

## Computer Science, AS

### School of Technology

Students interested in pursuing a career in the computer field and planning to complete a bachelor's degree at a four-year school will consider the Computer Science AS degree. It is a mathematics-oriented degree and is designed to meet General Education requirements at local four-year institutions.

The Computer Science AS is designed primarily for those students who plan to transfer to a Pennsylvania Transfer and Articulation Oversight Committee (TAOC) four-year institution and are interested in majoring in Computer Science.

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Translate scientific, engineering, and other technical problems into formulations, which can be processed by the computer.
- Apply knowledge of advanced mathematics to prepare logic diagrams and encode resulting equations for processing.
- Demonstrate academic knowledge required of all graduates including competency in: critical thinking, writing, information literacy, oral communication and quantitative reasoning.

Sugg. Term	Seq #	Course ID	Course Title	Cr.	Term Offered	Prereq(s)	Options Available
1st Fall	1	PDV 101	First Year Seminar	1	F, Sp, Su		
	2	ENG 161	College Writing	3	F, Sp, Su	ENG 085 or Placement	
	3	CPT 150	Microcomputer Concepts	3	F, Sp, Su		
	4	Restricted Elective	Restricted Elective	3	F, Sp, Su		See List
	5	CPT 160	Intro to Programming	3	F, Sp, Su		
	6	MTH 158	Precalculus Mathematics	3	F, Sp, Su	MTH 157 or Placement	
1st Spring	7	ENG 164	Advanced Composition	3	F, Sp, Su	ENG 161	
	8	MTH 172	Analytical Geometry and Calculus I	3	F, Sp, Su	MTH 109, 158 or Placement	
	9	PHL 155	Introduction to Logic	3	F, Sp, Su		
	10	CPT 145	Introduction to Computer Technology	3	F, Sp, Su		
	11	ART 155 or MUS 155	Introduction to Art History OR Music Listening: A Survey	3	F, Sp, Su		
2nd Fall	12	MTH 160	Introduction to Statistics	3	F, Sp, Su		
	13	CHM 155 or PHY 155	General Chemistry I OR College Physics I	4	F, Sp, Su	CHM 107 or HS Chemistry & MTH 052 or 52A, or Placement or PHY 110 or HS Physics & MTH 108 or 100, or Placement	
	14	CPT 163	Java Programming I	3	F, Sp, Su	CPT 160	
	15	SOC 155	Principles of Sociology	3	F, Sp, Su		HIS 156
	16	SPC 155	Effective Speech	3	F, Sp, Su		
2nd Spring	17	MTH 277	Discrete Mathematics	3	F, Sp, Su	MTH 172	
	18	CHM 156 or PHY 156	General Chemistry II OR College Physics II	4	F, Sp, Su	CHM 155 OR PHY 155	
	19	PSY 160	General Psychology	3	F, Sp, Su		HIS 156
	20	CPT 213	Java Programming II	3	F, Sp, Su		
	21	CPT 182	Operating Systems	3	F, Sp, Su		

**Total Program Credits**

**63**

**Restricted Electives:** ART 155, ART 162, ENG 255, MUS 155, PHL 160, PHL 161, SPA 155