

# Information Technology Systems - AAS (Plan 2)



**2023-24**

## Program map for Information Technology Systems Associate in Applied Science (AAS), Plan 2

Qualify for entry-level employment as a computer support specialist, utilizing skills in networking, programming, and applications support by successfully completing program requirements and select areas of emphasis.

**See also:** ( [lowercolumbia.edu/programs/info-tech](https://lowercolumbia.edu/programs/info-tech) )

- [Degree Requirements for Information Technology programs \( lowercolumbia.edu/programs/info-tech \)](https://lowercolumbia.edu/programs/info-tech)
- [Course descriptions in LCC Catalog \( lowercolumbia.edu/publications/catalog/courses \)](https://lowercolumbia.edu/publications/catalog/courses)
- [Distribution lists in LCC Catalog \( lowercolumbia.edu/publications/catalog/distribution-lists \)](https://lowercolumbia.edu/publications/catalog/distribution-lists)

*Please note that many course sequences only begin in fall quarter. Please check with your program advisor for more information.*

*Please review both the "By Quarter Overview" and "Detailed Class Sequence" tabs below.*

## By Quarter Overview

### First Quarter

Laptop requirements for IT students:

- Processor: minimum: Intel Core i3 (10th gen or better); recommended: Intel Core i5 (10th gen or better) OR minimum: AMD Ryzen 3 (5000 series); recommended: AMD Ryzen 5 or better. Note for Intel CPU's: Pentium and Celeron processors not recommended.
- RAM: minimum: 8 GB DDR4 RAM; recommended: 16 GB DDR4 RAM.
- Operating System: Windows 10 or 11 Home; recommended: Windows 10 or 11 Pro. Note: MacOS, MacBooks, ChromeOS and Chromebooks will not work for the IT program.
- Hard drive: minimum: 256 GB SSD; recommended: 500 GB NVME or larger.
- WiFi: minimum: 802.11n; recommended: 802.11ac or ax.

- 
- MATH 087/097: Essentials of Pre-College Math II/III (5 credits)
    - *MATH 079 or TECH 079. placement exam or instructor permission\**

- IT 100: IT Fundamentals (5 credits)
- BUS 100: Foundations of Business Success (3 credits)
- COLL 101: College Success 101 (2 credits)

*\*Pre- and/or co-requisite(s)*

## Second Quarter

---

- MATH& 107: Math in Society (5 credits)
  - *MATH 098/99 or MATH 087/097 with a C or better\**
- IT 141: PC Technician I (4 credits)
  - *IT 100 with a C or better or instructor permission\**
- IT 102: Introduction to Internet Theory, Application, and Web Page Design (5 credits)

*\*Pre- and/or co-requisite(s)*

## Third Quarter

---

- CS 170: Fundamentals of Computer Programming (5 credits)
  - *MATH 088 or MATH 097 with a C or better and knowledge of Windows is required; or instructor permission\**
- ENGL& 101: English Composition I (5 credits)
  - *ENGL 099 or TECH 105 with a C or better\**
- IT 142: PC Technician II (4 credits)
  - *IT 141 with a C or better\**

*\*Pre- and/or co-requisite(s)*

## Fourth Quarter

---

- IT 140: Configuring Windows Operating Systems (4 credits)
  - *IT 100 with a C or better\**
- BTEC 131: Introduction to Spreadsheets (5 credits)
- BUS 144: Management of Human Relations (5 credits)

*\*Pre- and/or co-requisite(s)*

## Fifth Quarter

---

- BUS 150: Customer Service/Management (5 credits)
- Choose one elective - consult adviser (5 credits)
- CS 275: Object-Oriented Programming (5 credits)
  - *CS 170 with a C or better\**

*\*Pre- and/or co-requisite(s)*

## Sixth Quarter

---

- Choose one elective - consult adviser (5 credits)

- BTEC 135: Advanced Data Analysis (5 credits)
  - BTEC 131 with a C or better\*
- ENGL& 235: Technical Writing (5 credits)
  - *ENGL& 101 with a C or better\**

*\*Pre- and/or co-requisite(s)*

## Seventh Quarter

---

- IT 211: Introduction to Networking (5 credits)
  - *IT 140 with a C or better\**
- IT 249: Linux Operating Systems (5 credits)
  - *IT 140 and IT 211 each with a C or better\**
- IT 230: Database Development (5 credits)
  - *BTEC 135 with a C or better\**

## Eighth Quarter

---

- IT 212: Installing and Configuring Windows Server (5 credits)
  - *IT 211 with a C or better\**
- IT 288: Cooperative Work Experience (1-15 credit)
- IT 294: Career Success (2 credits)

*\*Pre- and/or co-requisite(s)*

## Ninth Quarter

---

- IT 220: Intro to cloud computing (3 credits)
  - *IT 140 or IT 211 with a C or better\**
- IT 235: Introduction to Big Data (5 credits)
  - *IT 230 with a C or better\**
- IT 260: Info Tech Security (5 credits)
  - *IT 211 with a C or better\**

*\*Pre- and/or co-requisite(s)*

## Detailed Class Sequence

### 1. Essentials Pre-College Math II/III

---

MATH 087/097 (5 credits)

*Pre- and/or co-requisite(s): MATH 079 or TECH 079, placement exam or instructor permission*

### 2. IT Fundamentals

---

IT 100 (5 credits)

---

### 3. Foundations of Business Success

---

BUS 100 (3 credits)

---

### 4. College Success 101

---

COLL 101 (5 credits)

---

### 5. Math in Society

---

MATH& 107 (5 credits)

*Pre- and/or co-requisite(s): MATH 098/99 or MATH 087/097 with a C or better*

---

### 6. PC Technician I

---

IT 141 (4 credits)

*Pre- and/or co-requisite(s): IT 100 with a C or better*

---

### 7. Introduction to Internet Theory, Application, and Web Page Design

---

IT 102 (5 credits)

---

### 8. Fundamentals of Computer Programming

---

CS 170 (5 credits)

*Pre- and/or co-requisite(s): MATH 088 or MATH 097 with a C or better and knowledge of Windows is required; or instructor permission*

---

### 9. English Composition I

---

ENGL& 101 (5 credits)

*Pre- and co-requisite(s): ENGL 099 or TECH 105 with a C or better*

---

### 10. PC Technician II

---

IT 142 (4 credits)

*Pre- and/or co-requisite(s): IT 141 with a C or better*

---

### 11. Configuring Windows Operating Systems

---

IT 140 (4 credits)

*Pre- and/or co-requisite(s): IT 100 with a C or better*

---

## 12. Introduction to Spreadsheets

---

BTEC 131 (5 credits)

---

## 13. Management of Human Relations

---

BUS 144 (5 credits)

---

## 14. Customer Service/Management

---

BUS 150 (5 credits)

---

## 15. Elective

---

Choose one elective - consult with adviser (5 credits)

---

## 16. Object-Oriented Programming

---

CS 275 (5 credits)

*Pre- and/or co-requisite(s): CS 170 with a C or better*

---

## 17. Elective

---

Choose one elective - consult with adviser (5 credits)

---

## 18. Advanced Data Analysis

---

BTEC 135 (5 credits)

*Pre- and/or co-requisite(s): BTEC 131 with a C or better*

---

## 19. Technical Writing

---

ENGL& 235 (5 credits)

*Pre- and/or co-requisite(s): ENGL& 101 with a C or better*

---

## 20. Introduction to Networking

---

IT 211 (5 credits)

*Pre- and/or co-requisite(s): IT 140 with a C or better*

---

## 21. Linux Operating Systems

---

IT 249 (5 credits)

*Pre- and/or co-requisite(s): IT 140 and IT 211 each with a C or better*

---

## **22. Database Development**

---

IT 230 (5 credits)

*Pre- and/or co-requisite(s): BTEC 135 with a C or better*

---

## **23. Installing and Configuring Windows Server**

---

IT 212 (5 credits)

*Pre- and/or co-requisite(s): IT 211 with a C or better*

---

## **24. Cooperative Work Experience**

---

IT 288 (1-15 credit)

---

## **25. Career Success**

---

IT 294 (2 credits)

---

## **26. Intro to Cloud Computing**

---

IT 220 (3 credits)

*Pre- and/or co-requisite(s): IT 140 or IT 211 with a C or better*

---

## **27. Introduction to Big Data**

---

IT 235 (5 credits)

*Pre- and/or co-requisite(s): IT 230 with a C or better*

---

## **28. Info Tech Security**

---

IT 260 (5 credits)

*Pre- and/or co-requisite(s): IT 211 with a C or better*



## **Program Maps for Information Technology ( [lowercolumbia.edu/program-maps/info-tech](http://lowercolumbia.edu/program-maps/info-tech) )**

- **Information Technology Systems - AAS (Plan 1) ( [lowercolumbia.edu/program-maps/info-tech/AAS-Information-Technology-Systems-Plan-1](http://lowercolumbia.edu/program-maps/info-tech/AAS-Information-Technology-Systems-Plan-1) )**
- **Information Technology Systems - AAS (Plan 2) ( [lowercolumbia.edu/program-maps/info-tech/AAS-Information-Technology-Systems-Plan-2](http://lowercolumbia.edu/program-maps/info-tech/AAS-Information-Technology-Systems-Plan-2) )**
- **Information Technology Systems - AAS-T (BAS-OLTM Option) ( [lowercolumbia.edu/program-maps/info-tech/AAS-Information-Technology-Systems-to-BAS-OLTM](http://lowercolumbia.edu/program-maps/info-tech/AAS-Information-Technology-Systems-to-BAS-OLTM) )**