

BROOME COMMUNITY COLLEGE
Binghamton, N-Y.

Course Title Senior Practicum SQC 220

Class Lecture Hrs. 1 Laboratory Hrs. 0 Credit Hrs. 3

Division Dean Approval Julie Peacock

Dept. Chairman Approval Mary Woestman DATE 10/2002

Prerequisite: (Last Course or Courses) SQC111 Acceptance Sampling Techniques, SQC 112 Metrology, SQC 113 Statistical Process Control, MAT 245 Design of Experiments. MAT 224 Statistics II.
Co-requisite: SQC 244 Reliability and Life Testing

Learning Objectives of Course:

1. Students will be able to use a computer as a tool for statistical analysis.
2. Students will be able to use the computer to generate reports.
3. Students will be able to function as a member of a working team.
4. Students will be able to participate in team oral presentations.
5. Students will compile team reports.
6. Students will apply problem solving skills and knowledge gained in other quality assurance classes to real world situations.
7. Students will be aware of the contents of ISO 9001.

CATALOG COURSE DESCRIPTION:

SQC 220 SENIOR PRACTICUM

(3)

This course is designed to allow students to integrate their theoretical knowledge with real world situations. Working in teams, students are assigned to case studies involving actual or fictitious data. The course emphasizes computer usage, classroom presentations, and written reports. ISO 9000 Standards and problem solving techniques including Pareto diagrams, process flowcharts, check sheets, brainstorming, cause-and-effect diagrams and multi-voting schemes are discussed.

3 Class Hours

Prerequisite: SQC 111 Acceptance Sampling Techniques, SQC 112 Metrology, SQC 113 Statistical Process Control, , MAT 224 Statistics II. MAT 245 Design of Experiments.

Co-requisite: SQC 244 Reliability and Life Testing

OUTLINE OF CONTENT

OBJECTIVES

1. Team Skills	1. Student will be able to use a computer as a tool for statistical analysis.	
2. Brainstorming		
3. Pareto Diagrams	2. Student will be able to generate reports using the computer.	
4. Cause- and -effect diagrams		
5. Process flowcharts	3. Students will learn to function as a member of a working team	
6. Check Sheets	7. Students will participate in team oral presentation.	Stu
8. Multi-voting Schemes	9. Students will compile team reports	Stu
10. ISO 9001 standards	11. Students will apply problem solving skills and knowledge gained in other quality assurance classes to real world situations.	Stu
12. Team problems and projects	4. Students will be aware of the contents of ISO 9001.	Stu