Academic Plan - Associate of Applied Science Computer Information Systems - Computer Support

**Catalog Year: 2019/2020**

**Total Credits:61**

The Computer Information System (CIS) degree is a two-year Associate of Applied Science degree that prepares students with a solid set of skills and knowledge in the Computer Information System field. The degree allows students to further their knowledge by pursuing an area of emphasis towards industry certification, computer programming or transferring to a 4-year university. \*

Major courses are carefully selected in areas of Information Systems, Computer Networking, and Computer Programming to provide students with an exceptional foundation in the field.

Job opportunities exist in entry-level positions as a computer support professional or technician, systems analyst or computer programmer.

# General Education Courses

3 Credits, COM 115 - Public Speaking\* OR COM 125 - Interpersonal Communication, available fall spring summer

3 Credits, ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1\*, available fall spring summer

3 Credits, General Education Elective (See Notes for specific requirements), available fall spring summer

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4 Credits, MAT 121 - College Algebra: GT-MA1 or Higher\*, available fall spring summer

# Major Courses

3 Credits, CIS 118 - Intro to PC Applications, available fall spring summer

3 Credits, CIS 220 - Fundamentals of Unix, available fall spring summer

3 Credits, CIS 240 - Database Design and Development, available fall

3 Credits, CIS 243 - Introduction to Structured Query Language (SQL), available spring

3 Credits, CIS 267 - Management of Information Systems, available spring

3 Credits, CNG 124 - Networking I: Network +, available fall spring summer

3 Credits, CSC 119 - Introduction to Programming, available fall spring summer

4 Credits, CNG 121 - Computer Technician I: A+, available fall spring summer

# Concentration Courses

3 Credits, CIS 232 - Unix Shell Programming OR CIS 287 - Internship, available fall spring summer

3 Credits, CNG 132 - Network Security Fundamentals, available fall spring

4 Credits, CNG 120 - A+ Certification Preparation, available fall spring

4 Credits, CNG 122 - Computer Technician II: A+, available fall spring

# Pre-Requisites, Co-Requisites, and Recommendations

CIS 118 - Intro to PC Applications

Requirement: Students must have Windows file management skills to create file folders, rename files, delete

CNG 120 - A+ Certification Preparation

Pre-Requisite/Corequisite: CNG 122 - Computer Technician II: A+

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Pre-Requisite: CNG 121 - Computer Technician I: A+

CNG 132 - Network Security Fundamentals

Pre-Requisite: CNG 124 - Networking I: Network +

# Program Outcomes

Apply hardware principles.

Understand network security.

Apply PC applications.

# Notes

General Education Electives: Select four (4) courses from the following: BUS 115, ECO 201, ECO 202, ENG 122, HIS 121, PHI 111, POS 105, POS 111, PSY 101, SOC 101. IF TRANSFERRING TO MSU MUST CHOOSE FROM BUS 115, ECO 201, ECO 202, ENG 122, AND HIS 121.

Course availability is subject to change.

Refer to 19/20 catalog for specific requirements and important information about this degree.

Recommended courses may be listed above for certain electives; consult with the Academic Advising Office (advising@arapahoe.edu or 303.797.5664) for additional elective recommendations.

Students transferring to MSU-Denver must take MAT 121.

\*This course requires college level readiness as measured by Accuplacer, ACT, or SAT scores; approved high school course work that is less than five years old; or successful completion of appropriate college-readiness course.

AAA 101 – College 101: Student Experience is required for all new college students seeking degrees or transfer.

# Graduation Requirements

To graduate, students must apply for graduation (form available at www.arapahoe.edu/departments-and-programs/graduation) by the deadline and meet all degree requirements.

# RECOMMENDED COURSE SEQUENCE FULL-TIME TRACK

## Year 1: Fall

3 Credits, CIS 118 - Intro to PC Applications

4 Credits, CNG 121 - Computer Technician I: A+

3 Credits, ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1

4 Credits, MAT 121 - College Algebra: GT-MA1 or Higher

## Year 1: Spring

4 Credits, CNG 122 - Computer Technician II: A+

3 Credits, CNG 124 - Networking I: Network +

3 Credits, COM 115 - Public Speaking OR COM 125 - Interpersonal Communication

3 Credits, CSC 119 - Introduction to Programming

3 Credits, General Education Elective

Year 2: Fall

3 Credits, CIS 220 - Fundamentals of Unix

3 Credits, CIS 240 - Database Design and Development

4 Credits, CNG 120 - A+ Certification Preparation

3 Credits, General Education Elective

3 Credits, General Education Elective

## Year 2: Spring

3 Credits, CIS 243 - Introduction to Structured Query Language (SQL)

3 Credits, CIS 267 - Management of Information Systems

3 Credits, CIS Concentration Choice

3 Credits, CNG 132 - Network Security Fundamentals

3 Credits, General Education Elective

# RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

## Year 1: Fall

3 Credits, CIS 118 - Intro to PC Applications

3 Credits, ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1

4 Credits, MAT 121 - College Algebra: GT-MA1 or Higher

## Year 1: Spring

4 Credits, CNG 121 - Computer Technician I: A+

3 Credits, COM 115 - Public Speaking OR COM 125 - Interpersonal Communication

3 Credits, CSC 119 - Introduction to Programming

## Year 1: Summer

3 Credits, General Education Elective

3 Credits, General Education Elective

## Year 2: Fall

3 Credits, CIS 220 - Fundamentals of Unix

3 Credits, CIS 240 - Database Design and Development

4 Credits, CNG 122 - Computer Technician II: A+

## Year 2: Spring

3 Credits, CIS 243 - Introduction to Structured Query Language (SQL)

3 Credits, CIS 267 - Management of Information Systems

3 Credits, CNG 124 - Networking I: Network +

## Year 2: Summer

3 Credits, General Education Elective

3 Credits, General Education Elective

## Year 3: Fall

3 Credits, CIS Concentration Choice

4 Credits, CNG 120 - A+ Certification Preparation

3 Credits, CNG 132 - Network Security Fundamentals