PREPARE TODAY FOR TOMORROW’S TECHNOLOGY
Career opportunities in technology continue to grow as the field expands and adapts to the ever-changing shape of the world.

Technology plays a large role in our everyday lives, and as organizations continue to adopt increasingly sophisticated technologies, those with technical expertise will have many more career options available to them. According to the Bureau of Labor Statistics, information technology managers, computer scientists, database administrators, systems analysts, and software engineers are expected to be among the pace setters for job growth through at least 2016.

The area of homeland security and safety is also experiencing exponential growth as private and public sector organizations in the U.S. and abroad recognize the need for modern security in a changing world. Along with the seemingly limitless number of job opportunities, other areas of engineering like wireless communications are also booming. Use of wireless technologies and devices by individuals and businesses continues to expand rapidly, resulting in the need for qualified wireless communications engineers.

THE SCHOOL OF ENGINEERING AND TECHNOLOGY

Students learn best when hands-on learning meets theory, and the School of Engineering and Technology strives to achieve this objective in all of its programs. Hands-on learning using state-of-the-art tools and online training simulations are critical to technology and engineering students, so the School incorporates these facets into its diverse programs. Students are exposed to new software applications as well as current technologies.

Our faculty members not only hold graduate degrees from prestigious institutions, they also bring years of industry experience into the classroom from organizations such as Northrop Grumman, IBM, and Qualcomm. This means that students gain real-world knowledge backed by sound theory that is applicable now and for years to come.
UNDERGRADUATE PROGRAMS

BACHELOR OF SCIENCE IN COMPUTER SCIENCE †
Degree requirements include courses in object-oriented programming, data structures and algorithms, operating systems, computer communication networks, software engineering, and computer architecture, as well as mathematics, statistics, and the natural sciences. Computer science degrees remain in consistently strong demand, and offer a variety of exciting options, including software development, programming languages, algorithm design, robotics, and artificial intelligence, to name just a few. This degree opens employment doors in industry, government, commerce, and education.

BACHELOR OF SCIENCE IN CONSTRUCTION ENGINEERING TECHNOLOGY †
In this program, you will get a well-rounded education in construction principles and practices in preparation for a career in the construction industry. The degree prepares students for careers such as construction superintendent, field engineer, project manager, project coordinator, facilities engineer, cost estimator, CAD drafter, and quality and safety controller. Additionally, graduates of this program with experience, interest, and/or knowledge about specific construction trades will be capable of performing in a large number of positions within those respective subcontracting firms.

THE SCHOOL OF ENGINEERING AND TECHNOLOGY OFFERS A VARIETY OF CURRENT ONSITE AND ONLINE PROGRAMS THAT WILL PREPARE YOU FOR TOMORROW’S TECHNOLOGY-DRIVEN WORKFORCE.
BACHELOR OF SCIENCE IN CONSTRUCTION MANAGEMENT

This degree program prepares the student for careers such as construction executive, project manager, project engineer/ coordinator, field engineer, planning engineer, cost engineer, cost estimator, quality and safety controller, construction superintendent, CAD drafter, and facilities engineer. Graduates with experience, interest, and/or knowledge about specific construction trades will be capable of performing in a large number of management and administrative positions within respective subcontracting companies, including trades such as carpentry, excavation, concrete work, plumbing, structural steel, cabinetry, roofing, insulation, drywall, electrical, HVAC, and landscaping.

BACHELOR OF SCIENCE IN INFORMATION SYSTEMS †

This degree is for those students who seek to gain specialized knowledge in the field of information systems. There is great demand in the corporate world (including nonprofit organizations) for people who can integrate all elements of the enterprise into a comprehensive network of responsive, proactive information delivery systems. Information systems have become increasingly important in industries such as manufacturing, retail, finance, and healthcare.

Course study includes data communications, systems analysis, system development, database administration, project management, computer forensics, health information management, and quality/ information assurance.

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY MANAGEMENT †

There is an increasing demand for technology expertise in consulting, marketing and sales support, customer services and support, information and library science, and general management. This degree prepares the graduate to understand basic information technology management concepts and practical technology skills.

Challenging courses combine class lectures, case studies, and hands-on exercises with individual and team projects and presentations, helping students prepare for industry standard certificates in wireless administration and security and/or CISSP management and security.

Graduates are prepared for positions in information desktop management and administration, database management systems development, administration and support, and network management and support.

BACHELOR OF SCIENCE IN MANUFACTURING DESIGN ENGINEERING

Pursue this degree to get the theoretical foundations, hands-on experience, and teaming skills required for effective conceptual, logistical, developmental, and interdisciplinary design of complex engineering devices, product life cycles, and engineering systems through integration of state-of-the-art computer-aided tools, concurrent engineering standards, and simulation modeling techniques. Students completing this degree will be prepared to hold positions such as manufacturing system design engineer, design supervisor for engineering projects, and product design engineer.

† DENOTES PROGRAM OFFERED COMPLETELY ONLINE.
GRADUATE PROGRAMS

MASTER OF SCIENCE IN COMPUTER SCIENCE ♦

Learn the aspects of solving complex computing and software development problems while developing essential communication skills. Graduates of this program also learn “people skills,” ethics, and standards of professionalism.

Specializations in advanced computing, database engineering, or software engineering are all augmented by an understanding of computational models and logical problem solving skills. Graduates are well positioned to become highly productive members of real world computing teams.

MASTER OF SCIENCE IN ENGINEERING MANAGEMENT ♦

This degree is designed to bring the benefits of modern management techniques to engineers, scientists, and technologists interested in furthering their skills in engineering management.

Specializations such as project management, systems engineering, technology management, and others offer practical business perspectives necessary for engineering management. Unlike traditional MBA programs, this program combines management skills with the student’s technical background and experience. Unique management concepts and technical knowledge prepare graduates to direct technical organizations in today’s increasingly competitive business world.

MASTER OF SCIENCE IN ENVIRONMENTAL ENGINEERING

Environmental engineers are responsible for safe drinking water, treating and disposing of wastes, maintaining air quality, controlling water pollution, and remediating contaminated sites. They develop new and improved means to protect the environment, and are employed by...
many industries: engineering consulting firms; industries that need to comply with pollution emission and discharge regulation; private and municipal agencies that supply drinking water and treat and dispose of waste; government agencies that monitor and regulate waste discharges and air emissions; laboratories; universities that conduct environmental research; international agencies that transfer knowledge to developing countries; and public-interest groups that advocate environmental protection.

**MASTER OF SCIENCE IN HOMELAND SECURITY AND SAFETY ENGINEERING †**

This master’s degree represents an interdisciplinary area that brings together fields of engineering, science, and management from the most traditional to the most technologically advanced and novel. The curriculum emphasizes the fundamentals and practices that define the theory and effective practice of asset and people protection, and provides the focus for the Homeland Security and Safety Engineering degree. The program is designed so that students who successfully complete it are academically trained to appear for Certified Safety Professional (CSP) certification administered by the Board of Certified Safety Professionals, for the American Society of Industrial Security (ASIS) Certified Protection Professional (CPP) exam, and for several FEMA certifications.

**MASTER OF SCIENCE IN INFORMATION SYSTEMS †**

This degree provides students with the requisite management, business, strategic, and technical skills needed to help them apply information systems technology efficiently and effectively. The program’s objective is to provide education and career development foundations, including: oral, written, and presentation skills; technical skills; people and business skills; and ethics and professionalism, which are integrated throughout its individual courses. The curriculum is designed as a set of interrelated building blocks consisting of foundations, core, integration, and career tracks.

**MASTER OF SCIENCE IN WIRELESS COMMUNICATIONS**

A professional degree that integrates communication techniques, problem solving strategies, simulation skills, and mathematical foundations with the hands-on training required to solve real world problems in telecommunications. It is designed for professionals and managers who need to facilitate the learning and application of skills in the field of wireless communications.

This program uses a distinctive and challenging curriculum that emphasizes multidisciplinary knowledge and integrates theory through applications and design concepts. Classes combine lectures, case and hands-on studies, individual and team projects, research papers, and participant presentations.

**MASTER OF SCIENCE IN SUSTAINABILITY MANAGEMENT**

Starting within the last decade, a movement began inside business to change the way companies operate. Organizations are eliminating things such as hazardous chemicals as well as the entire concept of waste. To meet new challenges, many corporations, cities, states, and countries are introducing new policies and programs with an emphasis on pollution control and sustainable practices. This master’s degree provides methods and theory appropriate to the study of sustainability by exploring the concepts of sustainability and systems approaches across disciplines.

† DENOTES PROGRAM OFFERED COMPLETELY ONLINE.
CERTIFICATE PROGRAMS

CISCO CERTIFIED NETWORK ASSOCIATION (CCNA)

The Cisco CCNA® Exploration provides a comprehensive overview of networking, from fundamentals to advanced applications and services. This certificate emphasizes theoretical concepts and practical application, while providing opportunities for students to gain the skills and hands-on experience needed to design, install, operate, and maintain networks.

CONSTRUCTION CONTRACT ADMINISTRATION

This certificate program prepares you to take the Construction Specifications Institute certification exam as a Certified Construction Contract Administrator. Courses in the program develop competency in engineering graphics, plans, specifications, estimating, scheduling, control, materials and methods, the construction process cycle, construction documents, procurement, work execution, facilities management, project inception and closeout, delivery, design, inspections, quality, measurement, payment, claims, and disputes.

ACCORDING TO THE BUREAU OF LABOR STATISTICS, COMPUTER SCIENTISTS, DATABASE ADMINISTRATORS, SYSTEMS ANALYSTS, AND SOFTWARE ENGINEERS ARE EXPECTED TO BE AMONG THE PACESETTERS FOR JOB GROWTH THROUGH 2016.
CONSTRUCTION DOCUMENT TECHNOLOGY

If you’re interested in understanding construction documents and the process flow of construction documentation through the life-cycle of construction projects, then this program is for you. This certificate prepares you to take the Construction Specifications Institute certification exam as a Construction Document Technologist.

CONSTRUCTION SAFETY AND INSPECTION

The Construction Safety and Inspection certificate is for individuals who have significant field experience, but also desire knowledge of management skills to perform field implementation of safety and quality through competent inspections. Courses provide knowledge in electrical and construction systems, plans and project scheduling, estimating and control, inspection procedures and techniques, and management principles.

CONSTRUCTION SPECIFICATIONS

In the Construction Specifications Certificate program students develop competency in engineering graphics, plans, specifications, estimating, scheduling, control, materials and methods, the construction process cycle, construction documents, procurement, facilities management, and project inception, delivery and design. The program is aligned with the requirements of the Construction Specifications Institute’s recommendations and manual of practice. Coursework prepares you to take the certification exam as a Certified Construction Specifier.

ELECTRICAL SYSTEMS COST ESTIMATING

By earning the Electrical Systems Estimating certificate you can obtain the skills necessary for construction cost estimating with a specialization in electrical systems. This certificate is specially focused for individuals with significant field experience, but lacking cost estimating skills and academic preparation, wishing to perform construction cost estimating for electrical systems.

† DENOTES PROGRAM OFFERED COMPLETELY ONLINE.
CERTIFICATE PROGRAMS CONTINUED

INFORMATION TECHNOLOGY MANAGEMENT

This certificate offers students interested in technology-related careers the opportunity to develop the professional expertise to apply and manage technology in a variety of situations. With this certificate, you can pursue careers in fields such as marketing, information management, customer service, data management, and sales.

MECHANICAL SYSTEMS COST ESTIMATING

This certificate is specially focused for individuals who have significant field experience, but lack cost estimating skills and academic preparation and wish to perform construction cost estimating for mechanical systems. Courses help students develop competency in the areas of electrical and construction systems, plans and specifications, project control, scheduling, estimating, bidding, control, economics, management, and accounting.

GRADUATE CERTIFICATE IN LEAN SIX SIGMA (GREEN BELT AND BLACK BELT)

This Green Belt and Black Belt certification program offers an overview of the Lean Six Sigma concepts and tools including Lean Six Sigma deployment practices, project development, and the DMAIC, DMALC, and DFLSS problem-solving approach.

GRADUATE CERTIFICATE IN PROJECT MANAGEMENT

Talented and knowledgeable project managers command the best assignments, salaries, bonuses, and other compensation. The Project Management Certificate provides training to students pursuing a project management certification offered by Project Management Institute.

GRADUATE CERTIFICATE IN SECURITY AND SAFETY ENGINEERING

The graduate-level Security and Safety Engineering certificate prepares students for positions in several areas of security and safety engineering. You’ll gain the academic preparation needed to appear for Certified Safety Professional certification administered by the American Society of Safety Engineers’ and the American Society of Industrial Security’s Certified Protection Professional exam.

GRADUATE CERTIFICATE IN SUPPLY CHAIN MANAGEMENT AND eLOGISTICS

There has been growing recognition in recent years that supply chain management and eLogistics help achieve the twin goals of cost reduction and service enhancement. This certificate provides comprehensive academic training on best practices in a dynamic and increasingly global economic business environment.
YOU WILL GAIN REAL-WORLD KNOWLEDGE BASED ON SOUND THEORY THAT IS APPLICABLE NOW AND FOR YEARS TO COME.
SCHOOL OF ENGINEERING AND TECHNOLOGY

UNDERGRADUATE DEGREES
BACHELOR OF SCIENCE WITH MAJORS IN:
Computer Science †
Construction Engineering Technology †
Construction Management
Manufacturing Design Engineering
Information Systems †
Information Technology Management †

THE AREA OF HOMELAND SECURITY AND SAFETY IS EXPERIENCING EXPONENTIAL GROWTH IN THE PRIVATE AND PUBLIC SECTORS IN THE U.S. AND ABROAD.
GRADUATE DEGREES
MASTER OF SCIENCE WITH FIELDS OF STUDY IN:
Computer Science †
Engineering Management †
Environmental Engineering
Homeland Security and Safety Engineering †
Information Systems †
Sustainability Management
Wireless Communications

CERTIFICATE PROGRAMS
Cisco Certified Network Association (CCNA)
Construction Contract Administration
Construction Document Technology
Construction Management
Construction Safety and Inspection
Construction Specifications
Electrical Systems Cost Estimating
Information Technology Management
Mechanical Systems Cost Estimating
Graduate Certificate in Lean Six Sigma
Graduate Certificate in Project Management
Graduate Certificate in Security and Safety Engineering
Graduate Certificate in Supply Chain Management and eLogistics

NOTE: Not all courses or programs listed in this catalog are available at every campus.

† DENOTES PROGRAM OFFERED COMPLETELY ONLINE.

TAKE THE FIRST STEP!
ADMISSION TO NATIONAL UNIVERSITY IS SIMPLE. TO SPEAK WITH YOUR OWN PERSONAL ADVISOR, CALL US TODAY AT 1.800.NAT.UNIV, OR VISIT OUR WEBSITE AT WWW.NU.EDU TO APPLY ONLINE.
YOU DECIDE WHERE TO GO. WE’LL HELP YOU GET THERE.

At National University, we’ve simplified the admissions process because we know our students demand accessibility. Our evening-focused, accelerated format means earning your associate’s, bachelor’s, or master’s degree won’t interfere with your personal or professional obligations.

We make attending your classes simple while maintaining high quality degree offerings. National infuses quality into all of its programs, from business to information technology to psychology and education. Our curriculum combines concept, theory, and application so that what you learn in the classroom is relevant to the workplace.

OUR REPUTATION SPEAKS FOR ITSELF

The second-largest nonprofit, private institution of higher learning in California, National provides more master’s degrees in education to minority students than any other college or university in California. National University also ranks in the Top 10 nationally in granting master’s degrees to women.

EARN YOUR DEGREE ON YOUR SCHEDULE

Because National has 26 campuses throughout California and one in Nevada, there’s probably a location near your work or home. You can also find program information, talk with a counselor to create an education plan to meet your goals, and learn about financial aid options at National University.
THE UNIVERSITY OF VALUES
Our University is dedicated to educational access and academic excellence, and provides challenging and relevant programs that are learner-centered, success-oriented, and responsive to technology. National University is anchored by the core values of quality, access, relevance, accelerated pace, affordability, and community.

ACCREDITATIONS AND APPROVALS:
- Accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges (WASC)
- Approved by the Commission on Teacher Credentialing (CTC)
- Approved by the Commission on Collegiate Nursing Education (CCNE)
- Accredited by the California Board of Registered Nursing (BRN)
- Approved by the Nevada Department of Education (NDE)
- Approved by the Nevada State Board of Education/Nevada State Board for Career and Technical Education
- Approved as meeting the requirements mandated by the Board of Examiners for the State of Nevada
- Provisionally approved by the Nevada State Board of Nursing (NSBN)
- Accredited by the International Assembly for Collegiate Business Education (IACBE)

LEARNING RESOURCES AT YOUR FINGERTIPS
National University provides you with modern technology in its classrooms, onsite labs, and beyond. You can access your grades, class schedules, and financial aid information from your online student portal. The National University Library System offers numerous services to help you complete your coursework and contains one of the larger e-book collections in the U.S.

When you need answers or assistance, Student Concierge Services is your one-stop center. Advocates are trained in a range of areas such as financial aid, credentials, admissions, and graduation. They can be reached by phone and e-mail 24 hours a day, seven days a week.

A HISTORY OF LIFELONG LEARNING
Since 1971, National University has been dedicated to making lifelong learning opportunities accessible, challenging, and relevant to a diverse student population. National’s academic and administrative headquarters are located in La Jolla, California.

FUNDING YOUR EDUCATION
Financial aid advisors can help you navigate the financial aid process so you can find a way to pay for school. Funding may also be available in the form of state and federal grants, scholarships, loans, or tuition reimbursement.

Call our toll-free number and a personal advisor will help you meet your individual educational goals. Call 1.800.NAT.UNIV or visit www.nu.edu for details or to apply online.

You can also find us on: