

BACHELOR OF APPLIED SCIENCE (BAS)

BAS 4253 Quality Control

This course provides the student with a substantive background in a prevailing approach to quality control and continuous improvement: The Toyota Way. The course addresses quality control and continuous improvement as a complex methodology with two primary dimensions: "Continuous Improvement" and "Respect for the People." The emphasis of the course is how theory and application can inform the practice of quality control and continuous improvement in a wide-array of organizational settings. Students are expected to understand the theoretical basis of the model and how to apply the model to practical solutions.

Note: Participation in the course requires access to a computer, the internet, and a webcam or other video capture technology.

BAS 4353 Project Management

This course provides the student with a substantive background in project management effective for deployment in multiple industrial, manufacturing, and technical domains. The course prepares the student to pursue the Certified Associate in Project Management (CAPM) credential offered by the Project Management Institute (PMI). The CAPM is designed for those with less project experience and is intended to demonstrate candidate's understanding of the fundamental knowledge, terminology, and processes of effective project management.

Note: Participation in the course requires access to a computer, the internet, and a webcam or other video capture technology.

BAS 4363 Project Risk Analysis and Mitigation

Prerequisite: BAS 4353.

BAS 4363 Project Risk Analysis and Mitigation explores the essential process of risk management mitigation in defined projects. Students assess the failures of risk management to deliver expected risk mitigation results, apply a risk management process with a focus on achieving efficacy, and the implementation of risk management to various types of projects in organizations (nonprofit, governmental and for-profit) and individual endeavors. The Active Threat and Opportunity Management (ATOM) process is designed to meet the need for a simple scalable risk management process applicable to all projects.

Note: Participation in the course requires access to a computer, the internet, and a webcam or other video capture technology.

BAS 4373 Leading Agile Projects

Prerequisite: BAS 4353.

Project management is multi-faceted. In this course, students enhance their knowledge and application of project management by mastering the fundamentals of agile project management. Mastery includes the mechanics of how one employs agile project based on Scrum, the impact of agile on the project management profession, and how agile project management broadens and expands project management skills to deploy an integrated approach.

Note: Participation in the course requires access to a computer, the internet, and a webcam or other video capture technology.

BAS 4453 Root Cause Analysis

This course is designed to introduce students to the systematic processes of problem solving and root cause analysis. Students will learn how to apply root cause methodologies to identify and solve complex issues in organizations. Topics covered include: incident investigation, data collection and analysis, solution identification and implementation, and assessment.

Note: Participation in the course requires access to a computer, the internet, and a webcam or other video capture technology.

BAS 4553 Workplace Health and Safety

This course provides an in-depth study of various occupational health and safety issues that industry professionals face. The course focuses on safety-related legislation and business laws, ethical standards in safety, accident causation and investigation, ergonomics and safety management, psychology of safety and safety performance improvement measures, workplace violence and security measures, hazardous materials and transportation safety. \$189 course fee.

Note: Participation in the course requires access to a computer, the internet, and a webcam or other video capture technology.

BAS 4653 Production Scheduling

This course provides the student with deployable knowledge and skills in production planning and scheduling, effective for use in multiple industrial, manufacturing, and technical domains. Master scheduling is the pivotal point in a manufacturing business when demand from the marketplace is balanced with the capabilities and capacities of the company and its suppliers in real-time terms. This course defines the master scheduling process, explores specific tools and techniques used in various manufacturing environments, and provides an introduction to the supporting functions of production planning and scheduling.

Note: Participation in the course requires access to a computer, the internet, and a webcam or other video capture technology.

BAS 4751 Career Planning and Personal Development

Prerequisite: Senior Standing.

In this course, students develop an ePortfolio highlighting various competencies learned as a BAS student. The course prepares the BAS student with the skills, knowledge, and abilities to communicate a critical understanding of his/her work through the articulation of goals, critique, and self-assessment. The course introduces students to the portfolio development process and improves their ability to think critically and communicate more effectively while developing personal goals and mission statements, and working collaboratively with other students on competency-based case studies.

Note: Participation in the course requires access to a computer, the internet, and a webcam or other video capture technology.