Program map for Information Technology Systems Associate in Applied Science (AAS) (Plan 1)

2024-25

[Return to Information Technology Program Maps (lowercolumbia.edu/program-maps/info-tech)](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)](lowercolumbia.edu/publications/catalog/programs/Info-Tech-AAS-Information-Technology-Systems)

See also

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

- BTEC 131: Introduction to Spreadsheets (5 credits)
  - *BTEC 104 or CS 110 and MATH 088 or MATH 097 or instructor permission**
- 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 or instructor permission**

Pre- and/or co-requisite(s)

Third Quarter

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

Pre- and/or co-requisite(s)

Fifth Quarter

- BUS 150: Customer Service/Management (5 credits)
- IT 212: Installing and Configuring Windows Server (5 credits)
  - *IT 211 with a C or better**
- CS 275: Object-Oriented Programming (5 credits)
  - *CS 170 with a grade of C or better; or instructor permission**

Pre- and/or co-requisite(s)

Sixth Quarter

- IT 260: Info Tech Security (5 credits)
  - IT 211 with a grade of C or better or instructor permission*
- IT 220: Intro to Cloud Computing (3 credits)
  - IT 140 or IT 211 with a grade of C or better or instructor permission*
- IT 235: Introduction to Big Data (5 credits)
  - IT 230 with a grade of C or better or instructor permission*

Pre- and/or co-requisite(s)

Seventh Quarter

- Choose one or more electives (5 credits)
- 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**

Pre- and/or co-requisite(s)

Eighth Quarter

- BUS 144: Management of Human Relations (5 credits)
- ENGL& 235: Technical Writing (5 credits)
  - *ENGL& 101 with a C or better**
- IT 288: Cooperative Work Experience (1 - 15 credits)

Pre- and/or co-requisite(s)

Detailed Class Sequence

1. 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

2. IT Fundamentals

IT 100 (5 credits)

3. Foundations of Business Success

BUS 100 (3 credits)

4. College Success 101

COLL 101 (2 credits)

5. Introduction to Spreadsheets

BTEC 131 (5 credits)
Pre- and/or co-requisite(s): BTEC 104 or CS 110 and MATH 088 or MATH 097 or instructor permission

6. PC Technician

IT 141 (4 credits)
Pre- and/or co-requisite(s): IT 100 with a C or better or instructor permission

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

IT 102 (5 credits)
Pre- and/or co-requisite(s): IT 100 with a C or better or instructor permission

8. Advanced Data Analysis

BTEC 135 (5 credits)
Pre- and/or co-requisite(s): BTEC 131 with a C or better

9. English Composition I

ENGL& 101 (5 credits)
Pre- and/or 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

12. Introduction to Networking

IT 211 (5 credits)

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

13. Fundamentals of Computer Programming

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

14. Customer Service/Management

BUS 150 (5 credits

15. Installing and Configuring Windows Server

IT 212 (5 credits)
Pre- and/or co-requisite(s): IT 211 with a C or better

16. Object-Oriented Programming

CS 275 (5 credits)
Pre- and/or co-requisite(s): CS 170 with a C or better; or instructor permission

17. Info Tech Security

IT 260 (5 credits)
Pre- and/or co-requisite(s): IT 211 with a grade of C or better or instructor permission

18. Intro to Cloud Computing

IT 220 (3 credits)
Pre- and/or co-requisite(s): IT 140 or IT 211 with a grade of C or better or instructor permission

19. Introduction to Big Data

IT 235 (5 credits)
Pre- and/or co-requisite(s): IT 230 with a grade of C or better or instructor permission

20. Elective/s

Choose one or more electives (5 credits)

21. Linux Operating Systems

IT 249 (5 credits)
Pre- and/or co-requisite(s): IT 240 and IT 211 each with a C or better

22. Database Development

IT 230 (5 credits)
Pre- and/or co-requisite(s): BTEC 235 with a C or better

23. Management of Human Relations

BUS 144 (5 credits)

24. Technical Writing

ENGL& 235 (5 credits)
Pre- and/or co-requisite(s): ENGL& 101 with a C or better

25. Cooperative Work Experience

IT 288 (1 - 15 credits)