

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

2024-25



[Return to Information Technology Program Maps \(lowercolumbia.edu/program-maps/info-tech\)](https://lowercolumbia.edu/program-maps/info-tech)

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: 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 11 Home; recommended: Windows 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