Anderson School of Management
Master of Science in Information Systems and Assurance (MS-ISA)

ALL CONCENTRATION INFORMATION EFFECTIVE FOR STUDENTS ADMITTED FALL 2014 OR THEREAFTER.

The MS-ISA is a specialized graduate degree for students with an undergraduate background in information systems, information technology, computer science, computer-related engineering, accounting, or business administration. Pre-requisites for the program are: (1) coursework in object-oriented computer programming, and (2) professional communications skills. The program is at least 32-credit hours and includes a mix of management and technical courses tailored to specific student experience, background, and career goals. Students enrolled in this program will gain technical and managerial practice that prepares graduates for a wide variety of competitive jobs in the local and national markets.

Once admitted to this program, students work with a faculty advisor to develop a formal plan of study. The plan includes courses from 3 different categories: Core Group, Management Group, and Technology Group. Courses are selected to build on the student’s undergraduate degree and work experience and to match technology and management skills with the student’s intended career path. Plan of study approvals will be granted by a designated faculty advisor. A variety of courses are offered in the following areas of technical emphasis (see full course listing that follows):

- Data Analytics (Big Data), Database Management, and Data Warehousing
- Cybersecurity and Information Assurance
- Fraud, White Collar Crime, and Digital & Financial Forensics
- Information System Acquisition, Development and Management
- System & Network Administration and Security

MS-ISA program graduates fill market needs for highly-trained professionals in information systems and information assurance. There is a strong demand for graduates with a professionally-oriented Master's degree that combines technical and managerial content related to information systems and information assurance. National estimates show faster than average growth in job categories targeted by the MS-ISA program:

- Database administrators
- Forensic technology
- Fraud investigation
- Information security analysts
- Information system managers
- Software developers
- System and network administrators

Students are encouraged to work closely with the faculty advisor to learn about opportunities in this program, course selection, career prospects, and available scholarships. Students admitted to the MS-ISA program may also apply for the UNM Information Assurance Scholarship for Service Program (http://ia.unm.edu/sfs)

MS-ISA PROGRAM FACULTY ADVISOR
Ranjit Bose, Regents Professor
Email: rbose@unm.edu, (505) 277-7097, Office: ASM 2104
The MS-ISA consists of a Core Group — 9 credit hours, a Management Group — 12 credit hours minimum and a Technology Group – 12 credit hour minimum courses at the graduate level.

Students in the MS-ISA program will complete core group requirement and may select from the following required Management Group and Technology Group courses provided they have not taken the undergraduate equivalent. Please keep in mind the minimum and maximum coursework guidelines for your selection.

Coursework:

Required 9 credit hours Core Group Coursework:
MGMT 631 – Information Systems Project Management  
MGMT 636 – Information Systems Security  
MGMT 637 – Database Management Systems

Courses may be waived based on similar undergraduate/graduate courses or experience. Students who are granted waivers will complete additional courses in the technology group.

Required 12 credit hours minimum Management Group Coursework:
MGMT 501 – Data Driven Decision Making  
MGMT 502 – Financial Accounting and Analysis  
MGMT 503 – Managerial-Cost Accounting  
MGMT 506 – Managing People in Organizations  
MGMT 508 – Business and Society  
MGMT 520 – Operations Management  
MGMT 522 – Managerial Marketing  
MGMT 526 – Financial Decision Making  
MGMT 633 – Vendor & Contract Management

Up to 12 credit hours may be waived based on similar undergraduate/graduate courses or experience. Students who are granted waivers will complete additional courses in the technology group.

Required 12 credit hours minimum Technology Group Coursework:
MGMT 551 – Problems  
MGMT 552 – Problems  
MGMT 553 – Internal Auditing  
MGMT 594 – Special Topics in Management  
MGMT 599 – Master’s Thesis  
MGMT 630 – Management of Information Systems  
MGMT 632 – Web Application Development  
MGMT 634 – Information System Analysis and Design  
MGMT 635 – Data Analytics  
MGMT 638 – Advanced Database Management

MGMT 639 – Advanced IS/IA topics  
MGMT 641 – Forensic Accounting  
MGMT 642 – Fraud Examination  
MGMT 644 – Data Warehousing  
MGMT 645 – Data Mining for Business Decisions  
MGMT 646 – Digital Forensics  
MGMT 647 – System and Network Administration  
MGMT 648 – Advanced Information Systems Security  
MGMT 649 – Information Assurance Project  
MGMT 697 -- Internship

Computer science and Electrical and computer engineering courses (CS 521, CS 544, CS 565, CS 567, CS 581, CS 583, ECE 525, ECE 595, and other graduate-level CS and ECE courses with advance approval); and problems, special topics in management, or internship courses (MGMT 551, 552, 594, and 697) will be evaluated case by case.

http://masters.unm.edu/ms-isa/