

Information Systems

Associate of Applied Science

65 credit hours

The Associates of Applied Science in Information Systems (IS) is designed to introduce students to contemporary information systems and demonstrate how these systems are used throughout global organizations. The focus of this program will be on the key components of information systems – people, software, hardware, data, security, and communication technologies, and how these components can be integrated and managed to create competitive advantage. Upon completion of this degree program students will be prepared for entry level Information System jobs in Information Systems operations support and services.

Upon program completion students will be able to:

- Understand and explain how and why information systems are used today.
- Understand globalization and the role information systems play in businesses.
- Understand and analyze various types of information systems, including estimation of both costs and benefits.
- Understand and apply the major components of an information systems infrastructure.
- Understand, apply and evaluate how to secure information assurance.

Any student who is ineligible for state, national, or industry licensure or certification is ineligible for entry into this program.

Institutional and Related Requirements – 7 hours

UNIV 101 – Freshman Seminar – 3

MATH 104 – Preparatory Algebra – 4

New Mexico General Education Common Core (NMGECC) – 19 hours

I. Communicating Effectively – 9 hours

ENG 102 – English Composition – 3

ENG 233 – Writing for Technical Professionals – 3

COMM 101 – Interpersonal Communication – 3

II. Understanding and Applying Mathematical Principles – 3 hours

Required Course:

MATH 119 – College Algebra – 3

III. Science – 4 hours

Any science with a lab listed in the NMGECC

IV. Social Science – 3 hours

Recommended Courses:

PSCI 102 – American National Government – 3

PSY 101 – Introductory Psychology – 3

SOC 101 – Introductory Sociology – 3

or any Social Science listed in the NMGECC

Technical Requirements – 39 hours

BUS 241 – Business Mathematics – 3
CS 123/L – Programming Fundamentals/L – 4
CS 234 – Intermediate Programming – 3
MGT 201 – Principles of Management – 3

26 hours from the following:

IS 131 – Computer and Security Fundamentals – 3
IS 136 – Guide to Business Continuity and Disaster Recovery
IS 151 – Basic Computer Skills – 3
IS 153/L – Introduction of Information Systems/L – 4
IS 160 – Overview of Operating Systems & Utilities – 3
IS 170 – Systems Analysis & Design – 3
IS 241 – Introduction to Web Design – 3
IS 253 – Firewalls and How They Work – 3
IS 257 – Computer and Network Defense and Counter Measures – 3
IS 258 – Cyber Ethics, Professionalism, and Career Development – 3
IS 270 – Data and Information Management – 3
IS 281 – Spreadsheets and Data Analysis – 3
IS 287 – Application Development – 3
IS 299 – Programmatic Capstone – 1