

DEPARTMENT OF ANALYTICS, INFORMATION SYSTEMS, AND SUPPLY CHAIN

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Website: Department of Analytics, Information Systems, and Supply Chain Management (<https://www.shsu.edu/academics/colleges/business-administration/analytics-information-systems-supply-chain/>)

Vision

The Department of Analytics, Information Systems, and Supply Chain aspires to be a catalyst for innovation and leadership. We are dedicated to empowering future professionals through exceptional undergraduate programs in Information Systems and Supply Chain, and a distinguished Master of Science degree in Project Management (<https://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/analytics-information-systems-and-supply-chain/project-management-ms/>). Our vision is to inspire students to become forward-thinking leaders who drive meaningful change in a rapidly evolving global landscape.

Mission

The mission of the Department of Analytics, Information Systems, and Supply Chain is to empower students with the knowledge and skills necessary for success in business analytics, information systems, supply chain management, and project management. We are committed to excellence in teaching, scholarly contributions, and service, while actively supporting and enhancing the broader academic mission of the College of Business Administration through interdisciplinary collaboration and shared innovation.

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

- Master of Science in Project Management (<https://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 (<https://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 (<https://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 (<https://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/emba/>)
- Master of Business Administration (<https://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/mba/>)
- Master of Science in Accounting (<https://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/accounting-accounting-ms/>)
- Master of Science in Applied Economics (<https://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://www.shsu.edu/cost-aid/types-of-aid/scholarships/>) 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. The deadline for applying for College of Business Administration scholarships is December 31.

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

Business Analysis (BANA)

BANA 5080. Independent Study. 1-3 Hours.

A directed study for individual students who wish intensive work in a special topic area of business analysis. Variable credit (1-3). Course Equivalents: BANA 5380

Prerequisite: Approval of Department Chair and Graduate Coordinator.

BANA 5085. Special Topics in Business Analytics. 1-3 Hours.

Students explore new developments, methodologies, and strategic applications in the ever-changing field of business analytics. Designed to be adaptive to emerging industry trends, the course emphasizes analytical rigor, critical thinking, and innovation in data-driven decision making. Students will engage in complex case analyses, hands-on projects, and collaborative research that reflect real-world challenges faced by organizations. Topics and tools may vary by semester to align with current market demands and faculty expertise, ensuring relevance and depth. Credit variable 1 to 3.

BANA 5368. Techniques Of Statistical Analysis. 3 Hours.

An integration of the concepts and application of statistical and quantitative techniques currently used in business decision making. Readings in the current literature related to statistical inference, ANOVA, correlation, simple linear regression, multiple regression, questionnaire construction and analysis will be covered.

Management Information Systems (MGIS)

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 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.

Supply Chain Management (SCMG)

SCMG 5080. Independent Study in Supply Chain Management. 1-3 Hours.

The student may pursue studies for which a special course is not organized. The credit in this course varies according to the work performed. Variable Credit 1 to 3.

Prerequisite: Departmental Approval.

SCMG 5085. Special Topic in Supply Chain Management. 1-3 Hours.

Students explore emerging trends in Supply Chain Management. Designed as a flexible and dynamic offering, the course content varies to reflect current developments in the field. Variable Credit 1 to 3.

SCMG 5101. Project Management Skills Credit Option. 1 Hour.

Students review material from various project management courses in preparation for completing comprehensive exams. Up to 9 hours of graduate credit-by-exam may be awarded for qualifying exam scores. Enrollment requires prior completion of a Project Management Professional (PMP) Bootcamp or a current PMP Certification. Administrative approval required. This course does not apply to the 30 or 36-hour graduate credit-hour requirement of the MS in Project Management or the MBA degree programs.

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 5320. Management of Innovation and Technology. 3 Hours.

Students study current topics in the management of creativity, innovation, technology, and quality assurance. Guest speakers and experiential exercises are utilized in addition to lectures, student presentations, and class discussion of topics. The major project in the course is the development of a technology forecast in a particular technology area through the use of the literature and contact with researchers and leaders in the selected field.

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 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.

Information forthcoming.