

The certificate is designed for individuals with an academic background in business, engineering, or production management who work in manufacturing settings and wish to enhance their knowledge of current production and quality management theories and practices. The Marist College School of Management offers the tools you need to gain these essential skills to help you be a more valuable asset to your organization.

### *Produce the Manager in You!*

Applicants to the Advanced Certificate Program must have a bachelor's degree with an undergraduate cumulative GPA of 3.0 or higher and have satisfied the prerequisite course requirements as described below. Permission to take courses as a non-matriculated student in the certificate program does not guarantee full matriculation to the MBA program as a degree-seeking candidate. Non-matriculated students are limited to one advanced certificate.

Credits earned in the certificate program may be applied toward Marist's AACSB-accredited MBA program provided the student applies and is fully admitted to the MBA prior to completing the academic requirements of the certificate. Admission decisions are made by the MBA Program Director and are final. Participants in the certificate programs are subject to the same criteria in maintaining good academic standing as are all students in the MBA program.

### Advanced Certificate in Production Management

Students pursuing the Advanced Certificate in Production Management shall complete all three 600-level graduate courses from the following list. Course descriptions are on the next page.

- MBA 635 Business Analysis for Effective Decision Making\*
- MBA 661 Operational Excellence
- MBA 662 TQM/Design and Management of High Performance Organizations

**PREREQUISITES:** Business Statistics or its equivalent taken at the undergraduate graduate level with an earned grade of B or better OR obtain a score equivalent to a grade of B or better on the DANTES Principles of Statistics or the Regents College Statistics test. Candidate must have fulfilled the prerequisite requirements within the last 10 years. Alternatively, students may complete the appropriate MBA foundation course to satisfy this prerequisite requirement. See the next page for more information.

\*MBA 635 must be taken before MBA 661

Office of Graduate Admissions  
Marist College  
Poughkeepsie, NY 12601  
[www.marist.edu/graduate](http://www.marist.edu/graduate)  
**Phone:** 845.575.3800  
**Fax:** 845.575.3166  
**E-mail:** [graduate@marist.edu](mailto:graduate@marist.edu)

EARNED EXCELLENCE



THE BEST BUSINESS SCHOOLS  
IN THE WORLD

*Produce the Manager in You!*

## **MBA 635 Business Analysis for Effective Decision Making**

This course explores common tools for data analysis and their application to decision making situations. Topics include regression and correlation, forecasting, linear programming, project management, and other selected topics. All models will be taught with attention to managerial applications, including case analyses. Course will include heavy computer usage.

## **MBA 661 Operational Excellence**

This course is designed to provide the student with the concepts and tools necessary to design, manage, and control the transformation process in manufacturing and service settings and to develop systems thinking. The manufacturing philosophies of MRP/ERP, JIT/TQM, TOC/Synchronous Manufacturing, and Supply Chain Management will be explored in depth. Additionally, project management skills will be developed and practiced. These concepts will be applied to case studies and/or business projects.

## **MBA 662 TQM/Design and Management of High Performance Organizations**

Total Quality Management/Design and Management of High Performance Organizations is an introduction to the principles of manufacturing and service quality management. This course exposes the student to a wide range of quality management terms and theories while examining the strategic role of quality in the organization and strategic issues involved in the management of quality. Topics include: Six Sigma, methodologies for identifying and assessing customer requirements, developing customer focus, measuring quality performance, statistical process control, sampling/designing of experiments, reliability analysis, and continuous improvement. As such, this class provides a basis on which to assess, evaluate, and recommend corrective management actions to current or proposed quality initiatives. Focus is on understanding and being able to apply all the concepts throughout an organization.

## **PREREQUISITE COURSE WORK**

Candidates for the Advanced Certificate in Production Management may satisfy the prerequisite course work by taking the following Marist MBA Foundation course.

## **MBA 535 Analytical Tools for Decision Making**

A foundation course in the key statistical methods used to analyze data in support of business decisions. Topics included are: descriptive statistics, continuous and discrete distributions, sampling and inference, comparisons, hypothesis testing, regression, and other more advanced methods selected by the instructor.