Managers must understand that well-managed information can add value to facilitate the creation and revision of new products and services; promote the efficiency and effectiveness of business processes of the global extended enterprise; and transform the relationships with customers, suppliers, and competitors. Covers topics including the strategic uses of information and information technology; the role of information for transforming business processes; e-commerce; and the alignment of business processes, technology, and information.

MGSC 6206. Management of Service and Manufacturing Operations. 3 Hours.
Focuses on decision making by an operations manager. The operations manager's major job function is to provide quality products and services desired by customers, on time and at a competitive cost. Helps the operations manager to perform this function in both the manufacturing and service sectors of the economy. Explores operations management concepts, techniques, and models. These include the optimum allocation and efficient utilization of manpower, materials, equipment, and technology at strategic and tactical levels in the organization. Topics include process analysis, capacity planning, materials management, resource allocation, quality management, and scheduling.

MGSC 6207. Data Analysis for Decision Making. 2 Hours.
Covers basic statistical skills in using methods of data analysis. Seeks to improve analytical skills of the students, to develop knowledge and appreciation for models and other technical tools, and to prepare students to be effective communicators of their analyses and findings to management. Uses business applications and computer software to teach students how to evaluate, analyze, and interpret data and models and present their findings and conclusions to assist in rational decision making. Topics include statistical sampling, estimation, testing hypotheses, and basic regression models.

MGSC 6209. Business Statistics. 3 Hours.
Offers an introductory course in business statistics. Seeks to provide students with the opportunity to learn the most common statistical and analytical tools used in business decision making and to develop skills that enable them to recognize business problems and which statistical methods can be used most effectively given the problem.

MGSC 6221. Introduction to Health Informatics and Health Information Systems. 3 Hours.
Introduces the history and current status of information systems in healthcare: information architectures, administrative and clinical applications, evidence-based medicine, information retrieval, decision support systems, security and confidentiality, bioinformatics, information system cycles, the electronic health record, key health information systems and standards, and medical devices.
MGSC 6281. Service Innovation and Management. 3 Hours.
Examines innovation in services and the internal management of
business processes. Uses a framework of service/process redesign.
Emphasizes strategic initiatives and key organizational change elements
critical for improving services to customers; increasing profitability; and
building long-term customer loyalty across multiple industry sectors,
including information technology, healthcare, financial services, and
government. Introduces the various strategic aspects of process
improvement in the delivery of services, including managing change and
the resulting impact on the organization, supply-chain management in
the service industry, process improvement, overcoming organizational
resistance, customer involvement, empowerment, and the role of
leadership in managing operations. Through guided project work, offers
students an opportunity to apply these concepts to services and internal
business processes at their own organizations.

MGSC 6962. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions.
May be repeated without limit.

MGSC 7976. Directed Study. 1-4 Hours.
Offers independent work under the direction of members of the
department on chosen topics. May be repeated without limit.