

Computer Technology Associate in Applied Science

The Associate in Applied Science Computer Technology degree program prepares students for entry-level computer technology positions. Emphasis throughout the program's duration is placed on effective computer and communication skills.

The **Data Science Concentration** of the Associate in Applied Science in Computer Technology prepares learners to design and develop desktop and web application with an emphasis on business logic and data-driven applications. Students will be able to support the needs of businesses in a wide variety of industries, including healthcare, manufacturing, insurance, finance, and software publishing.

Listed below is the ideal grouping of courses in order by semester. This plan assumes a full-time schedule. Note, however, that many variables can affect this plan, and not every course is offered every semester. Please see your advisor to map out your own personalized progression toward graduation.

Note: Please contact your advisor for recommended evening schedules.

Data Science Concentration Recommended Program Schedule

Preferred Sequence		
FIRST SEMESTER		HOURS
COL 111	E-Learning Success	1
COL 105	Freshman Seminar	3
CPT 113	Information Systems	3
ENG 101	English Composition I	3
Select one of the following:		3
MAT 103	Quantitative Reasoning	
MAT 109	College Algebra With Modeling ⁴	
MAT 120	Probability and Statistics	
Total Semester Hours		13
SECOND SEMESTER		
CPT 257	Operating Systems	3
CPT 127	Python Programming I	3
CPT 170	Computer Applications I	3
IST 272	Relational Database	3
Total Semester Hours		12
THIRD SEMESTER		
IST 226	Internet Programming	3
IST 278	Database Programming	3
CPT 209	Computer Systems Management	3
Total Semester Hours		9

FOURTH SEMESTER		
CPT 227	Python Programming II	3
CPT 189	Data Science I	3
Programming Elective ¹		3
Select one of the following:		3
SPC 205	Public Speaking	
SPC 208	Intercultural Communication	
SPC 209	Interpersonal Communication	
Total Semester Hours		12
FIFTH SEMESTER		
BUS 190	Business Analytics I	3
CPT 289	Data Science II	3
CPT 273	Data Visualization	3
CPT 267	Technical Support Concepts	3
Total Semester Hours		12
SIXTH SEMESTER		
CPT 264	Systems & Procedures	3
Social Science Elective ²		3
Humanities Elective ³		3
Total Semester Hours		9
Total Required Credit Hours		67

¹ Programming Electives:

- **IST 239** Javascript
- **CPT 236** Java Programming I

² Preferred Social Science:

- **ECO 211** Microeconomics

³ Preferred Humanities Elective:

- **PHI 105** Introduction to Logic

⁴ Preferred Mathematics:

- **MAT 109** College Algebra With Modeling