

# Program map for Information Technology Systems Associate in Applied Science (AAS) (BAS-OLTM Option)



2024-25

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. This option prepares students for transfer to LCC's Bachelor of Science in Organizational Leadership and Technical Management (BAS-OLTM) program.

[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& 107: Math in Society (5 credits)
    - *MATH 098/99 or MATH 087/097 with a C or better\**
  - 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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- BTEC 131: Introduction to Spreadsheets (5 credits)
    - *BTEC 104 or CS 110 and MATH 088 or MATH 097*
  - 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)
    - *IT 100 with a C or better\**

*\*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 grade of 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)
    - *IT 100\**
  - IT 211: Introduction to Networking (5 credits)
    - *IT 140 with a C or better\**
  - BTEC 135: Advanced Data Analysis (5 credits)
    - *BTEC 131 with a C or better\**

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

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## Fifth Quarter

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- IT 212: Installing and Configuring Windows Server (5 credits)
  - CS 275: Object-Oriented Programming (5 credits)
  - IT 249: Linux Operating Systems (5 credits)

## Sixth Quarter

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- IT 220: Intro to Cloud Computing (3 credits)
  - IT 235: Introduction to Big Data (5 credits)
  - IT 260: Info Tech Security (5 credits)

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

## Seventh Quarter

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- IT 230: Database Development (5 credits)

## Eighth Quarter

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- BUS 144: Management of Human Relations OR SOC& 101 (5 credits)
  - ENGL& 235: Technical Writing (5 credits)
  - IT 288: Cooperative Work Experience (1 - 15 credits)
  - IT 294: Career Success (2 credits)

## Detailed Class Sequence

### 1. 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*

### 2. IT Fundamentals

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IT 100 (5 credits)

### 3. Foundations of Business Success

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BUS 100 (3 credits)

### 4. College Success 101

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COLL 101 (2 credits)

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## 5. Introduction to Spreadsheets

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BTEC 131 (5 credits)

*Pre- and/or co-requisite(s): BTEC 104 or CS 110 and MATH 088 or MATH 097*

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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 or instructor permission\**

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

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IT 102 (5 credits)

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

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## 8. Fundamentals of Computer Programming

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CS 270 (5 credits)

*Pre- and/or co-requisite(s): MATH 088 or MATH 097 with a grade of 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/or 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*

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## 12. 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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## 13. 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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## 14. 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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## 15. Object-Oriented Programming

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CS 275 (5 credits)

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

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## 16. 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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## 17. Intro to Cloud Computing

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IT 220 (3 credits)

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## 18. Introduction to Big Data

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IT 235 (5 credits)

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## 19. Info Tech Security

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IT 260 (5 credits)

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## 20. Database Development

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IT 230 (5 credits)

*Pre- and/or co-requisite(s): BTEC 235 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 240 and IT 211 each with a C or better*

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## 22. Management of Human Relations

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BUS 144 (5 credits)

## **24. Customer Service/Management**

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BUS 150 (5 credits)

## **25. Cooperative Work Experience**

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IT 288 (1 - 15 credits)

## **26. Career Success**

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IT 294 (2 credits)