The supply chain management major consists of the business core curriculum (31 credits) and electives (24 credits). Four of the courses are required: 799:320 Global Procurement and Sourcing Strategies; 799:310 Demand Planning and Fulfillment; 799:330 Business Logistics and Transportation; 799:380 Introduction to Project Management. Choose one between 799:420 SCM Industry Client Projects and 799:493 Internship in SCM.

**799:301 Introduction to Supply Chain Management (3)** This course provides an overview of Supply Chain Management (SCM) and defines its role in the overall business strategy of a firm. It provides students with a comprehensive overview of the business processes and activities of a supply chain including sourcing, procurement, sales and operations planning, distribution and demand management. The emphasis of this course is on identifying the SCM-related business processes, problems encountered in practice and the new challenges facing SCM practitioners. It combines SCM business knowledge with analytical thinking and problem solving. It serves as a roadmap to subsequent in-depth courses on SCM related topics. **Prerequisites: none. Admission to Rutgers Business School.**

**799:310 Demand Planning and Fulfillment (3)** This course focuses on important planning strategies and tools that are commonly used in business practices. The major topics include demand forecasting, sales and operations planning (S&OP), inventory management, material requirement planning (MRP), and revenue management and pricing strategies. **Prerequisites: 799:301. Admission to Rutgers Business School.**

**799:320 Global Procurement and Sourcing Strategies (3)** All companies into today’s competitive global marketplace face unprecedented pressures to create both shareholder and customer value. A superior procurement and strategic sourcing process can increase shareholder returns by up to 15% while improving the level of service to the customer. The course material will focus on the fundamental tools, techniques, sourcing strategies, and processes used by world-class firms. Case studies are introduced to connect the course materials to the practices. Students who take this course will be thoroughly prepared for procurement and sourcing positions at global firms. **Prerequisites: 799:301. Admission to Rutgers Business School.**

**799:330 Business Logistics and Transportation (3)** An introduction to the fundamentals of logistics and transportation. Course coverage includes the design of channels of distribution, management of inventory, evaluation of transportation alternatives, information flows, facility location, outsourcing, and the rapidly expanding field of logistics information technology. **Prerequisites: 799:301. Admission to Rutgers Business School.**

**799:380 Introduction to Project Management (3)** Introduction to the classical foundations of project management; Explore modern real-life project problems; Learn key concepts of initiating, planning, organizing, controlling, and running a project. Particular emphasis on projects in the area of supply chain management. Extensive use of case studies. The course follows accepted project management guidelines and applies these concepts to actual projects in the classroom. **Prerequisites: 799:301. Admission to Rutgers Business School.**
799:410 Service Management (3) Introduction to both the operational and marketing perspectives of service management; Explore the nature of services in the real business world; Learn key concepts of designing, managing and supporting a service enterprise. Case studies and field trips are involved. Prerequisites: 799:301. Admission to Rutgers Business School.

799:420 SCM Industry Client Projects (3) The main purpose of the course is to give students a thorough understanding, first-hand knowledge, and solid working experience of a real life industry supply chain management projects. Working closely with Rutgers’ industry client contacts, projects are assigned to teams and the team works directly with industry client to deliver required objectives. In addition to the projects, the course is supplemented with guest lectures by distinguished executives and faculty on recent best practices and new challenges in the Supply Chain Management field. Prerequisites: 799:301 and 799:380. Admission to Rutgers Business School.

799:421 Co-op in Supply Chain Management (3) The main purpose of the course is to give students a solid working experience at a company within the supply chain management function. Students will work on a full time basis, for up to 6 continuous months, in compliance with the RBS Co-Op Policies and Guidelines. The work will be in the area of Supply Chain with predefined objectives agreed to by both the Client Company and the faculty advisor. Students will gain practical “hands on” experience that will supplement their academic learning in the area of Supply Chain. Prerequisites: 799:301. Admission to Rutgers Business School.

799:430 Supply Chain Risk and Disruption Management (3) Properly addressing risks and facing possible disruptions are of primary importance to supply chains. With the wake of high consequence disruptive events, risk identification and disruption response activities have become ever more critical. The objective of the course is to provide an overview of key supply chain risk areas, particularly with the proliferation of outsourcing, use of information technology and global logistics. Equally important is how companies are managing the preparation, mitigation and response strategies to major disruptive events. Topics covered include vulnerability and threat assessments, resources and capabilities identification/integration, basic crisis management, contingency planning, disaster recovery and business continuity in supply chain settings. Scenario based experiments (table-top exercises) will provide mock situations where students will make decisions on how to handle supply chain disruptions. Prerequisites: 799:301. Admission to Rutgers Business School.

33:799:440 Supply Chain Environmental Management/Green Purchasing (3) After building a comprehensive knowledge of ‘green’ supply chain and purchasing techniques, this course will allow students to participate in several applied research projects. Projects will include designing green supply chain and procurement systems and products, integrated with economic, environmental, social and ethical considerations and corporate reporting. Prerequisites: 799:301. Admission to Rutgers Business School.

799:450 Fundamentals of Supply Chain Solutions with SAP (3) Provide a foundation for understanding the process integration of business-wide functions supported by ERP systems; examine the benefits
and risks of implementing ERP; investigate the guidelines for ERP system implementation and application; offer hands-on practice in SAP ECC to illustrate the basic concepts, capabilities and advantages of ERP. **Prerequisites:** 799:301. Admission to Rutgers Business School.

**799:460 Introduction to Six Sigma and Lean Manufacturing (3)** This course provides fundamentals of six sigma, lean manufacturing, methodology and tools along with change management and other important strategies to improve the performance of business processes. Through case studies and team exercises, students will practice solving business problems and improving processes using these powerful tools and concepts. Topics covered will include: six sigma improvement methodology and tools, lean thinking tools and cultural approach, dashboards, process mapping, applied statistics and other business improvement techniques. Students will also gain an understanding of: the strategic importance of business improvement, the need for fact based management and how to deploy these tools in different parts of the value chain. **Prerequisites:** 799:301. Admission to Rutgers Business School.

**799:470 Business Intelligence for Supply Chains and Marketing (3)** An overview of business intelligence in the field of supply chain management and marketing. Addresses how to leverage business intelligence systems to define KPIs, sharpen the accuracy of forecasting and planning, track business activities, and deliver dashboards, scorecards, strategic reporting, and operational/real-time reporting to enhance decision making for supply chain and marketing. SAP business intelligence solution is introduced to illustrate the concepts. **Prerequisites:** 799:301. Admission to Rutgers Business School.

**799:480 Supply Chain Finance (3)** Senior executives of leading companies understand the value of the supply chain as a critical driver of shareholder value. In many firms the supply chain includes most of the assets of the firm such as the majority of the inventory, 60 to 70% of the cost, and is the foundation for generating revenue by providing outstanding product availability. As Supply Chain organizations evolve from back office tactical operations into strategic functions driving bottom line profitability and enterprise value, it is becoming increasingly more important for supply chain professionals to engage as business partners and “speak the language” of the CFO. It is no longer sufficient for the supply chain organization to only assure continuous supply and drive down costs. Inside world-class organizations the supply chain function is viewed by senior leadership as a critical success factor to achieving optimal “financial health” reflected on the P&L, balance sheet and funds flow statements. This necessitates that supply chain professional understand the financial impacts of their decisions and actions and are adept at “pulling the right levers” to improve the firm’s financial scorecard. **Prerequisites:** 799:301. Admission to Rutgers Business School.

**799:490, 491,492 Special Topics in Supply Chain Management (3)** The topics in this course sequence vary semester by semester. Sample topics include supply chain, marketing and finance interfaces, and supply chain management strategies in health care and pharmaceutical industries. **Prerequisites:** 799:301. Admission to Rutgers Business School.
799:493 *Internship in Supply Chain Management (1-3)* The main purpose of the course is to give students a solid working experience at a company within the supply chain management function. Students will work on a part-time basis, for up to 4 continuous months, in compliance with the RBS Internship Policies and Guidelines. The work will be in the area of Supply Chain with predefined objectives agreed to by both the Client Company and the faculty advisor. Students will gain practical “hands on” experience that will supplement their academic learning in the area of Supply Chain. *Prerequisites: 799:301. Admission to Rutgers Business School.*

799:495/496 *Departmental Honors in Supply Chain (3)* These credits represent the senior year thesis, done either as Departmental Honors in Supply Chain, or in fulfillment of the Honors Program Capstone Project requirement. Students will work on a supply chain project and write a thesis under the guidance of a faculty member. *Prerequisites: 33:799:301. Admission to Rutgers Business School-New Brunswick and the SAS Honors Program, or departmental permission. Supply Chain majors only.*

799:498/499 *Independent Studies in Supply Chain (3)* Students will work on a supply chain project and write a report under the guidance of a faculty member. *Prerequisites: 33:799:301. Admission to Rutgers Business School. Departmental approval is required. Supply Chain majors only.*