MANAGEMENT INFORMATION SYSTEMS (MIS)

MIS 182 – Software Productivity Tools 3 credit hours
This lab course addresses competency and applications of computer
skills. Software covered includes: operating systems and environments,
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,
inductions, 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
Data Analytics uses real-time processing of sentiment, buzz, social
networks, context and/or other data of interest to improve performance
and impact. This course gives an overview of how business intelligence
leverages data analytics to enable more informed decisions and to
influence others. Students learn how to develop, explore, and answer their
own questions using analytical processes to examine big datasets.
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 be 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 Systems 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