College of Quality and Engineering Management
Bachelor of Quality Assurance Science
This brochure details the Bachelor of Quality Assurance Science program available through CNU's College of Quality and Engineering Management. For our most up-to-date course listings, please visit us at our website: www.cnuas.edu

California National University for Advanced Studies provides an online learning environment where students receive one-on-one instruction from an esteemed faculty, personalized student service, and the flexibility to achieve their lifelong learning goals while balancing career and family responsibilities.

CNU is nationally accredited by the Accrediting Commission of the Distance Education and Training Council (DETC), Washington, D.C. (www.detc.org, 1601 18th Street, N.W., Washington, D.C. 20009, phone: (202) 234-5100).

All CNU programs are approved for veteran's benefits under the G.I. Bill and Veterans Educational Assistance Program (VEAP). If you are eligible and wish to receive tuition assistance under one of these programs, contact your local VA office or education office to receive an eligibility certificate.

California National University for Advanced Studies is approved to participate in the Voluntary Education Tuition Assistance Program administered by the Defense Activity on Non-Traditional Education Support (DANTES). Active duty military personnel and reservists should contact their education office for more information.

CNU adheres to the standards of the SOC (Servicemembers Opportunity Colleges).
The Bachelor of Quality Assurance Science program is a breadth degree geared to the needs of technical professionals who strive to become leaders in technology-oriented firms. The program provides the individual with the breadth of knowledge required for successful project management, and with the ability to integrate knowledge from diverse disciplines. The degree requirements include core courses, electives, and a culminating experience. Electives may be chosen to focus in one or more of the following areas: Quality Management, Business Systems, and Engineering Systems.

CNU's Online Campus* delivers high quality academic programs with the flexibility and personalized support you need to achieve your education goals without compromising work and family responsibilities. With a computer, internet, and e-mail access, you can participate in your online classroom anytime, from anywhere.

Complete and submit assignments online. Communicate with professors in one-on-one interactions for feedback and support from an expert in the field. Engage with virtual classmates through threaded discussion forums to enrich your learning.

CNU puts you in control of your learning. With no campus visits required and 15-week trimesters starting every Friday, you can study at the time, the place, and the pace that work best for your lifestyle.

* The minimum recommended computer requirements for using CNU’s Online Campus are:

**Platform:**
- PC (Windows 2000 or XP or higher)
- Mac (10.2 or higher)

**Hardware:**
- 128 MB of RAM
- 2 GB of free disk space
- CD ROM and DVD drive
- Sound card with speakers (for courses with multimedia)
- Ethernet or Wireless network card (for high-speed Internet connection)
- or 56K modem (for dial-up Internet connection)
- T1, DSL, Cable, or Satellite high-speed connection
- A monitor capable of at least 800x600 resolution
Bachelor of Quality Assurance Science

The degree programs offered by the College of Quality and Engineering Management are designed to prepare students for rewarding careers in Quality Assurance Science and Engineering Management. Graduates are expected to possess sufficient knowledge to achieve professional certification (e.g., registration with ASQ or PMI) if they choose to do so. Expected outcomes for each degree program are based on guidelines established by the appropriate professional organizations such as the American Society for Quality (ASQ) and Project Management Institute (PMI).

Bachelor of Quality Assurance Science Program Objectives:

The BQAS degree program objective is to prepare the individual to be able to manage, plan, procure, design, and maintain an effective Quality Assurance Program within a company. The curriculum has also been designed to provide the fundamental course work and help prepare the student to sit for many of the American Society for Quality (ASQ) Certification Examinations. The program follows a general-purpose plan that provides flexibility of employment in industries throughout the country.

BQAS Program Learning Outcomes:

1. An ability to develop, operate, and manage quality control systems
2. An ability to acquire and analyze data using appropriate statistical methods to facilitate process analysis and improvement.
3. An ability to apply modern problem solving tools and techniques necessary for quality tracking and improvement.
4. An understanding of quality auditing and principles for meeting domestic and international standards.
5. An ability to manage relations with customers and suppliers.
6. An ability to communicate effectively.

DEGREE PROGRAM REQUIREMENTS

A High School Diploma or GED equivalent is required for admission. Applicants to the Bachelor of Quality Assurance Science degree program are expected to have a high school background in algebra, plane geometry, trigonometry, physics, and chemistry. If an applicant lacks this background, prerequisite courses will be assigned from the CNU curriculum.

The Bachelor of Quality Assurance Science degree program requires satisfactory completion of 121 units of academic work with a cumulative GPA of 2.0 or better in the following areas:

GENERAL EDUCATION

General Education
30 units (lower division)

Basic Sciences
22 units (lower division)

Foundations of Quality Management
12 units (lower division)

Quality Assurance Techniques
30 units (upper division)

Quality Assurance Electives
24 units (upper division)

Capstone Project
3 units (upper division)

Courses will be offered in a systematic manner, i.e., where applicable, prerequisites must be completed before the student can enroll in subsequent higher-level offerings.
GENERAL EDUCATION

30 UNITS (LOWER DIVISION)

Students pursuing a Bachelor of Quality Assurance Science degree must complete a breadth requirement of 30 General Education units. Students may elect to take the College-Level Examination Program (CLEP) exams to meet this requirement instead of or in combination with courses. Credit given for General Education courses taken through CLEP exams is based on passing scores as determined according to the range of acceptable scores established by the American Council on Education (ACE).

1. Communications (written/oral)
2. Computation (quantitative reasoning/concepts)
3. Social Science (history, sociology, economics, and politics)
4. Computer Technology and Practice
5. Humanities (literature, philosophy, language, culture, the arts)
6. Life/Physical Sciences

BASIC SCIENCES

22 UNITS (LOWER DIVISION)

The Bachelor of Quality Assurance Science requires a strong foundation in mathematics and science. Applicants needing additional preparation in mathematics prior to taking Calculus I will be assigned prerequisite courses from CNU’s curriculum and/or placement exams.

UPPER DIVISION REQUIRED CORE OF QUALITY ASSURANCE TECHNIQUES

(30 UNITS)

The Upper Division Required Core courses expand and develop on the foundational body of knowledge provided in the Lower Division Required Core. They provide a more in-depth study of various Quality Management approaches, including the philosophies, processes, standards, stakeholders, statistical methods, and problem solving techniques.

QUALITY ASSURANCE ELECTIVES

(SELECT 24 UNITS)

Students pursuing a Bachelor of Quality Assurance Science degree may select up to 3 units of 200-level and the rest of the units from 300/400-level from a list of nineteen courses after they have completed the prescribed core of General Education, Basic Sciences, Lower and Upper Division courses. Selection of electives will be done with the advice and approval of a faculty advisor. Elective courses provide opportunities for student to broaden the knowledge learned in the core courses in an area of interest or specialization that are helpful to their careers. Students should seek a group of courses forming a cohesive area of concentration.

CAPSTONE PROJECT

3 UNITS (UPPER DIVISION)

A Capstone Project is required which entails an approved proposal on a subject relevant and current to Quality Assurance Science. The project report will be evaluated in terms of the relevance and high quality of the final product. The expectation is that the Capstone Project will entail one trimester of work requiring 4 hours of practicum each week for 15 weeks.
Course Listing

GENERAL EDUCATION (30 UNITS)
Advisement for General Education courses is offered on an individual basis.

BASIC SCIENCES (22 UNITS)
MATH 165 General Mathematics (3 units)
BSCI 100A Algebra I (3 units)
BSCI 100B Algebra II (3 units)
BSCI 100C Pre-Calculus (3 units)
BSCI 101 Calculus I (3 units)
BSCI 105 Probability and Statistics (3 units)

SELECT ONE
BSCI 206 Physics I (Mechanics) (4 units: 3 guided instruction/1 lab)
BSCI 208 Chemistry I (4 units: 3 guided instruction/1 lab)

LOWER DIVISION REQUIRED CORE
FOUNDATIONS OF QUALITY MANAGEMENT (12 UNITS)
QAS 201 Total Quality Management (3 units)
QAS 202 Quality Control (3 units)
QAS 204 Fundamentals of Statistical Process Control (3 units)
QAS 208 The Economics of Quality (3 units)

UPPER DIVISION REQUIRED
CORE OF QUALITY ASSURANCE TECHNIQUES (30 UNITS)
QAS 305 Baldridge Organizational Excellence Systems (3 units)
QAS 308 Quality Problem Solving (3 units)
QAS 310 Quality Engineering (3 units)
QAS 320 Quality Auditing (3 units)
QAS 330 Quality Planning (3 units)
QAS 350 Customer Relationship and Satisfaction (3 units)
QAS 440 ISO Quality Systems (3 units)
QAS 460 Process Control and Capability (3 units)
QAS 470 Statistical Process Control Methods and Applications (3 units)
QAS 480 Six Sigma Methods (3 units)

QUALITY ASSURANCE ELECTIVES
(SELECT 24 UNITS)
Select 3 units from 200 level and 21 units from 300–400 level with approval of faculty advisor and/or Dean.

BCOM 301 Introduction to Business Communications (3 units)
FIN 306 Introduction to Managerial Finance (3 units)
HCM 320 Analysis and Evaluation of Healthcare Services (3 units)
HRM 303 Fundamentals of Human Behavior in Organizations (3 units)
HRM 305 Key Factors of Human Resources Management (3 units)
MGT 301 Management Theory and Practice (3 units)
MGT 420 Production and Operations Management (3 units)
MGT 422 Introduction to Project Management (3 units)
MSCI 285 Introduction to Business Statistics (3 units)
MSCI 301 Introduction to Management Science (3 units)
MSCI 386 Fundamentals of Quantitative Analysis (3 units)
QAS 203 Inspection and Metrology (3 units)
QAS 206 Blueprint Reading (3 units)
QAS 207 Software Quality Assurance (3 units)
QAS 209 Supplier Quality Management (3 units)
QAS 340 Taguchi Methods (3 units)
QAS 410 Reliability Methods (3 units)
QAS 420 Geometric Dimensioning and Tolerancing (3 units)
QAS 430 Experimental Design (3 units)

REQUIRED (3 UNITS)
QAS 499 Capstone Project (3 units)
Admissions Checklist
(PURPLE INDICATES REQUIRED)

☑ Completed Application
☑ Application Fee
☑ Admissions Essay
☑ Resume

INSTITUTIONAL
☑ Transcripts
   (all postsecondary schools attended)
☑ Tuition Assistance Forms
   (if applicable)
☑ Diplomas
☑ Test Scores
   (CLEP, PEP, DANTES, SAT, ACT, GRE, etc.)

EXPERIENTIAL
☑ Professional Licenses/Certifications
☑ Certificates of Completion
☑ Patents/Projects
☑ Honors/Awards

OTHER
☑ Workplace Supervisor's Evaluation
☑ Letters of Recommendation
☑ Articles/Publicity

DEGREE PROGRAM

COLLEGE OF QUALITY AND ENGINEERING MANAGEMENT

BACHELOR OF QUALITY ASSURANCE SCIENCE

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<tr>
<th>U.S. &amp; CANADIAN RESIDENTS</th>
<th>NON U.S. &amp; NON CANADIAN RESIDENTS</th>
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<td>$300 PER UNIT</td>
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MASTER OF ENGINEERING MANAGEMENT

$330 PER UNIT

GO TO WWW.CNUAS.EDU TO APPLY ONLINE
FOR FURTHER INQUIRIES OR COMMENTS, E-MAIL: cnuadms@mail.cnuas.edu