

# DEPARTMENT OF ANALYTICS, INFORMATION SYSTEMS, AND SUPPLY CHAIN

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**Website:** Forthcoming

## Vision

The Department of Analytics, Information Systems, and Supply Chain aspires to develop professionals to be leaders by offering a high quality education in business analytics by offering undergraduate major degree programs in Information Systems and Supply Chain and a Master of Science degree in Project Management (<http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/analytics-information-systems-and-supply-chain/project-management-ms/>).

## Mission

The Analytics, Information Systems, and Supply Chain Department's mission is to equip students with the requisite knowledge and skills in business analytics, information systems, supply chain management, project management, and related careers. The department is committed to excellence in teaching, intellectual contributions, and service.

### Graduate Programs in the Department of Analytics, Information Systems, and Supply Chain

- Master of Science in Project Management (<http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/analytics-information-systems-and-supply-chain/project-management-ms/>)
- Graduate Certificate in Project Methods and Tools (<http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/analytics-information-systems-and-supply-chain/project-methods-and-tools-certificate/>)
- Graduate Certificate in Quality Management Tools (<http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/analytics-information-systems-and-supply-chain/quality-management-tools-certificate/>)

### Graduate Programs in the College of Business Administration

- Executive Master of Business Administration in Banking and Financial Institutions (<http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/emba/>)
- Master of Business Administration (<http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/mba/>)
- Master of Business Administration: Accelerated Track (<http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/accelerated-mba/>)
- Master of Science in Accounting (<http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/accounting/accounting-ms/>)
- Master of Science in Applied Economics (<http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/economics-international-business/applied-economics-ms/>)

## Scholarships

Scholarships are available on a competitive basis. Students are encouraged to apply for scholarships using the Scholarships4Kats (<https://shsu.academicworks.com/>) program on the Financial Aid (<http://www.shsu.edu/dept/financial-aid/>) website. The Scholarships4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. Specific to the Master of Science in Project Management (<http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/analytics-information-systems-and-supply-chain/project-management-ms/>), the Department offers a number of scholarships thanks to the Project Management Institute Houston (PMIH) Chapter. The deadline for applying for College of Business Administration scholarships is December 31.

Please see the College of Business Administration section (<http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/#opportunities>) for information on college and university-level scholarships.

## Management Information Systems

### MGIS 5080. Independent Study. 1-3 Hours.

This course is designed for directed study of individual students who wish intensive study in some specific area of Management Information Systems. Variable credit (1-3). Course Equivalents: MGIS 5380

**Prerequisite:** Approval of Department Chair and Graduate Coordinator.

**MGIS 5085. Special Topic. 1-3 Hours.**

This course of faculty-led study is designed to provide graduate students exposure to new Management Information Systems topics and concepts in a course setting. Variable credit (1-3). Course Equivalents: MGIS 5385 .

**MGIS 5310. Seminar in Management Information Systems. 3 Hours.**

An in-depth study of business information systems. This course covers computer hardware, software, procedures, systems, and human resources and explores their integration and application in business. Topics include: end-user, computing and development, networking, and data collection and communication. The course content will be adaptive to stay current. The course content will be adaptive to stay current with individual research agendas.

**MGIS 5330. Business Applications of Database Management Systems (DBMS). 3 Hours.**

Business Applications of DBMS. Database management systems are at the heart of modern business information systems. They facilitate the sharing of data across the organization, and therefore support the notion that data is a corporate resource. Data management, which focuses on data collection, storage, and retrieval, thus constitutes a core activity for any organization. Students with appropriate backgrounds can work individually in specific areas of interest.

**MGIS 5360. Project Management for Business Systems Development. 3 Hours.**

The courses examines the management of business system development and modification projects. It emphasizes the factors for effective communication and integration with users and user systems. It encourages interpersonal skill development with clients, users, team members, and others associated with development, operation and maintenance of the system. Adherence to methodological life cycle analysis and construction techniques are taught in the context of the creation of business-oriented systems. Students work individually and in teams to solve business problems.

**MGIS 5375. Enterprise Resource Planning Business Process Integration. 3 Hours.**

This course uses the SAP ERP information system paradigm as a model for examination and development of integrated business process solutions. Students examine the conceptual background, rationale, methods, and procedures commonly employed by businesses in developing and configuring integrated business systems. Students will obtain practice and training through cases and hands-on experience using SAP ERP by requiring them to configure business process solutions through integration of financial, controlling, production, materials management, sales and distribution, manufacturing, and other ERP process modules.

**Prerequisite:** Thirty-six hours of business related courses of which twelve must be at the graduate level, completion of the MBA core courses and ACCT 5304 or ACCT 5347, or permission of the instructor.

## Supply Chain Management

**SCMG 5315. Seminar Operations Management. 3 Hours.**

The operations management function in a business enterprise has always been central to the activities of the organization. Achieving world-class competitiveness in either the manufacturing or service sectors demands that modern managers understand how to apply the fundamentals of operations management. The course covers various topics, with a focus of exposing the student to a variety of methods that will assist with problem solving and decision-making. Course Equivalents: MGMT 5315 .

**SCMG 5316. Supply Chain Management. 3 Hours.**

Students apply the skills and knowledge needed for supply chain management in their projects and organizations. Course content includes an examination of strategies to optimize operations within a network of partners, develop integrative processes, and leverage information systems in an efficient manner. Course Equivalents: MGMT 5316 .

**SCMG 5318. Quality Management. 3 Hours.**

Students are provided with the skills and knowledge needed to advance quality in their projects and organizations. This course covers current topics in quality management, such as total quality control, statistical quality control, statistical process control, quality circles, continuous improvement, definition and measurement of outcomes, and techniques to achieve increased quality of organizational activities. Course Equivalents: MGMT 5318

**Prerequisite:** Graduate Standing.

**SCMG 5323. Tools of Project Management. 3 Hours.**

Students are provided with the knowledge of and practice with project management tools, which includes tools and techniques for project planning and selection, project initiation and portfolio management, risk management, and implementation and closure. Course Equivalents: MGMT 5323

**Prerequisite:** Graduate standing.

**SCMG 5325. Project Management. 3 Hours.**

Students learn how to plan, implement, control, and close projects. Topics may include project scope and definition, time and cost management, conflict resolution and team processes, resource allocation, scheduling, and life cycle management. Course Equivalents: MGMT 5325 .

**SCMG 5327. Agile Project Management. 3 Hours.**

Students examine an iterative approach to project management while investigating the principles of agile project management, agile manifesto, iterative life cycles, Kanban scheduling systems, just-in-time scheduling, resource capacity, environment, decision-making, and the adaptive characteristics of an agile environment. Course Equivalents: SCMG 5327 .

**SCMG 5330. Operations Planning & Control. 3 Hours.**

Students cover operations planning and control systems in project, manufacturing and service environments. Topics may include resource control, resource planning, scheduling, capacity planning, operations planning and control software. Course Equivalents: MGMT 5330 .

**SCMG 5375. Enterprise Resource Planning Business Process Integration. 3 Hours.**

This course uses the SAP ERP information system paradigm as a model for examination and development of integrated business process solutions. Students examine the conceptual background, rationale, methods, and procedures commonly employed by businesses in developing and configuring integrated business systems. Students obtain practice and training through cases and hands-on experience using SAP ERP by requiring them to configure business process solutions through integration of financial, controlling, production, materials management, sales and distribution, manufacturing, and other ERP process modules. Course Equivalents: MGMT 5375

**Prerequisite:** Thirty-six hours of business related courses of which twelve must be at the graduate level, completion of the MBA core courses and ACCT 5304 or ACCT 5347, or permission of the instructor.

**SCMG 5395. Project Management Capstone. 3 Hours.**

Students evaluate the knowledge areas of project management as they apply to real world situations. This course takes a hands-on approach using a number of methodologies such as case studies, project audits, and class projects. Emphasis is placed on applying the concepts of project management to a variety of business disciplines. Course Equivalents: MGMT 5338

**Prerequisite:** Admission to the Project Management Program, SCMG 5325, SCMG 5330, SCMG 5323, and completion of 24 graduate credits.

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