

**Bachelor of Science** 

## **Bachelor of Science in Quality Systems and Improvement** Management (BSQSIM)

CIP 520201 • 120 credits

## **Program Description**

The BSQSIM teaches theory that is critical to the discipline while also emphasizing the direct application of what students learn. The BSQSIM program emphasizes performance-based education where students acquire the critical knowledge and skills to analyze business practices; create comprehensive plans focused on tangible return on investment, and measure the effectiveness and efficiency of these plans. Since the vast majority of BSQSIM students are working in their field, they are then able to apply what they learn to their workplaces, both immediately and over the lifespan of their careers in ways highly akin to other CCG academic programs.

The skills taught in the BSQSIM program can be applied to improve the efficiency and effectiveness of the operation in a range of organizations and industries, including but not limited to healthcare, finance, manufacturing, military, and government. The BSQSIM provides strong, metrics- and outcomes-based education for entrylevel professionals that resonates well with careers in government and military as well as a wide range of business fields.

A Business Project is incorporated into the Capstone courses. Students will demonstrate tangible learning outcomes predicated on improvements in the effectiveness of systems and efficiency of operations. The Capstone project will work through Lean Six Sigma processes and follow the DMAIC (Define, Measure, Analyze, Improve, Control) process. The Capstone projects are based on the Lean Six Sigma Green Belt (LSSGB) Body of Knowledge (BOK) as defined by the American Society for Quality (ASQ). The Capstone project offers a high-impact, experiential learning opportunity for the students.

## **Program Outcomes**

The Program Learning Outcomes for the BSQSIM program are:

- · Communicate effectively and engage all participants in key projects.
- Operate effectively and contribute to process improvement within team dynamics.
- Define process-based problems and identify opportunities for
- · Identify and collect baseline data with respect to current process performance.
- Analyze current process performance data and determine best
- · Recommend appropriate options for improvement and support the development of pilot solutions and implementation plans.
- Determine performance measures and reviews necessary to monitor/control the improved process.

Program chair: Jay Beirne, MSQSM

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## **Instructional Delivery**

The BSQSIM is an online program. Courses are eight weeks in length, and there are six sessions each year. The BSQSIM is offered in a 100% asynchronous online format, and there is a strong focus on engaging students in a dynamic and interactive online learning format.

Given that CCG students are primarily working adults, the average program completion is five (5) years or thirty (30) eight-week terms.

| BSQSIM General Education 42 credits English |
|---|
| Critical Thinking and Literacy              |
| Arts & Humanities                           |
| Social Science                              |
| Mathematics                                 |
| Communication                               |
| Natural Science                             |

101W. Students should contact their advisor for assistance with scheduling the placement exam prior to enrolling in any MAT courses.

\*Students may elect to take a Math placement exam instead of MAT

Continued

(All courses @ 3 credits except as noted.)



## Continued

# Bachelor of Science in Quality Systems and Improvement Management (BSQSIM)

## Core Curriculum ......42 credits

ACC 201W Accounting I (Prerequisite: MAT 103W)
ACC 202W Accounting II (Prerequisite: ACC 201W)

MGM 201W Principles of Management

MGM 225W Human Resources
MGM 301W Research Methods
MGM 305W Organizational Behavior
MGM 401W Operations Management

MIS 205W Management Information Systems

MKT 210W Principles of Marketing

PJM 210W Introduction to Project Management QSM 210W Quality Systems Management

QSM 345W Performance-Based Management & Benchmarking QSM 475W Introduction to Financial Systems Management

QSM 480W BSQSIM Senior Capstone

## Concentration (required)......36 credits

#### **Business**

MAT 305W Statistics

ECO Choose one Economics course MGM 215W Leadership & Management

MGM 410W Strategic Planning & Decision Making
HRM 250W Effective Workplace Training & Development
INB 320W International Supply Chain & Logistics Management

MGM 415W International Business Management
QSM 408W Special Topics in Quality Management
Electives Choose four business electives

(All courses @ 3 credits except as noted.)

