

The NC Aerospace Initiative connects a variety of enterprises in the aerospace sector that are working to promote the industry's growth. The NCAI is a coalition of aerospace interests that have come together to align these enterprises and to act as a clearinghouse for all things aerospace. This resource guide is a product of the NCAI initiative.



Universities & Colleges

Aviation and Aerospace Related Training Undergraduate and Graduate Degree Programs (Statewide)

Aviation and Aerospace Disciplines

Aeronautics

Program Description

Aeronautics curriculum is closely mapped to the needs and demands of the aviation/aerospace industry and to general education guidelines.

Embry-Riddle Aeronautical University- Worldwide

Guilford Technical Community

College

260 N. Regional Road
c/o GTCC Aviation Center
Greensboro, NC 27409
336-665-9401

Greensboro@erau.edu

<http://worldwide.erau.edu/locations/greensboro>

Elizabeth City

U.S. Coast Guard Station
1664 Weeksville Rd., Building 45
Elizabeth City, NC 27909
252-331-2225

ElizabethCity@erau.edu

<http://worldwide.erau.edu/locations/elizabeth-city>

Associate in Science (AS)
Bachelor of Science (BS)
Master of Science (MS) and
Doctor of Philosophy (PhD)

PhD: Embry-Riddle offers this program primarily online with the inclusion of three six-day residencies at designated campuses. This way, you can continue working while you get your degree.

Modes of Instruction:

Classroom
Online
EagleVision Home
Blended Program

Fort Bragg

Soldier Development Center, Building 2-1728,
Room 320,
231 Armistead Street
Fort Bragg, NC 28307
910-339-1567

FortBragg@erau.edu

<http://worldwide.erau.edu/locations/fort-bragg>

Seymour Johnson

1520 Goodson Street
Seymour Johnson AFB, NC 27531
919-734-9211

SeymourJohnson@erau.edu

<http://worldwide.erau.edu/locations/seymour-johnson>

Aviation Business Administration

Program Description

The Bachelor of Science in Aviation Business Administration explores all facets of business administration and management, including: Economics, Aeronautical Science, Business Statistics & Accounting, Business Marketing & Management and International Business.

**Embry-Riddle Aeronautical University-
Worldwide**

Associate in Science (AS)
Bachelor of Science (BS)

Elizabeth City

U.S. Coast Guard Station
1664 Weeksville Rd., Building 45
Elizabeth City, NC 27909
252-331-2225

ElizabethCity@erau.edu

<http://worldwide.erau.edu/locations/elizabeth-city>

Modes of Instruction:

Classroom
Online
EagleVision Home
EagleVision Classroom

Aviation Maintenance

Program Description

In addition to gaining critical skills needed to succeed in an aviation maintenance career, students will specialize in one of two maintenance functions: Management or Safety.

**Embry-Riddle Aeronautical University-
Worldwide**

Associate in Science (AS)
Bachelor of Science (BS)

Guilford Technical Community College

260 N. Regional Road
c/o GTCC Aviation Center
Greensboro, NC 27409
336-665-9401

Greensboro@erau.edu

<http://worldwide.erau.edu/locations/greensboro>

If you hold an FAA Airframe & Powerplant Maintenance Certificate, you are awarded 24 credit hours toward the associate degree or 30 credit hours toward the bachelor's degree. Students may also earn maintenance credit as part of the overall curriculum.

Elizabeth City

U.S. Coast Guard Station
1664 Weeksville Rd., Building 45
Elizabeth City, NC 27909
252-331-2225

ElizabethCity@erau.edu

<http://worldwide.erau.edu/locations/elizabeth-city>

Fort Bragg

Soldier Development Center, Building 2-1728,
Room 320,
231 Armistead Street
Fort Bragg, NC 28307
910-339-1567

FortBragg@erau.edu

<http://worldwide.erau.edu/locations/fort-bragg>

PhD: Embry-Riddle offers this program primarily online with the inclusion of three six-day residencies at designated campuses. This way, you can continue working while you get your degree.

Modes of Instruction:

Classroom
Online
EagleVision Home
Blended Program

Aviation Science

Program Description

The aviation programs at Elizabeth City State University offer students a comprehensive education in their chosen aviation area of study. Moreover, the curriculum offers general education and liberal arts courses that are intended to help students to broaden their perspectives about themselves and their careers while, at the same time, giving them the knowledge and confidence to be successful in the competitive fields of aviation and aerospace.

Elizabeth City State University

1704 Weeksville Road
Elizabeth City, NC 2790

Contact:

Kuldeep Rawat
Associate Professor/Director of Aviation
Science
252-335-3846

ksrawat@mail.ecsu.edu

www.ecsu.edu/academics/mathsciencetechnology/technology/aviation

Bachelor of Science in Aviation Science

Minors Available

Aviation Management

Computer Science

Electronics

Avionics

Flight Education

Public Administration

Space Science

Air Traffic Control (to be proposed)

Technical Management

Program Description

Students in the Technical Management degree program learn to apply management skills to their technical specialty and have the opportunity to focus in one of the six areas of specialization: Engineering Sciences, Information Security, Logistics, Management of Information Systems, Occupational Safety & Health and Project Management.

Embry-Riddle Aeronautical University-Worldwide**Guilford Technical Community College**

260 N. Regional Road
c/o GTCC Aviation Center
Greensboro, NC 27409
336-665-9401

Greensboro@erau.edu

<http://worldwide.erau.edu/locations/greensboro>

Associate in Science (AS)

Bachelor of Science (BS)

Master of Science (MS) and

Doctor of Philosophy (PhD)

PhD: Embry-Riddle offers this program primarily online with the inclusion of three six-day residencies at designated campuses. This way, you can continue working while you get your degree.

Elizabeth City

U.S. Coast Guard Station
1664 Weeksville Rd., Building 45
Elizabeth City, NC 27909
252-331-2225

ElizabethCity@erau.edu

<http://worldwide.erau.edu/locations/elizabeth-city>

Modes of Instruction:

Classroom

Online

EagleVision Home

Blended Program

Fort Bragg

Soldier Development Center, Building 2-1728,
Room 320,
231 Armistead Street
Fort Bragg, NC 28307
910-339-1567

FortBragg@erau.edu

<http://worldwide.erau.edu/locations/fort-bragg>

Seymour Johnson

1520 Goodson Street
Seymour Johnson AFB, NC 27531
919-734-9211

SeymourJohnson@erau.edu

<http://worldwide.erau.edu/locations/seymour-johnson>

Engineering Disciplines

Aerospace Engineering

Program Description

The Aerospace Engineering degree program prepares its graduates for careers in aircraft and space systems design, analysis and manufacturing.

North Carolina State University

Department of Mechanical & Aerospace
Engineering
Engineering Bldg 3, Campus Box 7910
911 Oval Drive
Raleigh, NC 27695-7910

Contact:

Dr. Richard Gould
R J Reynolds Professor & Department Head
919-515-2368

gould@eos.ncsu.edu

www.mae.ncsu.edu

Bachelor of Science (BS)
Master of Science (MS) and
Doctor of Philosophy (PhD)

Mechanical Engineering (ME)
Aerospace Engineering (AE).

Accelerated BS/MS and direct path to
PhD options in both ME and AE.

Graduation in May and December

Civil Engineering

Program Description

Programs focus on building durable infrastructure to support communities with safe and efficient energy, shelter and transportation. Students learn how to plan, design, construct, operate and maintain public infrastructures.

Duke University

Pratt School of Engineering
305 Teer Engineering Bldg.
Box 90271
Durham, NC 27708-0271

Contact:

Tom Katsouleas
Professor and Vinik Dean of Engineering
919-660-5389

tom.katsouleas@duke.edu

www.cee.duke.edu

Bachelor of Science (BS)
Master of Science (MS) and
Doctor of Philosophy (PhD)
Certificate in Aerospace Engineering

The 4+1 program offers students with enough credits to begin taking graduate courses towards a master's degree during senior year. Master of Engineering, Master of Science or Master of Engineering Management.

North Carolina A&T University

1601 East Market Street
Greensboro, NC 27411

Contact:

Sameer A. Hamoush, Ph.D., P.E.
Chairman, Civil, Architectural and Environmental
Engineering Department
336-285-3677

sameer@ncat.edu

www.ncat.edu/academics/schools-colleges1/coe/caee

Bachelor of Science (BS)
Master of Science (MS)

Civil and Architectural Engineering
Dual degrees possible in Architectural and Civil Engineering. Masters Degree offers three majors: Building Energy; Civil Infrastructures; and Environmental / Water Resources

North Carolina State University

Department of Civil, Construction, and
Environmental Engineering- College of
Engineering
409 Mann Hall
Campus Box 7908
Raleigh, NC 27695-7908

Contact:

Dr. Paul Khosla
Director, CTES and TMRC/Professor
919-515-7835

khosla@eos.ncsu.edu

www.ce.ncsu.edu

Bachelor of Science (BS)
Master of Science (MS)
Seven graduate programs: computing & systems, construction engineering and management, water resources and environmental engineering, structural engineering and mechanics, transportation systems and materials, and geotechnical/geoenvironmental engineering.

Graduation in May and December

University of North Carolina at Charlotte

9201 University City Boulevard
Charlotte, NC 28223-0001

Contact:

Anthony (Tony) Brizendine, Ph.D. ,PE, PLS.
Professor, Department Chairman
704-687-5050

albrizen@uncc.edu

<http://cee.uncc.edu>

Bachelor of Science (BS)
Master of Science (MS) and
Doctor of Philosophy (PhD)

Offers three graduate degrees: Master of Science in Civil Engineering or Engineering and PhD in Infrastructure and Environmental Systems.

Computational Science and Engineering

Program Description

Computational technology is a crucial methodology for all sciences, even those that are not traditionally computationally-intensive (such as the humanities and social sciences). Graduates will acquire a wide range of computational skills that will allow them to solve large-scale data-intensive and real-life problems.

North Carolina A&T State University

Electrical and Computer Engineering
1601 E. Market Street
Greensboro, NC 27411

Contact:

Dr. Marwan Bikdash
Professor and Director
Computational Science and Engineering
336-334-7437

bikdash@ncat.edu

www.ncat.edu/academics/schools-colleges1/coe/cse

Master of Science (MS) and
Doctor of Philosophy (PhD)

CSE in an interdisciplinary graduate program offering M.S. and Ph.D. degrees in Computational Science and Engineering.

Computer Engineering

Program Description

Programs focus not on just how computer systems are engineered or built but how they can be applied to address societal needs. Students receive instruction and research in areas such as: power systems, optoelectronics, digital systems, VLSI design, data communications and networking, automatic control systems, electronics, embedded systems, microelectronics, power electronics, robotics, nanotechnology, and biomedical engineering.

North Carolina A&T State University

Electrical and Computer Engineering
1601 E. Market Street
Greensboro, NC 27411

Contact:

John C. Kelly, Ph.D.
Chairman, Electrical and Computer Engineering
Department
336-334-7760, ext. 210

jck@ncat.edu

www.ncat.edu/academics/schools-colleges1/coe/elen

Bachelor of Science (BS)

Computer Engineering
Electrical Engineering

Master of Science (MS) and Doctor of
Philosophy (PhD) are available in
Electrical Engineering.

University of North Carolina at Charlotte

The William States Lee College of Engineering
Electrical and Computer Engineering
9201 University City Boulevard
Charlotte, NC 28223-0001

Contact:

Dr. Ian Ferguson, Ph.D.
Professor and Department Chairman
704-687-8404

ianf@uncc.edu

<http://ece.uncc.edu>

Bachelor of Science (BS)

Electrical and Computer Engineering

Program Description

The Program emphasizes analytical thinking, problem solving, and technology, and each fosters the development of ethical leadership, communication, and teamwork skills. Students have five areas of concentration to choose: Computer Engineering and Digital Systems; Signal Processing, Communications, and Control Systems; Solid-State Devices and Integrated Circuits; Electromagnetic Fields; Photonics.

Duke University

129 Hudson Hall
Box 90291
Durham NC 27708

Contact:

Lawrence Carin
Chair, Professor of Electrical and Computer
Engineering
(919) 660-5270
lcarin@ee.duke.edu
www.ece.duke.edu

Bachelor of Science (BS)
Certificate in Aerospace Engineering

Offers a PhD, a research-focused master of science and two applied master of engineering degrees.

Electrical Engineering

Program Description

Curriculums provide students with the opportunity to explore practical engineering and scientific concepts to create solutions for the engineering challenges of the future. Students should love math, have strong study habits, the ability to visualize abstract concepts, and a willingness to explore and create new designs from first principles.

North Carolina A&T State University

Electrical and Computer Engineering
1601 E. Market Street
Greensboro, NC 27411

Contact:

John C. Kelly, Ph.D.
Chairman, Electrical and Computer Engineering
Department
336-334-7760, ext. 210
jck@ncat.edu
www.ncat.edu/academics/schools-colleges1/coe/elen

Bachelor of Science (BS)
Master of Science (MS)
Doctor of Philosophy (PhD)

Four areas of concentration:
Computer Engineering,
Communications and Signal
Processing, Electronic and Optical
Materials and Devices, Power
Systems and Control

North Carolina State University

3098 Engr Bldg II
Campus Box 7911

Contact:

Dr. Daniel Stancil
Department Head, Electrical and Computer Engineering
919-513-3606
ddstancil@ncsu.edu
www.ece.ncsu.edu/undergraduate/electrical_engineering

Bachelor of Science (BS)
Master of Science (MS)
Doctor of Philosophy (PhD)

Bachelor of Science (BS)
Master of Science (MS)
Doctor of Philosophy (PhD)

University of North Carolina at Charlotte

The William States Lee College of Engineering
Electrical and Computer Engineering
9201 University City Boulevard
Charlotte, NC 28223-0001

Contact:

Dr. Ian Ferguson, Ph.D.
Professor and Department Chairman
704-687-8404

ianf@uncc.edu

<http://ece.uncc.edu>

Western Carolina University

Department of Engineering and Technology
220 Belk Building
389 Centennial Drive
Cullowhee, NC 28723

Contact:

Robert Adams
Ph.D., Interim Department Head, Associate Professor,
EE & ECET Program Director
828-227-2181

radams@wcu.edu

www.wcu.edu/academics/departments-schools-colleges/Kimmel/academic-programs-degrees-offered/engtech/ee

Bachelor of Science (BS)
Master of Science (MS)

New Programs:

Engineering-Mechanical
Engineering Concentration, B.S.
(EAC of ABET Accreditation to be sought in 2017.)

Other Programs

Engineering Technology -
Technical Operations, B.S. Off-Site
Program
(This program is not Accredited by
ABET.)

Engineering

Program Description

Engineering programs are project based learning with high faculty-student interaction. Students will learn the application of scientific, economic, social and practical knowledge to prepare them to design, build and improve systems, structures, machines and other high tech devices.

Fayetteville State University

Department of Mathematics and Computer
Science
1200 Murchison Road
Fayetteville, NC 28301

Contact:

Dr. Cevdet Akbay, Chair
910-672-1943, STB 305

cakbay@uncfsu.edu

www.uncfsu.edu/fsu-ncsu-engineering

Bachelor of Science (BS)

The BS in Engineering at Fayetteville State University and North Carolina State University is a "3 + 2" Dual Degree Program. Students can earn two Bachelor of Science degrees in 5 years—one from each institution. Four engineering programs are offered: Chemical Engineering, Computer Engineering, Electrical Engineering Civil Engineering.

North Carolina State University at the University of North Carolina at Asheville

NC State University Engineering Programs:
UNC Asheville CPO#2360
One University Heights
Asheville, NC 28804-8511

Contact:

Dr. Stephen Walsh
Director

Bachelor of Science (BS)

NC State University Bachelor of Science in Engineering degree - Mechatronics Concentration (JEM) - Administered on the campus of UNC Asheville. Comprises course work from the Departments of Mechanical and Aerospace Engineering (MAE), Electrical and Computer Engineering (ECE) and Mechatronics.

828-251-6944
siwalsh@ncsu.edu
www.engr.ncsu.edu/mechatronics/joint.php

From the University of North Carolina at Asheville comes an engineering-themed Humanities and Social Science component with a rich liberal arts foundation.

East Carolina University

Department of Technology Systems
Science and Technology Building,
Suite 201
Greenville, NC 27858

Contact:

Dr. Hayden Griffin
Engineering Chair
252-7373-1026

griffin@ecu.edu

www.ecu.edu/cs-tecs/engineering

Bachelor of Science (BS)

Offers five areas of concentration:
Biomedical Engineering, Bioprocess
Engineering, Electrical Engineering,
Industrial and Systems Engineering,
Mechanical Engineering

Industrial Engineering

Program Description

Students learn to make decisions concerning the best use of people, material, equipment, and energy in achieving an organization's aims. The industrial engineer systematically collects, analyzes, and arranges factual information in such a way as to fulfill management's needs.

North Carolina State University

Industrial & Systems Engineering
400 Daniels Hall
College of Engineering
North Carolina State University
Raleigh, NC 27695

Contact:

Paul Cohen
Edgar S. Woolard Distinguished Professor
& Department Head
(919) 513-2857

pcohen@ncsu.edu

www.ise.ncsu.edu

Bachelor of Science (BS)
Master of Science (MS)
Doctor of Philosophy (PhD)

Three Masters degree programs are currently offered: Master of Industrial Engineering, MIE; the Master of Science in Industrial Engineering, MSIE; and the dual Master of Industrial Engineering/Master of Business Administration, MIE/MBA. In addition, we offer a Doctorate (PhD) in Industrial Engineering.

Industrial and Systems Engineering

Program Description

The Program transforms the industrial and systems engineering pipeline by providing educational and research experiences relevant to societal and industry needs and enabling individual development into technically proficient, culturally competent, collaborative leaders making a positive difference for their employers, communities, and the discipline; always embracing excellence in performance and conduct.

North Carolina A&T University

Industrial & Systems Engineering
1601 E. Market Street
Greensboro, NC 27411

Contact:

Dr. Tonya Smith-Jackson
Department Chair

Bachelor of Science (BS)
Master of Science (MS)
Doctor of Philosophy (PhD)

Materials Science Engineering

Program Description

The mission is to provide students with a sound materials engineering education, advance the understanding and application of scientific principles, enhance economic development, and improve the quality of life of citizens. Students are exposed to modern materials engineering principles and have access to modern equipment and technology.

North Carolina State University

Department of Materials Science and Engineering

911 Partners Way

EB I, Room 3002

Raleigh, NC 27695-7907

Contact:

Justin Schwartz

Department Head and Kobe Steel Distinguished Professor

919-515-0493

justin_schwartz@ncsu.edu

www.mse.ncsu.edu

Bachelor of Science (BS)

Master of Science (MS)

Master of Materials Science and Engineering (MMSE)

Doctor of Philosophy (PhD)

The Minor in Materials Science and Engineering provides undergraduate engineering and science majors in curricula other than MSE with the fundamentals of modern materials science and engineering.

Mechanical Engineering

Program Description

Mechanical engineering involves practical application of mechanical and thermal sciences to research, design, development, testing and manufacturing of a wide variety of products. Programs have evolved to include areas such as robotics, mechatronics, precision engineering, automated manufacturing systems, combustion and propulsion.

Duke University

Department of Mechanical Engineering and Materials Science

Box 90300 Hudson Hall

Durham, NC 27708-0287

Contact:

Earl H. Dowell

Chair

919-660-5302

dowell@mail.ee.duke.edu

www.mem.s.duke.edu

Bachelor of Science-Engineering (BSE)

Master of Science (MS)

Master of Engineering (MEng)

Doctor of Philosophy (PhD)

Certificate in Aerospace Engineering

4+1: BSE+Master's Degree can be obtained in five years. The school recently launched an undergraduate certificate programs with specialization in Aerospace Engineering.

North Carolina A&T University

Mechanical Engineering Department

1601 East Market Street

Greensboro, NC 27411

Contact:

Samuel P. Owusu-Ofori

Professor and Chairperson

336-285-3748

Bachelor of Science (BS) in Mechanical Engineering

Master of Science (MS) in Mechanical Engineering

Doctor of Philosophy (PhD)

The undergraduate degree program has an Aerospace Option for students who are

ofori@ncat.edu
www.ncat.edu/academics/schools-colleges1/coe/meen

interested in aerodynamics, aero-propulsion, avionics and aero-structures.

North Carolina State University

Department of Mechanical & Aerospace Engineering
Engineering Bldg 3, Campus Box 7910
911 Oval Drive
Raleigh, NC 27695-7910

Contact:

Dr. Richard Gould
R J Reynolds Professor & Department Head
919-515-2368

gould@eos.ncsu.edu
www.mae.ncsu.edu

Bachelor of Science (BS)
Master of Science (MS)
Doctor of Philosophy (PhD)

Mechanical Engineering (ME)
Aerospace Engineering (AE).

Accelerated BS/MS and direct path to PhD options in both ME and AE.

Graduation in May and December

University of North Carolina at Charlotte

9201 University City Boulevard
Charlotte, NC 28223-0001

Contact:

Robert E. Johnson
Professor and Dean, College of Engineering
704-687-8242

robejohn@uncc.edu
<https://mees.uncc.edu>

Bachelor of Science in Mechanical Engineering (B.S.M.E.) - with concentrations in Motorsports or Energy Engineering
Master of Science in Mechanical Engineering (M.S.M.E.)
Master of Science in Engineering (M.S.E.)
Doctor of Philosophy in Mechanical Engineering (Ph.D.)

Systems Engineering

Program Description

Systems Engineering and Engineering Management (SEEM) students are exposed to systems, management, business, and engineering concepts as well as applications. The Program develops the knowledge and skills necessary to effectively solve complex problems and manage multidisciplinary project teams.

University of North Carolina at Charlotte

The William States Lee College of Engineering
Systems Engineering and Engineering Management

9201 University City Boulevard
Charlotte, NC 28223-0001

Contact:

Dr. Ertunga C. Ozelkan
Associate Professor, Interim Chair of Systems Engineering & Engineering Management
704-687-1952

ecozelka@uncc.edu
<https://seem.uncc.edu>

Bachelor of Science (BS)
Master of Science (MS)
Doctor of Philosophy (PhD)

SEEM partners with the Ph.D. programs of the Electrical and Computer Engineering, and Mechanical Engineering and Engineering Science Departments. As a result, doctoral studies in the areas of systems engineering and engineering management may be possible through the Ph.D. program in Mechanical Engineering, and the Ph.D. program in Electrical Engineering.

Computer Science Disciplines

Computer Science

Program Description

Computer Science is focused more on the creative engineering aspects of software design & development than merely on programming. Curriculum provides students with exposure to areas such as: Game Design, Cyber Security, Robotics, Software Engineering, and Computational Science & Engineering.

Appalachian State University

P.O. Box 32133
CAP Science Building
Boone, NC
28608-2133

Contact:

Dr. James Wilkes
Chairperson
828-262-2370

jt看@cs.appstate.edu

<http://compsci.appstate.edu>

Bachelor of Science (BS)

Master of Science (MS)

The curriculum includes a balance between theory and applications and is built around a core of required courses in the basic areas of computer science.

Fayetteville State University

Department of Mathematics and Computer Science

1200 Murchison Road
Fayetteville, NC 28301

Contact:

Dr. Dwight House
Chair
910-672-1111

dhouse@uncfsu.edu

<http://www.uncfsu.edu/macsc>

Bachelor of Science (BS)

FSU is the only NC higher education institution to win an award from the Institute for Personal Robots in Education (IPRE). The school received paperback book-sized robots called Scribblers to enhance curriculum using the robots as a context for teaching foundational computing skills.

North Carolina A&T University

Computer Science Department
1601 E. Market Street
Greensboro, NC 27411

Contact:

Gerry V. Dozier, Ph.D.
Chairman and Professor
336-285-3693

gvdrazier@ncat.edu

www.ncat.edu/academics/schools-colleges1/coe/comp

Bachelor of Science (BS)

Master of Science (MS)

The Computer Science Department performs research funded by agencies including the National Aeronautics and Space Administration, the U.S. Air Force, the National Security Agency, the Naval Oceanographic Office, National Science Foundation and among others.

North Carolina State University

Department of Computer Science
890 Oval Drive, Campus Box 8206
Raleigh, NC 27695-8206

Contact:

Dr. Mladen Vouk, Department Head
919-513-0348

vouk@csc.ncsu.edu

<http://www.csc.ncsu.edu>

Bachelor of Science (BS)

Master of Science (MS)

Doctor of Philosophy (PhD)

Master's Degree Program offers: Master of Science (thesis), Master of Computer Science (non-thesis) and Master of Computer Networking (thesis or non-thesis).

University of North Carolina at Greensboro

Department of Computer Science
67 Petty Building
Greensboro, NC 27402-6170

Contact:

SteveTate
Professor and Department Head
336.256.1112 - Petty 166
srtate@uncg.edu
<http://www.uncg.edu/cmp>

Bachelor of Science (BS)
Master of Science (MS)
Accelerated BS+MS Program available
for students to earn both degrees in five
years.

Winston-Salem State University

Department of Computer Science
Elva J. Jones Computer Science Building
601 Martin Luther King Jr. Drive
Winston-Salem, NC 27110

Contact:

Elva J. Jones, Ph.D.
Chairperson,
336-750-2480
jonese@wssu.edu
<http://compsci.wssu.edu>

Bachelor of Science (BS)
Master of Science (MS)

Offer three degree programs: Bachelor of
Science in Computer Science, Bachelor of
Science in Information Technology,
Master of Science in Computer Science
and Information Technology.

Computer Science – System Option**Program Description**

The Program enables students to achieve the following: Knowledge of mathematical, algorithmic, and computing principles appropriate to the design and implementation of computer-based systems; Apply analysis, design, development, and testing principles in the construction of software systems; Function effectively on a software development team; and Communicate effectively on technical subject matters.

University of North Carolina at Wilmington

Department of Computer Science
CIS Building, Room 2010
601 South College Road
Wilmington, NC 28403

Contact:

Dr. Laurie Patterson
Department Chair, Associate Professor
910-962-3906
pattersonl@uncw.edu
<http://uncw.edu/csc>

Bachelor of Science (BS)
Master of Science (MS)
The Master of Science in Computer
Science and Information Systems
(MSCSIS) degree is part of
the Professional Science Master's (PSM)
Program, new graduate degrees designed
to allow students to pursue advanced
training in science or mathematics, while
simultaneously developing workplace
skills highly valued by employers.

Information Technology**Program Description**

The Computer Science (CS) program prepares students for a wide range of career opportunities. Career paths are: computer programming, computer system analyst, database administration, network administration, applications development/ support, computer-aided design, computer-aided engineering, software engineering, computer graphics, visualization, imaging, Internet applications development, computational science, and hardware support.

Winston-Salem State University
Department of Computer Science
Elva J. Jones Computer Science Building
601 Martin Luther King Jr. Drive
Winston-Salem, NC 27110

Contact:

Elva J. Jones, Ph.D.
Chairperson,
336-750-2480

ionese@wssu.edu

<http://compsci.wssu.edu>

Bachelor of Science (BS)
Master of Science (MS)

Offer three degree programs: Bachelor of Science in Computer Science, Bachelor of Science in Information Technology, Master of Science in Computer Science and Information Technology.

Technology Disciplines

Civil Engineering Technology

Program Description

The Civil Engineering Technology program at UNC Charlotte includes education, research, and technology development in the following areas of Civil Engineering Technology: Structures; Construction; Transportation; Water Resources; and Geotechnical.

University of North Carolina at Charlotte

The William States Lee College of Engineering
Engineering Technology and Construction
Management

9201 University City Boulevard
Charlotte, NC 28223-0001

Contact:

Anthony (Tony) Brizendine, Ph.D. ,PE, PLS.
Professor, Department Chairman
704-687-5050

albrizen@uncc.edu

<http://et.uncc.edu>

Bachelor of Science (BS)
Master of Science (MS)

Undergraduate programs include: Civil Engineering Technology, Construction Management, Electrical Engineering Technology, Fire Safety Engineering Technology, Mechanical Engineering Technology

Graduate programs include Construction and Facilities Management and Fire Protection and Administration

Electrical Engineering Technology

Program Description

The Program graduates of the Bachelor of Science in Engineering Technology (B.S.E.T.) program for careers across a broad spectrum of technologies. Course-work includes: Linear Circuits; Digital Logic and Systems; Microprocessors, Microcontrollers and Embedded Systems; Electronic Circuits and Systems; Control Systems; and Power Systems.

University of North Carolina at Charlotte

The William States Lee College of Engineering
Engineering Technology and Construction
Management

9201 University City Boulevard
Charlotte, NC 28223-0001

Contact:

Anthony (Tony) Brizendine, Ph.D. ,PE, PLS.
Professor, Department Chairman
704-687-5050

albrizen@uncc.edu

<http://et.uncc.edu>

Bachelor of Science (BS)
Master of Science (MS)

Undergraduate programs include: Civil Engineering Technology, Construction Management, Electrical Engineering Technology, Fire Safety Engineering Technology, Mechanical Engineering Technology

Graduate programs include Construction and Facilities Management and Fire Protection and Administration

Electrical and Computer Engineering Technology

Program Description

The program emphasizes the application of microcomputers to the solution of industrial problems relating to automation, instrumentation, and control, in systems involving robotics, data communications, networks, and/or automated testing. In all cases, microcomputer hardware and software are used for data acquisition, transfer, and analysis.

Western Carolina University

Department of Engineering and Technology
220 Belk Building
389 Centennial Drive
Cullowhee, NC 28723

Contact:

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www.wcu.edu/academics/departments-schools-colleges/Kimmel/academic-programs-degrees-offered/engtech/ecet

Bachelor of Science (BS)
Master of Science (MS)

New Programs:

Engineering-Mechanical Engineering
Concentration, B.S. (EAC of ABET
Accreditation to be sought in 2017.)

Other Programs

Engineering Technology - Technical
Operations, B.S. Off-Site Program
(This program is not Accredited by ABET.)

Electronics Engineering Technology

Program Description

Graduates of this degree program design, install, maintain, and repair electrical and electronic equipment.

ECPI University – School of Technology

Charlotte Location:

4800 Airport Center Parkway
Charlotte, NC 28208
866-708-6167
www.ecpi.edu/technology/location/charlotte

Concord Location:

124 Floyd Smith Drive
Charlotte, NC 28262
866-708-6169
www.ecpi.edu/technology/location/charlotte-concord

Greensboro Location:

7802 Airport Center Drive
Greensboro, NC 27409
336-665-1400
www.ecpi.edu/technology/location/greensboro

Raleigh Location:

4101 Doie Cope Road
Raleigh, NC 27613
866-708-6173
www.ecpi.edu/technology/location/raleigh

Bachelor of Science
Associate Degree

Concentration in mechatronics available.

Must earn 124 semester credit hours.
Program requires a minimum of 8
semesters or 30 months of instruction.

In 2.5 years, through the year-round
schedule, students can earn a Bachelor
Degree.

ECPI provides students in this program
with vouchers to take certification exams
at a greatly reduced cost. Available
certifications for this program include
Fiber Optics Installer (FOI), Fiber Optics
Technician (FOT), A+ Certification,
Network+ Certification, Security+
Certification, GMDSS - Global Maritime
Distress and Safety System Maintainer
License, GROL - General Radiotelephone
Operator's License, and Associate CET.

Engineering Technology, Applied Systems Technology

Program Description

The mission of the Engineering Technology Program is to prepare graduates with the technical and managerial skills necessary to enter careers in process and systems design, technical sales, manufacturing operations, maintenance or service functions of a manufacturing enterprise.

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Mechanical Engineering Technology

Program Description

The Mechanical Engineering Technology program includes education, applied research, and technology development in the areas of: Machine Design – Including product design and development; Thermodynamics – Including power plant and engine design, and heating, ventilating, and air conditioning; Fluid mechanics – Including fluid flow and pipeline design; Dynamics – Including mechanical systems analysis; Instrumentation and hands-on laboratories

University of North Carolina at Charlotte

The William States Lee College of
Engineering
Engineering Technology and Construction
Management
9201 University City Boulevard
Charlotte, NC 28223-0001

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Professor, Department Chairman
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<http://et.uncc.edu/undergraduate-programs/mechanical-engineering-technology>

Bachelor of Science (BS)

Machine Design, Thermodynamics, Fluid
mechanics, Dynamics, Instrumentation
and hands-on laboratories