

Computer Science, AS

School of Technology

Program Description

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.

Sugg. Term	Seq #	Course ID	Course Title	Cr.	Prereq/Coreq(Co)	Options Available
1st Fall	1	PDV 101	First Year Seminar	1		
	2	ENG 161	College Writing	3	ENG 085 or Placement	
	3	CPT 150	Microcomputer Concepts	3		
	4	Restricted Elective	Restricted Elective	3		See List
	5	CPT 160	Introduction to Programming	3		
	6	MTH 167	College Trigonometry	3-4	MTH 157 or Placement	MTH 170
1st Spring	7	ENG 164	Advanced Composition	3	ENG 161	
	8	MTH 172	Analytical Geometry and Calculus I	4	"C" Grade or Better in MTH 109, MTH 167 or MTH 170 or Placement	
	9	PHL 202	Logic	3	ENG 161	
	10	CPT 145	Introduction to Computer Technology	3		
	11	ART 155 or MUS 155	Introduction to Art History or Music Listening: A Survey	3		
2nd Fall	12	MTH 160	Introduction to Statistics	3	MTH 052	
	13	CHM 150/151 or PHY 155	General Chemistry I Lecture and Lab or College Physics I	4	High school chemistry (C or better) or CHM 107, MTH 052 or placement or PHY 110 or HS Physics & MTH 108, MTH 100, or Placement	
	14	CPT 163	Java Programming I	3	CPT 160	
	15	SOC 155	Principles of Sociology	3		HIS 156
	16	SPC 155	Effective Speech	3		
	17	MTH 277	Discrete Mathematics	3	MTH 172	
2nd Spring	18	CHM 160 or PHY 156	General Chemistry II Lecture and Lab or College Physics II	4	CHM 150/151 or PHY 155	
	19	PSY 160	General Psychology	3		HIS 156
	20	CPT 213	Java Programming II	3	CPT 163	
	21	CPT 182	Operating Systems	3		

Minimum Program Credits

64-65

CPS

Restricted Electives: ART 155, ART 162, ENG 255, MUS 155, PHL 101, PHL 103, SPA 155