

Central Virginia Tech Prep Consortium

Contact the consortium director or your school guidance counselor for more information

Computer Science: Computer Science (AS)

Subjects	SECONDARY (High School)				POSTSECONDARY (Piedmont Virginia Community College)				
	Freshman	Sophomore	Junior	Senior	Freshman A	Freshman B	Summer	Sophomore A	Sophomore B
Math	Algebra I (3130)	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Calculus with Analytic Geometry I (MTH 173)**	Calculus with Analytic Geometry II (MTH 174)**			
	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Calculus with Analytic Geometry I & II (MTH 173-174)					
English	English 9 (1130)	English 10 (1140)	English 11 (1150)	English 12 (1160)	College Comp. I (ENG 111)**	College Comp. II (ENG 112)**			
				College Comp. I & II (ENG 111-112)**					
Science	Earth Science (4210)	Biology (4310)	Chemistry (4410)	General Biology I & II with Lab (BIO 101-102)**				Science with Laboratory**	Science with Laboratory**
Social Studies/ Humanities	World Geography (2210) or World History (2340)		VA/US History (2360)	VA/US Gov. (2440)	Humanities Elective	Social Science Elective**		Social Science Elective**	Social Science Elective**
			US History I-II or US Government I-II (HIS 121-122)** (PLS 211-212)**						
Health/PE	P.E. (7305)	P.E. (7405)				Health / PE Elective (HLT/PED)		Health / PE Elective (HLT/PED)	
Career and Technical Education	Technology Foundations (8403)	Technology Transfer (8405)	Electricity and Cabling I (8533)*	Electricity and Cabling II (8534)*				Technical Elective	Technical Elective
	Keyboarding (6151) or Keyboarding Apps (6152)*	Programming (6640)	Computer Information Systems (6612/6613)*		Introduction to Computing (CSC 110)	Computer Science I (CSC 201)		Computer Science II (CSC 202)	Computer Organization (CSC 205)
Other				Fundamentals of Speech (1300)	Orientation (SDV 101)				

It is recommended that students maintain a career portfolio, and obtain field experience (i.e. observation, shadowing, internship, mentorship, etc.) as a high school Junior and/or Senior.

Prerequisite course AST 117 may be waived based on educational experience

* Articulated Credits ** Dual Enrollment 33 Credits

Central Virginia Tech Prep Consortium

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Electronics Technology: Electronics Technology (AAS)

Subjects	SECONDARY (High School)				POSTSECONDARY (Piedmont Virginia Community College)					
	Freshman	Sophomore	Junior	Senior	Freshman A	Freshman B	Summer	Sophomore A	Sophomore B	
Math	Algebra I (3130)	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Technical Math I (MTH 115)	Technical Math II (MTH 116)				
	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Pre-Calculus I (MTH 163)**						
				Applied Calculus I (MTH 271)**						
English	English 9 (1130)	English 10 (1140)	English 11 (1150)	English 12 (1160)	College Comp. I (ENG 111)**	College Comp. II (ENG 112)** or Technical Writing (ENG 115)			Principles of Public Speaking (SPD 100)	
				College Comp. I & II (ENG 111-112)**						
Science	Earth Science (4210)	Biology (4310)	Chemistry (4410)							
Social Studies/ Humanities	World Geography (2210) or World History (2340)		VA/US History (2360)	VA/US Gov. (2440)					Social Science Elective**	
			US History I-II or US Government I-II (HIS 121-122)** (PLS 211-212)**						Social Science Elective**	
Health/PE	P.E. (7305)	P.E. (7405)			Health / PE Elective (HLT/PED)				Health/PE Elective (HLT/PED)	
Career and Technical Education	Technology Foundations (8403)	Technology Transfer (8405)	Electricity and Cabling I (8533)*	Electricity and Cabling II (8534)*	Intro. Electrical/ Electronics Drafting (DRF 130)	Electronic Devices I (ETR 203)		Introduction to Electrical Machines (ETR 219)	Electronic Communications I (ETR 241)	
	Keyboarding (6151) or Keyboarding Apps (6152)*	Programming (6640)	Computer Information Systems (6612/6613)*		DC and AC Fundamentals I (ETR 113)*	DC and AC Fundamentals II (ETR 114)		Electronic Devices II (ETR 204)	Machine Control Using Relay & Programmable Logic (ETR 150)	
					Introduction to Computing (CSC 110)	Introduction to Digital Logic Circuits and Computers (ETR 280)	Internship (ETR 290)	Technical Elective*		
Other				Fundamentals of Speech (1300)	Orientation (SDV 101)			Microprocessor Applications (ETR 263)		

Prerequisite course AST 117 may be waived based on educational experience

* Articulated 7 Credits ** Dual Enrollment 18 Credits

Central Virginia Tech Prep Consortium

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Electronics Technology: Specialization in PC Support and Networking (AAS)

Subjects	SECONDARY (High School)				POSTSECONDARY (Piedmont Virginia Community College)				
	Freshman	Sophomore	Junior	Senior	Freshman A	Freshman B	Summer	Sophomore A	Sophomore B
Math	Algebra I (3130)	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Technical Math I (MTH 115)	Technical Math II (MTH 116)			
	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Pre-Calculus (MTH 163)** Applied Calculus I (MTH 271)**					
English	English 9 (1130)	English 10 (1140)	English 11 (1150)	English 12 (1160)	College Comp. I (ENG 111)**	College Comp. II (ENG 112)** or Technical Writing (ENG 115)			Principles of Public Speaking (SPD 100)
				College Comp. I & II (ENG 111-112)**					
Science	Earth Science (4210)	Biology (4310)	Chemistry (4410)						
Social Studies/ Humanities	World Geography (2210) or World History (2340)		VA/US History (2360)	VA/US Gov. (2440)	Social Science Elective**				Social Science Elective**
		US History I-II or US Government I-II (HIS 121-122** (PLS 211-212)**							
Health/PE	P.E. (7305)	P.E. (7405)				Health/PE Elective (HLT/PED)		Health/PE Elective (HLT/PED)	
Career and Technical Education	Technology Foundations (8403)	Computer Information Systems (6612/6613)*		Computer Network Software Operations (6650)*	Introduction to Network Concepts (ITN 101)*	Electronics Devices I (ETR 203)		Upgrading and Maintaining PC Hardware (ETR 164)*	Electronic Communications I (ETR 241)
	Keyboarding (6151) or Keyboarding Applications (6152)*	Programming (6640) Technology Transfer (8405)	Electricity and Cabling I (8533)*	Electricity and Cabling II (8534)*	Introduction to Computing (CSC 110)	DC and AC Fundamentals I (ETR 113)*	Introduction to Digital Logic Circuits and Computer (ETR 280)	Electronic Devices II (ETR 204)	ITN Networking Elective
			Computer Systems Technology I (8622)*	Computer Systems Technology II (8623)*		ITN Networking Elective*			
Other				Fundamentals of Speech (1300)	Orientation (SDV 101)			Microprocessor Applications (ETR 263)	PC Repair (ETR 149)

Prerequisite course AST 117 may be waived based on educational experience.

* Articulated 11 Credits ** Dual Enrollment 18 Credits

Central Virginia Tech Prep Consortium

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Electronics Technology: PC Upgrading and Repair (CSC)

Subjects	SECONDARY (High School)				POSTSECONDARY (Piedmont Virginia Community College)				
	Freshman	Sophomore	Junior	Senior	Freshman A	Freshman B	Summer	Sophomore A	Sophomore B
Math	Algebra I (3130)	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)					
English	English 9 (1130)	English 10 (1140)	English 11 (1150)	English 12 (1160)					
Science	Earth Science (4210)	Biology (4310)	Chemistry (4410)						
Social Studies/ Humanities	World Geography (2210) or World History (2340)		VA/US History (2360)	VA/US Gov. (2440)					
Health/PE	P.E. (7305)	P.E. (7405)							
Career and Technical Education	Keyboarding (6151) or Keyboarding Apps. (6152)*		Computer Information Systems (6612/6613)*	Programming (6640)	Introduction to Computing (CSC 110)	Upgrading and Maintaining PC Hardware (ETR 164)*			
			Computer Systems Technology I (8622)*	Computer Systems Technology II (8623)*		PC Repair (ETR 149)			
Other				Electronic Systems I (8416)	Electronics I (ETR 141)*	Microcomputer Operating Systems (ITN 106)			

It is recommended that students maintain a career portfolio and obtain field experience (i.e. observation, shadowing, internship, mentorship, etc.) as a high school Junior and/or Senior.

Prerequisite course AST 117 may be waived based on educational Experience.

* Articulated 6 Credits ** Dual Enrollment

Central Virginia Tech Prep Consortium

Contact the consortium director or your school guidance counselor for more information

Information Systems Technology: Specialization in Computer Applications (AAS)

Subjects	SECONDARY (High School)				POSTSECONDARY (Piedmont Virginia Community College)				
	Freshman	Sophomore	Junior	Senior	Freshman A	Freshman B	Summer	Sophomore A	Sophomore B
Math	Algebra I (3130)	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Technical Math (MTH 115)	Business Statistics I (BUS 220) or (MTH 240)			
	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Pre-Calculus I (MTH 163)** Applied Calculus I (MTH 271)**					
English	English 9 (1130)	English 10 (1140)	English 11 (1150)	English 12 (1160)	College Comp. I (ENG 111)**	College Comp. II (ENG 112) **or Technical Writing (ENG 115)			Principles of Public Speaking (SPD 100)
				College Comp. I & II (ENG 111-112)**					
Science	Earth Science (4210)	Biology (4310)	Chemistry (4410)						
Social Studies/ Humanities	World Geography (2210) or World History (2340)		VA/US History (2360)	VA/US Gov. (2440)				Humanities Elective	Social Science Elective** Social Science Elective**
			US History I-II or US Government I-II (HIS 121-122)** (PLS 211-212)**						
Health/PE	P.E. (7305)	P.E. (7405)			Health/PE Elective (HLT/PED)				Health / PE Elective (HLT/PE)
Career and Technical Education			Computer Information Systems (6612/6613)*	Word processing (6625) Advanced Programming (6641)	Computer Applications and Concepts (ITE 115)*	Advanced Computer Applications (ITE 215)		IST/ETR/IT Elective or Upgrading and Repairing PC Hardware (ETR 164)*	Machine Control Using Relay & Programmable Logic (ETR 150)
	Keyboarding (6151) or Keyboarding Apps. (6152) *	Electronic Commerce (8125) Programming (6640) Business Management (6135)*	Desktop/Multimedia Presentations (6630)	Computer Network Software Operations (6650)*	Introduction to Business (BUS 100)*	Introduction to Network Concepts (ITN 101)*			Web Page Design I (ITD 110) E-Mail Essentials (ITE 175) IT Elective
			Computer Systems Technology I (8622)*	Computer Systems Technology II (8623)*	Beginning Windows (ITE 127)				

Other		Prin. of Business & Marketing (8115)	Advanced Marketing (8130)*	Accounting (6320/6321)	Orientation (SDV 101)	Principles of Marketing (MKT 100)*		Principles of Accounting I And Lab. (ACC 211-213)	
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Prerequisite course AST 117 may be waived based on educational experience.

* Articulated 16 Credits ** Dual Enrollment 18 Credits

Central Virginia Tech Prep Consortium

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Information Systems Technology: Specialization in Programming (AAS)

Subjects	SECONDARY (High School)				POSTSECONDARY (Piedmont Virginia Community College)				
	Freshman	Sophomore	Junior	Senior	Freshman A	Freshman B	Summer	Sophomore A	Sophomore B
Math	Algebra I (3130)	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Technical Math (MTH 115)	Business Statistics I (BUS 220) or (MTH 240)			
	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Pre-Calculus I (MTH 163)** Applied Calculus I (MTH 271)**					
English	English 9 (1130)	English 10 (1140)	English 11 (1150)	English 12 (1160)	College Comp. I (ENG 111)**	College Comp. II (ENG 112) **or Technical Writing (ENG 115)			
				College Comp. I & II (ENG 111-112)**					
Science	Earth Science (4210)	Biology (4310)	Chemistry (4410)						
Social Studies/ Humanities	World Geography (2210) or World History (2340)		VA/US History (2360)	VA/US Gov. (2440)				Humanities Elective	Social Science Elective**
			US History I-II or US Government I-II (HIS 121-122)** (PLS 211-212)**				Macroeconomics (ECO 201) or Microeconomics (ECO 202)		
Health/PE	P.E. (7305)	P.E. (7405)			Health/PE Elective (HLT/PED)			Health / PE Elective (HLT/PED)	
Career and Technical Education			Computer Information Systems (6612/6613)*	Desktop/Multimedia Publishing (6630) Advanced Programming (6641)	Introduction to Computing (CSC 110)	Advanced Computer Applications (ITE 215)		IT/ETR Elective	ITP Elective or
							Upgrading and Maintaining PC (ETR 164)	Social Science Elective **	
	Keyboarding (6151) or Keyboarding	Electronic Commerce (8125)	Programming (6640)	Computer Network Software (6650)*	Beginning Windows (ITE 127)	Introduction to Network Concepts (ITN 101)*		ITP Elective Web Page	Desktop Database Software (ITE 150)

	Apps. (6152)*		Computer Systems Technology I (8622)*	Computer Systems Technology II (8623)*	Introduction to Business (BUS 100)*	Java Programming (ITP 120)		Design I (ITD 110)	Internship (ITN 290)
Other			Business Management (6135)*	Accounting (6320/6321)	Orientation (SDV 101)			Prin. of Accounting I and Lab. (ACC 211-213)	

Prerequisite course AST 117 may be waived based on educational experience

* Articulated 9 Credits ** Dual Enrollment 15 Credits

Central Virginia Tech Prep Consortium

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Information Systems Technology: Specialization in Web Technologies (AAS)

Subjects	SECONDARY (High School)				POSTSECONDARY (Piedmont Virginia Community College)				
	Freshman	Sophomore	Junior	Senior	Freshman A	Freshman B	Summer	Sophomore A	Sophomore B
Math	Algebra I (3130)	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Technical Math (MTH 115)	Business Statistics I (BUS 220) or (MTH 240)			
	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Pre-Calculus I (MTH 163)** Applied Calculus I (MTH 271)**					
English	English 9 (1130)	English 10 (1140)	English 11 (1150)	English 12 (1160)	College Comp. I (ENG 111)**	College Comp. II (ENG 112)** or Technical Writing (ENG 115)			
				College Comp. I & II (ENG 111-112)**					
Science	Earth Science (4210)	Biology (4310)	Chemistry (4410)						
Social Studies/ Humanities	World Geography (2210) or World History (2340)		VA/US History (2360)	VA/US Gov. (2440)				Fundamentals of Design I (ART 131) or Humanities Elective	Macroeconomics (ECO 201) or Microeconomics (ECO 202)
			US History I-II or US Government I-II (HIS 121-122)** (PLS 211-212)**						Social Science Elective**
Health/PE	P.E. (7305)	P.E. (7405)			Health/PE Elective (HLT/PED)				Health / PE Elective (HLT/PED)
Career and Technical Education			Computer Information Systems (6612/6613)*	Desktop/Multimedia Presentations/ (6630)	Introduction to Computing (CSC 110)	Advanced Computer Applications (ITE 215)		IT/ART Elective Web Page Design I (ITD 110)	Internship (IT 290) Web Page Design II (ITD 210)

	Keyboarding (6151) or Keyboarding Apps. (6152)*	Electronic Commerce (8125)	Programming (6640) Advanced Programming (6641)	Computer Network Software Operations (6650)*	Beginning Windows (ITE 127) Orientation (SDV 101)	Java Programming I (ITP 120)		Designing Web Page Graphics (Photoshop) (ITD 112)	Introduction to Network Concepts (ITN 101)*
Other		Advanced Marketing (8130)*	Business Management (6135)*	Accounting (6320/6321)	Introduction to Business (BUS 100)	Prin. of Marketing (MKT 100)*		Principles of Accounting I and Lab. (ACC 211-213)	

Prerequisite course AST 117 may be waived based on educational experience.

* Articulated 10 Credits **Dual Enrollment 12 Credits

Central Virginia Tech Prep Consortium

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Information Systems Technology: Web Technologies (CSC)

Subjects	SECONDARY (High School)				POSTSECONDARY (Piedmont Virginia Community College)				
	Freshman	Sophomore	Junior	Senior	Freshman A	Freshman B	Summer	Sophomore A	Sophomore B
Math	Algebra I (3130)	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)					
English	English 9 (1130)	English 10 (1140)	English 11 (1150)	English 12 (1160)					
Science	Earth Science (4210)	Biology (4310)	Chemistry (4410)						
Social Studies/ Humanities	World Geography (2210) or World History (2340)		VA/US History (2360)	VA/US Gov. (2440)	Fundamentals of Design I (ART 131)				
Health/PE	P.E. (7305)	P.E. (7405)							
Career and Technical Education		Computer Info Systems (6612)*	Adv. Computer Info. Systems (6613)*	Desktop/Multimedia Presentations (6630)	Designing Web Page Graphics (ITD 112)	Data Base Management (ITE 150)			

	Keyboarding (6151) or Keyboarding Apps. (6152)*	Electronic Commerce (8125)	Computer Systems Technology I (8622)* Programming (6640)	Computer Systems Technology II (8623)* Advanced Programming (6641)	Web Page Design I (ITD 110)	Web Page Design II (ITD 210) Technical Elective			
Other		Advanced Marketing (8130)*	Business Management (6135)*	Accounting (6620/6321)	Introduction to Business (BUS 100)*	Prin. of Marketing (MKT 100)*			

It is recommended that students maintain a career portfolio and obtain field experience (i.e. observation, shadowing, internship, mentorship, etc.) as a high school Junior and/or Senior.

Prerequisite course AST 117 may be waived based on educational experience

* Articulated 6 Credits ** Dual Enrollment

Central Virginia Tech Prep Consortium

Contact the consortium director or your school guidance counselor for more information

Information Systems Technology: Specialization in Networking (AAS)

Subjects	SECONDARY (High School)				POSTSECONDARY (Piedmont Virginia Community College)				
	Freshman	Sophomore	Junior	Senior	Freshman A	Freshman B	Summer	Sophomore A	Sophomore B
Math	Algebra I (3130)	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Technical Math (MTH 115)	Business Statistics I (BUS 220) or (MTH 240)			
	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)	Pre-Calculus I (MTH 163)** Applied Calculus I (MTH 271)**					
English	English 9 (1130)	English 10 (1140)	English 11 (1150)	English 12 (1160)	College Comp. I (ENG 111)**	College Comp. II (ENG 112)** or Technical Writing (ENG 115)			
				College Comp. I & II (ENG 111-112)**					
Science	Earth Science (4210)	Biology (4310)	Chemistry (4410)						
Social Studies/ Humanities	World Geography (2210) or World History (2340)		VA/US History (2360)	VA/US Gov. (2440)				Humanities Elective	Macroeconomics (ECO 201) or Microeconomics (ECO 202)
			US History I-II or US Government I-II (HIS 121-122)** (PLS 211-212)**	Social Science Elective**					

Health/PE	P.E. (7305)	P.E. (7405)			Health/PE Elective (HLT/PED)				Health / PE Elective (HLT/PED)
Career and Technical Education			Computer Information Systems (6612/6613)*	Computer Network Software Operations (6650)*	Introduction to Business (BUS 100)*	Advanced Computer Applications (ITE 215)		IT/ETR Elective	IT Elective
	Keyboarding (6151) or Keyboarding Apps. (6152)*	Business Management (6135)*	Programming (6640) Desktop/Multimedia Presentations (6630)	Advance Programming (6641) Computer Systems Technology I (8622)* and II (8623)*	Beginning Windows (ITE 127) Introduction to Computing (CSC110)	Introduction to Network Concepts (ITN 101)* Java Programming I (ITP 120)		Upgrading and Maintaining PC (ETR 164)* Web Page Design I (ITD 110)	IT Elective* Internship (ITN 290)
Other		Advanced Marketing (8130)*	Accounting (6320)	Adv. Accounting (6321)	Orientation (SDV 101)			Principles of Accounting I and Lab (ACC 211-213)	

Prerequisite course AST 117 may be waived based on educational experience

*Articulated 9 Credits ** Dual Enrollment 12 Credits

Central Virginia Tech Prep Consortium

Contact the consortium director or your school guidance counselor for more information

Information Systems Technology: Networking (CSC)

Subjects	SECONDARY (High School)				POSTSECONDARY (Piedmont Virginia Community College)				
	Freshman	Sophomore	Junior	Senior	Freshman A	Freshman B	Summer	Sophomore A	Sophomore B
Math	Algebra I (3130)	Geometry (3143)	Algebra II (3135)	Adv. Algebra/Trig. (3137)					
English	English 9 (1130)	English 10 (1140)	English 11 (1150)	English 12 (1160)					
Science	Earth Science (4210)	Biology (4310)	Chemistry (4410)						
Social Studies/Humanities	World Geography (2210) or World History (2340)		VA/US History (2360)	VA/US Gov. (2440)					
Health/PE	P.E. (7305)	P.E. (7405)							

Career and Technical Education			Computer Information Systems (6612/6613)*	Computer Systems Technology I (8622)* and II (8623)*	Introduction to Computing (CSC 110)	Introduction To Network Concepts (ITN 101)*			
	Keyboarding (6151) or Keyboarding Applications (6152)*	Electronic Commerce (8125)	Programming (6640)	Advance Programming (6641)	Upgrading and PC Maintenance (ETR (164)*	IT/ETR Elective			
Other		Advanced Marketing (8130)	Business Management (6135)*	Computer Network Software Operations (6650)*	Beginning Windows (ITE 127)	IT/ETR Elective			
					Networking Elective (ITN)	Networking Elective (ITN)			

It is recommended that students maintain a career portfolio and obtain field experience (i.e. observation, shadowing, internship, mentorship, etc.) as a high school Junior and/or Senior
AST 117, ITE 127, ITE 115, and ITN 101 may be waived based on educational experience.

* Articulated 6 Credits ** Dual Enrollment