

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



2025-26

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.

[View this program in the LCC Catalog \(lowercolumbia.edu/publications/catalog/programs/Info-Tech-AAS-Information-Technology-Systems\)](https://lowercolumbia.edu/publications/catalog/programs/Info-Tech-AAS-Information-Technology-Systems)

## See also

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

**Important:** Many course sequences only begin in fall quarter. Check with your program advisor.

## By Quarter Overview

### First Quarter

Laptop requirements for IT students:

- Processor: Recommended - Intel Core i5 (12th gen or better) or higher; OR AMD Ryzen 5 or higher.
- Note for Intel CPU's: Pentium and Celeron processors not recommended. At this point, Qualcomm's ARM based processors are also not recommended due to potential compatibility issues with some programs.
- RAM: Recommended 16 GB DDR4 or DDR5 RAM.

- Operating System: Windows 11 Home; recommended: Windows 11 Pro. Note: MacOS, MacBooks, ChromeOS and Chromebooks will not work for the IT program. CoPilot PC's might work, but there might be compatibility issues.
- Hard drive: minimum: 512 GB SSD; recommended: 1 TB GB NVME or larger.
- WiFi: minimum: 802.11ac (WiFi 5); recommended: 802.11 or ax (Wifi 6 or higher).

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- 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

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- 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

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- 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

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- IT 140: Configuring Windows Operating Systems (4 credits)
  - BTEC 131: Introduction to Spreadsheets (5 credits)
  - BUS 144: Management of Human Relations OR SOC& 101 Sociology (5 credits)

## Fifth Quarter

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- BUS 150: Customer Service/Management (5 credits)
  - Choose one elective - consult advisor (5 credits)

- CS 275: Object-Oriented Programming (5 credits)
  - CS 170 with a C or better\*

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

## Sixth Quarter

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- Choose one elective - consult advisor (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

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- IT 211: Introduction to Networking (5 credits)
- IT 230: Database Development (5 credits)

## Eighth Quarter

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- IT 212: Installing and Configuring Windows Server (5 credits)
- IT 288: Cooperative Work Experience (1-15 credit)
- IT 294: Career Success (2 credits)
- IT 249: Linux Operating Systems (5 credits)

## Ninth Quarter

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- 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

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MATH 087/097 (5 credits)

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

### 2. IT Fundamentals

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IT 100 (5 credits)

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### **3. Foundations of Business Success**

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BUS 100 (3 credits)

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### **4. College Success 101**

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COLL 101 (5 credits)

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### **5. Math in Society**

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MATH& 107 (5 credits)

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

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### **6. PC Technician I**

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IT 141 (4 credits)

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

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

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IT 102 (5 credits)

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### **8. Fundamentals of Computer Programming**

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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*

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### **9. English Composition I**

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ENGL& 101 (5 credits)

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

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### **10. PC Technician II**

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IT 142 (4 credits)

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

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### **11. Configuring Windows Operating Systems**

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IT 140 (4 credits)

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

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## **12. Introduction to Spreadsheets**

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BTEC 131 (5 credits)

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## **13. Management of Human Relations**

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BUS 144 (5 credits)

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## **14. Customer Service/Management**

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BUS 150 (5 credits)

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## **15. Elective**

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Choose one elective - consult with advisor (5 credits)

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## **16. Object-Oriented Programming**

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CS 275 (5 credits)

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

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## **17. Elective**

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Choose one elective - consult with advisor (5 credits)

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## **18. Advanced Data Analysis**

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BTEC 135 (5 credits)

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

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## **19. Technical Writing**

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ENGL& 235 (5 credits)

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

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## **20. Introduction to Networking**

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IT 211 (5 credits)

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

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## **21. Linux Operating Systems**

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IT 249 (5 credits)

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

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## **22. Database Development**

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IT 230 (5 credits)

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

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

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IT 212 (5 credits)

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

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## **24. Cooperative Work Experience**

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IT 288 (1-15 credit)

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## **25. Career Success**

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IT 294 (2 credits)

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

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IT 220 (3 credits)

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

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

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IT 235 (5 credits)

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

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## **28. Info Tech Security**

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IT 260 (5 credits)

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