Phenomena in Biological Systems		3	
BENG	3653	Global Bio-Energy Engineering		3	
BENG	3663	Biological Engineering Methods II		3	
CHEM	3603/3601L 2613/2611L	Organic Chemistry I/Lab or Organic Physiological Chemistry/Lab		4	
CVEG	3213	Hydraulics or			
MEEG	3503	Mechanics of Fluids or		3	
CHEG	2133	Fluid Mechanics			
BENG	3723	Unit Operations in Biological Engineering		3	
BENG	3113	Measurement and Control for Biological Systems		3	
CVEG	3223	Hydrology		3	
	Elective	Biological Elective		3	
	Elective	Technical Elective		3	
BENG	4812	Senior Biological Engr. Design I		2	
BENG	4831	Biological Engineering Professionalism		1	
BENG	4743	Food and Bio-Product Systems Engineering		3	
BENG	4933	Sustainable Watershed Engineering		3	
BENG	4823	Senior Biological Eng. Design II		3	
BENG	4663	Sustainable Biosystems Designs		3	
	Elective	Technical Elective (Engineering)		3	
	Elective	Technical Elective		3	

UA Total Hours: **67**

Total Hours: **130**