MANAGEMENT INFORMATION SYSTEMS (MIS)

MIS 182 – Software Productivity Tools 3 credit hours
This course addresses computer competency and applications of computer word processing, spreadsheets, databases, Web pages.

MIS 188 – GS Portal 3 credit hours
Students analyze critical issues confronting individuals and society in a global context as they pertain to the discipline in which the Portal course is taught. The Portal is intended to help students succeed in their university education by being mentored in process of thinking critically about important ideas and articulating their own conclusions. Students may take the Portal in any discipline, irrespective of their major or minor. Satisfies the General Studies Portal course requirement. Students may take their Portal course in any discipline. Students who transfer 24 or more hours of General Studies credit to UNK are exempt from taking a portal course. Total Credits Allowed: 6.00 Prerequisite: First year freshman standing or sophomore standing only.

MIS 190 – IT Enabled Math for Decision Making 3 credit hours
This course is designed to cover fundamental IT enabled mathematical operations and their application to business problems. Some areas to be covered include: systems of equations and inequalities; sequences, inclusions, and the binomial theorem; counting and probability; basic statistics; simulation; data tables and what-if analysis; and enhancing decision-making using Solver. Prerequisite: MATH 102 and either MIS 182 or passing score on Computer Proficiency Test.

MIS 280H – Special Topics-Honors 1-3 credit hours
Total Credits Allowed: 3.00

MIS 282 – Business Intelligence using Databases 3 credit hours
This course provides an overview of leading technologies that are employed to deliver business intelligence to an enterprise. Emphasis is placed on incorporating computer-aided decision tools, such as Crystal Reports interfacing ERP databases, into the problem solving process. The importance of proper data structures and the conversion of data into information and the transformation of information into knowledge to improve business performance is stressed. An introduction into how data is created, stored, and used for management decision-making is provided. Several software packages are explored in depth and students are challenged to apply the right application in a correct manner to solve a wide variety of business problems. Prerequisite: Passing score on Business Computer Proficiency Exam or MIS 182.

MIS 302 – Principles of Management Information Systems 3 credit hours
The course provides an introduction and overview to the field of management of information systems (MIS). This course is designed to familiarize students with the critical roles of information and information systems in support of organizational operations, decision-making processes, quality management, and strategic activities. It also covers management of information systems functions and professionals, as well as relevant global, ethical, societal and legal/regulatory issues. Focus is placed on the impact of rapidly changing technologies, such as the Internet, on organizations leading to new paradigms, like e-commerce and business-to-business applications, and the subsequent reengineering of organizations. Prerequisite: Enrollment in MIS 302 is not allowed if CSIT 350 has been completed.

MIS 350 – Intermediate Business Intelligence through Data Mining 3 credit hours
Study of how business intelligence is extracted through data mining and used to support business functional activities. This course is designed to familiarize students with the critical role of data warehousing and data mining to organizational decision making process. Prerequisite: MIS 302 or CSIT 350 and junior standing.

MIS 380 – Web Software/Network Architecture 3 credit hours
This course presents a functional, systems-level review of network computing equipment and the organization of components and devices into architectural configurations. The result should be an in-depth student understanding of how computer systems are configured in network environments. Students learn the principles of system/Web-based software and build an understanding of combinations of data, network, and system/web-based software within architectural design. Prerequisite: MIS 282 and MIS 302.

MIS 381 – Systems Analysis and Design I 3 credit hours
System development using the life cycle, rapid application development, prototyping, and software testing. This course is coupled with MIS 481. Prerequisite: MIS 380 Enrollment not allowed in MIS 381 if CSIT 380 has been completed.

MIS 388 – GS Capstone 3 credit hours
An interdisciplinary experience where students apply the knowledge, cognitive abilities, and communication skills they have gained from General Studies in designing and completing an original project or paper. Students employ methods and interpretive means of two or more disciplines to integrate knowledge and synthesize their results. Satisfies the General Studies capstone course requirement. Students may take their Capstone course in any discipline. Prerequisite: Junior or senior level standing or within 6 hours of completing general studies requirements.

MIS 399 – Business Apprenticeship Program 1-3 credit hours
The Business Apprenticeship Program is designed to provide students with a variety of experiences which will facilitate competency in their chosen field of study. Students who plan to teach will assist faculty members in preparing bibliographies, in research, in translations, in aiding classroom discussions, in preparing special lectures and programs, in grading and preparing examinations. Must by approved by Department Chair. This course may be repeated to a maximum of 6 credits. Total Credits Allowed: 18.00
MIS 410 – Advanced Business Intelligence using Neural Networks and Advanced Data Mining  3 credit hours
This course provides an understanding of advanced techniques to extract business intelligence. Neural networks and data mining tools are covered extensively.
Prerequisite: MIS 350

MIS 421 – Business Process Redesign and ERP Systems  3 credit hours
This course provides an understanding of business processes and usage of various methods and computerized tools to redesign these processes. The redesigned processes will assist organizations in providing cost-effective quality products and services to consumers. Further, this course provides an overview of the Enterprise Resource Planning (ERP) Systems which are widely used by corporations for automation of their processes.
Prerequisite: Junior standing

MIS 430 – Knowledge Management and Expert Syst  3 credit hours
This course provides a set of practical and powerful tools to ensure the understanding of knowledge management systems and expert systems. The exposure to computerized tools facilitates development of expert systems.
Prerequisite: MIS 350

MIS 440 – Systems Audit  3 credit hours
This course provides an understanding of many types of audit needs, such as organizational IT audits (management control over IT), technical IT audits (infrastructure, data centers, data communication), application IT audit (business, financial, operational), development/implementation IT audits (specification/requirements, design, development, and post development phases), and compliance IT audits involving national and international standards.
Prerequisite: Senior standing

MIS 450 – Software Quality Assurance  3 credit hours
The software industry has witnessed recently a dramatic rise in the impact and effectiveness of software quality assurance (SQA). SQA has become integrated into all phases of software development. This course provides an overview of various concepts/techniques such as inspection, Pareto principles, software configuration management, capability maturity models, statistical testing methods, software reliability, and software safety. It also distinguishes the variations in SQA applications for mission-critical software and commercial software.
Prerequisite: MIS 381 or CSIT 380

MIS 475 – Management Information Systems Internship  1-15 credit hours
A work experience program planned for students preparing for employment in business and industry. The learning situation is supervised by the academic department and personnel of selected industries. Work experience approved by the department.
Total Credits Allowed: 15.00
Prerequisite: Minimum GPA of 2.50 and MIS 302

MIS 481 – Systems Analysis and Design II  3 credit hours
This course is a continuation of MIS 381. Students use several software packages as they work through the steps of the system development life cycle with business cases.
Prerequisite: MIS 381

MIS 485 – Information Systems Strategy and Management  3 credit hours
The course provides a set of practical and powerful tools to ensure the understanding of strategic, tactical, and operational responsibilities of the chief information officer (CIO). The strategic responsibilities include the strategic alignment among information technology and business functions of the organizations. MIS 380 is recommended.
Prerequisite: Junior standing

MIS 498 – Management Information Systems Topics  3 credit hours
Selected topics and problems of current interest considered in depth. Class discussion and course projects. Topics vary each semester depending upon instructor.

MIS 499 – Special Problems in Business  1-3 credit hours
Independent investigations of business problems. Topics to be investigated may be tailored to meet the needs of the student. A case study course designed (1) to integrate the knowledge acquired in other courses in business administration, and (2) to emphasize analysis and decision-making.
Department Consent Required
Total Credits Allowed: 18.00