

# **GRADUATION REQUIREMENTS, CQAS**

## **ADVANCED CERTIFICATE IN STATISTICAL METHODS FOR PRODUCT AND PROCESS IMPROVEMENT**

### **Purpose**

The purpose of these requirements is two-fold:

1. To specify explicitly the graduation requirements, so as to avoid confusion for students, faculty, and administrators.
2. To discourage a student from taking additional classes for credit when it is clear the student's chance of graduation is slim.

### **Requirements**

1. Completion of 18 credits.
  - a) Nine credits from three three-credit core courses: 0307-801, 802 (Design and Analysis of Experiments I and II), and 841 (Regression Analysis I).
  - b) Nine credits from three three-credit elective courses, chosen from the following list: 803 (Design and Analysis of Experiments III), 831 (Multivariate Applications), 842 (Regression Analysis II), 862 (Reliability Statistics I—a calculus course with integration is a prerequisite), 873 (Time Series Analysis), and 883 (Quality Engineering by Design).
2. Good working knowledge of MINITAB<sup>®</sup>. This is the base statistical package used in many CQAS courses. See [www.minitab.com](http://www.minitab.com) for obtaining MINITAB.
3. Overall program GPA of 3.0 or higher.
4. No more than two grades of C or lower in distinct courses in the program.
5. Institute rules for probation and suspension apply if a student's program GPA falls below 3.0—the student must raise this GPA to at least 3.0 within the next 12 credits of graduate coursework attempted (excluding withdrawals). If this GPA is still under 3.0, the student will be suspended from the program.
6. Completion of course work within seven years. (Exceptions are sometimes granted to this requirement, but the Graduate Council must approve them.)

### **Definition of Program GPA**

“Program GPA” for CQAS is defined to include:

1. Grades for all CQAS courses that were taken prior to matriculation and that are eligible for transfer into the AC program, whether or not the student chooses to use them.
2. Grades for all CQAS courses during and after the quarter of matriculation and that are eligible for transfer into the AC program. This includes all grades, including grades of D and F for courses that the student has taken, even if the student receives permission to retake the course and is assigned a second grade.<sup>1</sup>

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<sup>1</sup> Grades of D or F do not count toward the fulfillment of program requirements (Institute PPM, D5.0,B). A course may be repeated only with the approval of the dean or designee.