Operations and Business Analytics Courses

Courses

OBA 199. Special Studies: [Topic]. 1-5 Credits.
Repeatable when the topic changes.

OBA 311. Business Analytics I. 4 Credits.
Explores standard protocols for describing and modeling business information and processes; techniques for designing management information systems; criteria for analyzing firms' implementations of information technology. Students cannot receive credit for both OBA 311 and OBA 311H. Sophomore standing required.
Prereq: BA 101, BA 240, EC 201, MATH 241, STAT 243Z.

OBA 312. Business Analytics II. 4 Credits.
Computer-aided business applications of hypothesis testing, simple linear regression. Introduction to multiple regression and nonparametric techniques. Blocked and completely randomized one- and two-factor experimental designs. Students cannot receive credit for both OBA 312 and OBA 312H. Sophomore standing required.
Prereq: OBA 311 or equivalent.

OBA 335. Operations Management. 4 Credits.
Concepts and applications of operations management. Use of information technology in operations. Topics include forecasting, quality, supply chain management, information systems in operations management, and planning and scheduling. Students cannot receive credit for both OBA 335 and OBA 335H. Sophomore standing required.
Prereq: BA 101, BA 240, EC 201, MATH 241, STAT 243Z.

OBA 335H. Operations Management. 4 Credits.
Concepts and applications of operations management. Use of information technology in operations. Topics include forecasting, quality, supply chain management, information systems in operations management, and planning and scheduling. Students cannot receive credit for both OBA 335 and OBA 335H. Sophomore standing required.
Prereq: BA 101, BA 240, EC 201, MATH 241, STAT 243Z.

OBA 401. Research: [Topic]. 1-21 Credits.
Repeatable.

OBA 403. Thesis. 1-6 Credits.
Repeatable.

OBA 405. Special Problems: [Topic]. 1-12 Credits.
Repeatable.

OBA 406. Practicum: [Topic]. 1-12 Credits.
Repeatable.

OBA 407. Seminar: [Topic]. 1-4 Credits.
Repeatable.

OBA 409. Terminal Project. 1-12 Credits.
Repeatable.

OBA 410. Experimental Course: [Topic]. 1-4 Credits.
Repeatable when the topic changes. Recent topics include Service Operations, Business Analytics, Analyzing Big Data.

OBA 444. Business Database Management Systems. 4 Credits.
Techniques for structuring and storing business data; primary focus on relational database theory, with applied skills for business users, including data warehouses, reporting, and normalization.
Prereq: OBA 340 or OBA 340H.

OBA 455. Data Driven Predictive Modeling. 4 Credits.
Introduction to basics of programming and fundamentals of predictive modeling.
Prereq: OBA 312 or MATH 345M.

OBA 466. Project and Operations Management Models. 4 Credits.
Frameworks and solutions for managing complex projects and operations; implementing optimal strategies for producing profitable new products and services in the competitive global business environment.
Prereq: OBA 335 or 335H.

OBA 477. Supply-Chain Operations and Information. 4 Credits.
Strategic and tactical issues pertaining to the distribution and delivery of products and services. Methodologies and systems for designing, tracking, and managing complex global operations.
Prereq: OBA 335 or 335H.

OBA 503. Thesis. 1-16 Credits.
Repeatable.

OBA 510. Experimental Course: [Topic]. 1-4 Credits.
Repeatable when the topic changes. Recent topics include Service Operations, Business Analytics, Analyzing Big Data.

OBA 544. Business Database Management Systems. 4 Credits.
Techniques for structuring and storing business data; primary focus on relational database theory, with applied skills for business users, including data warehouses, reporting, and normalization.
Prereq: all MBA core courses.

OBA 555. Data Driven Predictive Modeling. 4 Credits.
Introduction to basics of programming and fundamentals of predictive modeling.

OBA 566. Project and Operations Management Models. 4 Credits.
Frameworks and solutions for managing complex projects and operations; implementing optimal strategies for producing profitable new products and services in the competitive global business environment.
Prereq: all MBA core courses.

OBA 577. Supply-Chain Operations and Information. 4 Credits.
Strategic and tactical issues pertaining to the distribution and delivery of products and services. Methodologies and systems for designing, tracking, and managing complex global operations.
Prereq: all MBA core courses.

OBA 601. Research: [Topic]. 1-16 Credits.
Repeatable.

OBA 603. Dissertation. 1-16 Credits.
Repeatable.

OBA 605. Reading and Conference: [Topic]. 1-16 Credits.
Repeatable.

OBA 606. Practicum: [Topic]. 1-16 Credits.
Repeatable.

OBA 607. Seminar: [Topic]. 1-3 Credits.
Repeatable.

OBA 608. Workshop: [Topic]. 1-16 Credits.
Repeatable.

OBA 609. Terminal Project. 1-12 Credits.
Repeatable.

OBA 610. Experimental Course: [Topic]. 1-5 Credits.
Repeatable when the topic changes.

OBA 612. Quantitative Methods for Managers. 3 Credits.
Concepts and techniques of analytic decision making, sampling and statistical inference, and regression analysis.

OBA 613. Operations Management. 3 Credits.
Overview of the managerial issues associated with production and delivery of goods and services. Includes the use of quantitative modeling and several case studies in operations.