Academic Plan: Associate of Applied Science – Computer Information Systems – Business

# Catalog Year: 2020/2021

# Total Credits: 60

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

* COM 115 - Public Speaking\* OR COM 125 - Interpersonal Communication (3 Credits; Available all semesters)
* ECO 201 - Principles of Macroeconomics: GT-SS1\* (3 Credits; Available all semesters)
* ECO 202 - Principles of Microeconomics: GT-SS1\* (3 Credits; Available all semesters)
* ENG 121 - English Composition I: GT-CO1\* (3 Credits; Available all semesters)
* ENG 122 - English Composition II: GT-CO2 (3 Credits; Available all semesters)
* HIS 208 - American Indian History: GT-HI1\* (3 Credits; Available Spring semesters)
* MAT 121 - College Algebra: GT-MA1 or Higher\* (4 Credits; Available all semesters)

# Major Courses

* BUS 115 - Introduction to Business (3 Credits; Available all semesters)
* CIS 118 - Intro to PC Applications (3 Credits; Available all semesters)
* CIS 220 - Fundamentals of Unix (3 Credits; Available Fall and Spring semesters)
* CIS 240 - Database Design and Development (3 Credits; Available Fall and Spring semesters)
* CIS 243 - Introduction to Structured Query Language (SQL) (3 Credits; Available Fall and Spring semesters)
* CIS 267 - Management of Information Systems (3 Credits; Available Spring semesters)
* CSC 119 - Introduction to Programming (3 Credits; Available all semesters)
* MAT 125 - Survey of Calculus: GT-MA1 (4 Credits; Available all semesters)

# Concentration Courses

* ACC 121 - Accounting Principles I (4 Credits; Available all semesters)
* BUS 216 - Legal Environment of Business (3 Credits; Available all semesters)
* BUS 217 - Business Communication & Report Writing (3 Credits; Available all semesters)
* MAR 216 - Principles of Marketing (3 Credits; Available all semesters)

# Pre-Requisites, Co-Requisites, and Recommendations (grade C or better required)

Where requirements are listed as course categories (e.g. Electives, Arts/Humanities) rather than as specific courses, please note that depending upon course choice, pre-requisites may be required.

* CIS 118 - Intro to PC Applications
  + Requirement: Students must have Windows file management skills to create file folders, rename files, delete files, copy and move files
* ENG 121 - English Composition I: GT-CO1\*
  + Co-Requisite: CCR 094 - Studio 121
* ENG 122 - English Composition II: GT-CO2
  + Pre-Requisite: ENG 121 - English Composition I OR ENG 131 - Technical Writing I
* MAT 125 - Survey of Calculus: GT-MA1
  + Pre-Requisite: MAT 121 - College Algebra OR MAT 123 - Finite Mathematics\*

# Program Outcomes

* Apply PC applications.
* Understand networking concepts.
* Understand database concepts.

# Notes

* \*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.
* Course availability is subject to change.
* In order to meet program requirements, students registered for ENG 121 or ENG 131 must also register for CCR 094 unless they can demonstrate otherwise meeting the CCR 094 standard through assessment testing, prior college coursework, or recent High School coursework. See an Advisor for details.
* Refer to 20/21 catalog for specific requirements and important information about this degree.
* Students transferring to MSU must take MAT 121.

# Graduation Requirements

* To graduate, students must apply for graduation [here](http://www.arapahoe.edu/departments-and-programs/graduation) by the deadline and meet all degree requirements.

# RECOMMENDED COURSE SEQUENCE FULL-TIME TRACK

## Year 1: Fall

* CIS 118 - Intro to PC Applications (3 Credits)
* CSC 119 - Introduction to Programming (3 Credits)
* ECO 201 - Principles of Macroeconomics: GT-SS1 (3 Credits)
* ENG 121 - English Composition I: GT-CO1 (3 Credits)
* MAT 121 - College Algebra: GT-MA1 or Higher (4 Credits)

## Year 1: Spring

* ACC 121 - Accounting Principles I (4 Credits)
* BUS 115 - Introduction to Business (3 Credits)
* COM 115 - Public Speaking OR COM 125 - Interpersonal Communication (3 Credits)
  + ~Recommended Communication Course(s)~
    - COM 115 - Public Speaking\*
* MAT 125 - Survey of Calculus: GT-MA1 (4 Credits)

## Year 2: Fall

* BUS 216 - Legal Environment of Business (3 Credits)
* CIS 220 - Fundamentals of Unix (3 Credits)
* CIS 240 - Database Design and Development (3 Credits)
* ECO 202 - Principles of Microeconomics: GT-SS1 (3 Credits)
* ENG 122 - English Composition II: GT-CO2 (3 Credits)

## Year 2: Spring

* BUS 217 - Business Communication & Report Writing (3 Credits)
* CIS 243 - Introduction to Structured Query Language (SQL) (3 Credits)
* CIS 267 - Management of Information Systems (3 Credits)
* HIS 208 - American Indian History: GT-HI1 (3 Credits)
* MAR 216 - Principles of Marketing (3 Credits)

# RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

## Year 1: Fall

* CIS 118 - Intro to PC Applications (3 Credits)
* ENG 121 - English Composition I: GT-CO1 (3 Credits)
* MAT 121 - College Algebra: GT-MA1 or Higher (4 Credits)

## Year 1: Spring

* COM 115 - Public Speaking OR COM 125 - Interpersonal Communication (3 Credits)
  + ~Recommended Communication Course(s)~
    - COM 115 - Public Speaking\*
* CSC 119 - Introduction to Programming (3 Credits)
* MAT 125 - Survey of Calculus: GT-MA1 (4 Credits)

## Year 1: Summer

* ACC 121 - Accounting Principles I (4 Credits)
* ECO 201 - Principles of Macroeconomics: GT-SS1 (3 Credits)

## Year 2: Fall

* BUS 115 - Introduction to Business (3 Credits)
* CIS 220 - Fundamentals of Unix (3 Credits)
* CIS 240 - Database Design and Development (3 Credits)

## Year 2: Spring

* CIS 243 - Introduction to Structured Query Language (SQL) (3 Credits)
* CIS 267 - Management of Information Systems (3 Credits)
* HIS 208 - American Indian History: GT-HI1 (3 Credits)

## Year 2: Summer

* BUS 217 - Business Communication & Report Writing (3 Credits)
* ENG 122 - English Composition II: GT-CO2 (3 Credits)

## Year 3: Fall

* BUS 216 - Legal Environment of Business (3 Credits)
* ECO 202 - Principles of Microeconomics: GT-SS1 (3 Credits)
* MAR 216 - Principles of Marketing (3 Credits)