

**2+2 Degree Plan Checklist**  
**Associate of Science in Technology and Engineering**  
**Bachelor of Science in Computer Science**



**University of Arkansas-Pulaski Technical College<sup>1</sup>**  
**Associate of Science in Technology and Engineering<sup>2</sup>**  
**General Education Requirements (38 credit hours)**

<b>English/Communication (6 credit hours)</b>			<b>UCA<sup>3</sup></b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
ENGL	1311	English Composition I	WRID 1310		3	
ENGL	1312	English Composition II	WRID 1320		3	

<b>Mathematics (3 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
MATH	1302	College Algebra	MATH 1390		3	

<b>Lab Sciences (8 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
BIOL	1102/1302	Biological Science and Lab	BIOL 1440		4	
CHEM	1105/1305	General Chemistry 1 and Lab	CHEM 1450		4	
PHYS	1102/1302	College Physics 1 and Lab	PHYS 1410			

<b>Arts and Humanities (3 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
ARTS	2300	<b>Choose one:</b> Introduction to Visual Art	ART 2300		3	
MUSC	2300		MUS 2300			
THEA	2300		THEA 2300			
ENGL	2337	<b>Choose one:</b> World Literature from the Beginning to 1650	ENGL 2305		3	
ENGL	2338		ENGL 2306			

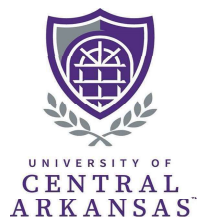
<b>Social Sciences (6 Credit Hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
HIST	2311	<b>Choose one:</b> US History to 1877	HIST 2301		3	
HIST	2312		HIST 2302			
POLS	1310		PSCI 1330			
HIST	1311	<b>Choose one:</b> History of Civilization I	HIST 1310		3	
HIST	1312		HIST 1320			

<b>Social Sciences/Oral Communications (6 Credit Hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
SPCH	1300	Speech Communications	COMM 1300		3	
ECON	2322	<b>Choose one:</b> Principles of Microeconomics Principles of Macroeconomics Psychology and the Human Experience Introduction to Sociology (or other ASTE Social Science)	ECON 2321		3	
ECON	2323		ECON 2320			
PSYC	2300		PSYC 1300			
SOCI	2300		SOC 1300			

**Computer Science Foundation (25 credit hours)**

			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
CIS	2514	Introduction to Computer Science I	CSCI 1470		4	
CIS	2644	Introduction to Computer Science II	CSCI 1480		4	
CIS	2733	Data Structures	CSCI 2320		3	
MATH	1303	Trigonometry	MATH 1392		3	
MATH	1404	Calculus I	MATH 1496		4	
MATH	2320	Introduction to Statistics and Probability	MATH 2311		3	
		<i>ASTE Approved Electives</i>			4	

**Total Hours: 60<sup>4</sup>**



**2+2 Degree Plan Checklist**  
**Associate of Science in Technology and Engineering**  
**Bachelor of Science in Computer Science**



**University of Central Arkansas**  
**Bachelor of Science in Computer Science**  
**UCA Courses (60 credit hours)<sup>5</sup>**

			Semester	Hours	Grade
CSCI	2335	Networking		3	
CSCI	2330	Discrete Mathematics for Computing		3	
CSCI	3330	Algorithms		3	
CSCI	3360	Database Systems (UD UCA Core: C)		3	
CSCI	3370	Principles of Programming Languages		3	
CSCI	3380	Computer Architecture		3	
CSCI	3381	Object-Oriented Software Development with Java		3	
CSCI	4300	Operating Systems		3	
CSCI	4315	Information Security (UD UCA Core: R)		3	
CSCI	4321	Ethical Implications (UD UCA Core: D, R)		3	
CSCI	4490	Software Engineering (UD UCA Core: Z)		4	
		<b><u>Choose at least 12 Credit Hours:</u></b>			
CSCI	3V75	Internship			
CSCI	3345	Human-Computer Interaction			
CSCI	3382	Multi-Core & Multithreaded Programming			
CSCI	3385	Artificial Intelligence			
CSCI	4V95	Independent Study			
CSCI	4305	Linux/UNIX Systems			
CSCI	4340	Introduction to Parallel Programming			
CSCI	4350	Computer Graphics			
CSCI	4352	Introduction to Game Programming			
CSCI	4353	Introduction to Multimedia Computing			
CSCI	4357	Programming Mobile Devices			
CSCI	4365	Web Technologies			
CSCI	4370	Data Mining			
CSCI	4371	Machine Learning			
CSCI	4372	Data Clustering			
		<b><u>Choose one:</u></b>			
CSCI	4390	Theory of Computation			
MATH	1497	Calculus II		3-4	
MATH	3311	Statistical Methods			
MATH	3320	Linear Algebra (UD UCA Core: I)		3	
		General Electives		7-8	

**Total Hours: 120<sup>6</sup>**

<sup>1</sup> Please see your UA-PTC advisor for degree and graduation information.

<sup>2</sup> Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at UA-PTC, not to precede the academic year during which the agreement first took effect. A period of non-enrollment of 12 months or more requires that the student adhere to the agreement revision corresponding with the academic year of re-enrollment.

<sup>3</sup> UCA course is either guaranteed by ACTS (acts.adhe.edu) or by UCA Department Chair approval (if blank, elective credit will be awarded).

<sup>4</sup> Students completing the AS in Technology and Engineering degree requirements, as shown above, with a minimum 2.0 cumulative GPA, will have satisfied the UCA Lower-Division Core and be admitted to the BS in Computer Science degree program as a junior.

<sup>5</sup> In order to receive important communications about transferring to UCA, students are encouraged to create a UCA student account at [admissions.uca.edu/apply/](https://admissions.uca.edu/apply/). For more information about the 2+2 program, students may also send email inquiries to [ucatransfer@uca.edu](mailto:ucatransfer@uca.edu).

<sup>6</sup> This agreement requires 120 credit hours as follows: maximum 60 at UA-PTC and remaining 60 at UCA (40 of which must be upper-division).