Wake Technical Community College

STEM: A Career Booster Page 2

Data Storage in the Sky

Page 4

The Job Search Top 10 Tips Page 5

M+O+O+C = A New Formula for Mastering Math Page 8

Eye on the Eagles

ake Tech Athletics is celebrating its 5th anniversary! Launched in the fall of 2008, the program has emerged from its initial "building" years to become a solid collegiate program, largely the result of skillful leadership combined with some stellar athletic talent.

Finding talent is vital to any athletics program. Barry Street, Wake Tech Athletics Director, says recruiting has been more successful with each passing year. "People know about us now, and they're talking about the success of our athletic teams and our great facilities," says Street. "Students and their families here in Wake County see Wake Tech as a fantastic educational option - now, we also have student athletes from outside the area calling us about the opportunities to be had at Wake Tech!"

One indication of the athletic program's success is the men's basketball team, which finished the 2012-13 season with the best record in the history of the program: 24 wins and 9 losses. The team was the runner-up at the conference tournament and ranked 17th in the nation in NJCAA DII polls. Scores of Wake Tech "Eagles" have gone on to continue collegiate sports careers after graduating.

Wake Tech's women's volleyball and basketball teams finished with

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winning seasons as well, breaking college records in their respective sports. "Now that we have a good track record, high school coaches are recommending Wake Tech to their players," says Street. "They keep track of the players they send us – and when they see the athletic and academic success they're having at Wake Tech, they send more players our way."

Recruitment efforts look good for the 2013-14 season. Several talented high school athletes committed early to Wake Tech for the fall term. The community is encouraged to come out to Wake Tech games to see these talented newcomers and our seasoned second-year athletes bring their best to the court and field.



Fall sports at Wake Tech include women's volleyball, and men's and women's basketball, soccer, and cross country. Teams compete in Region X in the NJCAA. More information and game schedules can be found at athletics.waketech.edu. You can also become a friend of Wake Tech on Facebook or follow @waketechsports on Twitter! ■





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Career Focus is published by Wake Technical Community College to encourage Wake County residents to enrich their lives through lifelong learning, to provide information about careers and Wake Tech's programs of study, and to promote workforce training and economic development. Questions about the Wake Tech programs and services described in this publication should be directed to 919-866-5000. To inquire about advertising in Career Focus, or for questions and comments about this publication, call 919-866-5929.

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CareerFocus

IFC Eye on the Eagles

COVER STORY

2 STEM: A Career Booster

Discover the Benefits of a Solid Foundation in Science, Technology, Engineering and Math!

- 4 Data Storage in the Sky Down-to-Earth Training for Cloud Computing
- 5 The Job Search: Employers Share Their Top 10 Tips
- 6 High Speed Access to Opportunity New Program Offers Training in Broadband Technology

FACTS AND FINDS

7 Social Media Job-Hunting Strategies

8 M+0+0+C = Success

Massive Open Online Course offers a new formula for mastering math

ALUMNI PROFILE

8 Bryan Thornton

REGISTRATION

9 How to Enroll in Classes at Wake Tech

WAKE TECH A TO Z

10 Say "Cheese!"

IBC The Ripple Effect Grows Throughout the Community



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waketech.mycareerfocus.org

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me

On the cover: Wake Tech's Health Sciences programs are among a variety

Sciences programs are among a variety of options in the STEM fields.

From the President

You may be hearing a lot about something called STEM these days – science, technology, engineering, and mathematics. A national initiative is afoot to rekindle students' interest in math and science, disciplines that are critically important to our lives and our future. And those skilled and qualified to work in STEM fields will find that opportunities abound! Wake Tech offers a wide variety of STEM courses and programs, including health care, biotechnology, engineering, computer technologies, and much more. We also provide resources and support for students who embark on these exciting and challenging career pathways.

You can take Wake Tech classes in the daytime, evening, or on Saturdays; you can find campus locations convenient to your home or workplace; you can take classes online from the comfort of home! Our support services will help you navigate options, find financial assistance, and participate in campus life.

Let us help you prepare for a great future, as you consider options in the exciting world of STEM!

Dr. Stephen C. Scott President 20

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STEM: A Career Booster Discover the Benefits of a Solid Foundation in Science, Technology, Engineering and Math!





How about a career in a field that's growing rapidly, pays well, and offers financial security?

Careers in science, technology, engineering, and mathematics (STEM) are waiting for you! Health care, information technology, biotechnology, landscape architecture, graphic design, mechanical engineering, and forensics – these are just a few of the fascinating careers in STEM fields. And all are built on a solid foundation in math and science.

Math and science are part of our everyday lives; we rely on math

and science to analyze economic conditions, understand our environment, and plan for our futures. We need those skills today in ways we could not have imagined a few short years ago. Advances in medicine and scientific research

The STEM initiative is focused on securing America's leadership in science, technology, engineering, and mathematics and identifying promising strategies for strengthening the educational pipeline that leads to STEM careers.

help us improve our health, live longer, and understand more

about the universe we inhabit. Innovations in technology help us work more efficiently and communicate more effectively on a global scale.

Surprisingly, however, many students aren't interested in learning the basics of algebra or calculus, and fewer are digging into

the mysteries of physics, biology, or chemistry. Why is this?

> The STEM initiative is focused on securing America's leadership in science, technology, engineering, College and mathematics and identifying promising strategies for strengthening the educational pipeline

that leads to STEM careers. A strong math and science foundation gives students the problem-solving and analytical skills that are so valuable to success in any career, says Wake Tech Dean of Mathematics and Sciences Dr. Cheryl Keeton: "Students who learn these skills are better equipped to ask meaningful questions and become better decision-makers for their families, businesses, and communities." Whether the job is designing prosthetics for war veterans, governing a community or state, or developing water treatment



A strong math and science foundation gives students the problem-solving and analytical skills that are so valuable to success in any career.

technologies for a developing nation, a good foundation in math and science is required.

STEM Grows Jobs and Salaries

The fact is, a strong background in math and science also opens doors to higher-paying jobs and greater opportunities over a lifetime. Jobs requiring STEM skills are growing five times faster than others and are expected to cover 65 percent of the job market. According to a 2012 congressional report, people who work in STEM fields earn 26% more than those who work in non-STEM fields – and the so-called "STEM



Sharon Lin

premium" is getting larger every year. (*Joint Economic Committee Report*, April 2012) The Raleigh metropolitan area ranks fifth in the growth of STEM jobs over the past decade. (*Forbes*, January, 2013)

STEM Centers

Wake Tech has been creative in its approach to attracting students to STEM, with innovative new STEM Centers on both Main Campus and Northern Wake Campus. Students in science, technology, engineering and math courses can now find resources, get help with homework or a project, and connect with faculty and other STEM students in the Centers. STEM Centers are staffed by experts who can help students get through those sometimes-tough classes. 2013 graduate Andrew DeLissio was among the first to take advantage of the Centers when they opened. "It helped me because an instructor was there for me to ask questions when I did my homework." Andrew graduated with an Associate in Science-Engineering degree and is transferring to NC State to pursue a bachelor's degree.

Women in STEM

According to the White House, supporting women in STEM is an essential part of America's strategy to out-innovate the rest of the world. Women in STEM jobs earn 33% more than women in non-STEM



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STEM Success

Raleigh-Cary ranked fifth among the 51 largest metropolitan areas in growth of science, technology, engineering and mathematics jobs from 2001 to 2012. (source: *Forbes*, January 2013.)

- 1. Washington, DC
- 2. Riverside, CA
- 3. San Antonio, TX
- 4. Baltimore, MD
- 5. Raleigh-Cary, NC

STEM Programs

For College/University Transfer:

- Associate in Science
- Associate in Science Engineering

For Immediate Employment:

- Health Sciences
- Computer Technologies
- Engineering

occupations and are engaged in some of the most exciting realms of discovery and technological innovation (www.whitehouse.gov). In addition, the gap in salaries between men and women is smaller in the STEM fields. That's why Wake Tech is starting a unique Women In STEM Learning Community called "WiSTEM" - sounds like "wisdom." Three courses for women only are being offered this fall: Math 171, Biology 111 and ACA 090 (Study Skills). These classes are taught by women, for women; and they have been designed with the needs and strengths of women students in mind. "We know that there are fewer women going into STEM fields than men," says Dr. Keeton. "We need to change that. Women bring a

perspective that contributes a fuller understanding of the needs of society and humankind."

Lead the way

Sharon Lin recently graduated from Wake Early College of Health and Sciences with a high school diploma AND an associate in science degree. She's transferring to UNC Chapel Hill, and hopes to one day be a pharmacist. "I never thought I would like science," she says. "But I found out that I actually enjoyed chemistry!"

For more information, visit stem.waketech.edu.



Data Storage in the Sky Down-to-Earth Training for Cloud Computing

ou've probably heard of cloud computing operating a computer remotely or storing images and information somewhere in cyberspace. The truth is, all that information still has to go somewhere on terra firma, and it does: to large data centers located around the world. Three of the country's top providers of data services - Citrix, EMC, and NetApp – have a presence right here in the Triangle, and Wake Tech is uniquely positioned to train people for careers with these industry giants. The college is launching a new program called Computer Technology Integration – Data Storage and Virtualization. It teaches students how to work on the very specialized hardware used in data centers and how to virtualize operating systems to connect with these centers via "the cloud."

"This is the future of computer technology," says Department Head Matt Zullo. "A student who gets a two-year degree in Data Storage and Virtualization can work on any system in the world."

Students start by training on NetApp's data center simulator to learn the skills they need to be successful. Scott Thornton is finishing his Networking Technologies degree and has already been hired by NetApp to work as first-line support on the servers in the company's data center in Morrisville. He plans to pursue the new CTI degree during the day while working at night. "It has really sparked my interest," he says. "There are a lot of career options, whether it's networking or working on servers, and the technology is always changing."

NetApp Senior Manager Bob Nelson says it's also important that students get a well-rounded education. "Fortune 500 companies in a variety of industries, such as financial, transportation, and homeland security, rely on digital storage to manage and protect their data. We need employees who not only



Scott Thornton

understand the fundamentals of this sophisticated and complex hardware, but who are also critical thinkers with the communication skills to interact with some of the biggest companies in the world."

For more information, visit computerintegration.waketech.edu.







A Year of Golden Moments

It's an exciting year at Wake Tech! The college is celebrating 50 years of educating and training the community – and looking forward to the next 50.

Anniversary events and activities are taking place all year long, on all five Wake Tech campuses. From a Health Sciences Open House, to the first annual Road Scholars 5K Run/Walk, to "An Evening of Fine Arts," Wake Tech is celebrating all the ways the college has had a "ripple effect" in the community.

Look for more special events this fall, as Wake Tech leads the way to another 50 years! 50 years! S0 years!

The Job Search: Employers Share Their Top 10 Tips

The job search can be daunting, whether you're looking for new employment or trying to find better career opportunities within your field. How can you make the search process less painful – and more successful? We asked employers in the Triangle what they look for in job applicants and what advice they would offer those who want to get hired. Take a look at their top ten answers below, and start taking their advice right away!

You are always on a job interview.

Career opportunities are often the result of "chance" encounters: someone you met once or interacted with only briefly remembers you and the lasting impression you made. Stay ready!

2 Don't wait until you need a network to build a network.

Networking is about finding ways to help others – without expecting anything in return – and building strong relationships. If you don't reach out until you're desperate, it will be too late.

Get off your computer and out of your house!

If you spend all your time in front of a computer looking for a job, you're likely to remain there! Meet others – volunteer or take part-time work while you continue your search.

Job seekers must be able to articulate their unique talents and the value they can bring to an organization.



Know your value. Being good at what you do, and simply hoping others notice, is not good enough. Job seekers must be able to articulate their unique talents and the value they can bring to an organization.

JOB

Iron your shirt and shine your shoes!

First impressions are important, and they're formed at least in part by the way we dress. Spending a lot on your attire isn't necessary, but looking as though you care about your appearance is.

Good grooming matters.

Putting on a nice suit isn't enough; you should be impeccable as well as professionally dressed.

Know your potential employer's business.

Simply knowing what a potential employer does is not enough. You need to understand how the business works, how it makes money, and who its competitors are. This isn't difficult to do – time consuming yes, difficult, no.

Don't suffer from "I" strain.

Let potential employers know that you can be a team player. You can articulate your unique abilities while still acknowledging that your success is also dependent on others.

Spending a lot on your attire isn't necessary, but looking as though you care about your appearance is.

Use social media to your advantage.

Employers are increasingly using Facebook, Twitter, LinkedIn, and other social media outlets to find job candidates. Make sure that what they find about you is professional and appropriate for all audiences. If you've posted anything that gives you "cause to pause," get rid of it.

Know yourself – and let employers have a look!

Be ready to summarize who you are and the experience you've had in a few words. More important, let potential employers know why your work mattered. Saying that you drove a bus is a lot different from saying that you were responsible for the safe transport of 25 passengers as well as the reputation of the bus company – that's what you want to convey! ■

High Speed Access to Opportunity New Program Offers Training in Broadband Technology

ot very long ago, Internet use at home depended on slow dial-up service. Downloading a song could take anywhere from 10 to 30 minutes – a movie, up to 28 hours!

All that changed with the introduction of broadband technology, which enables high-speed data transmission and faster Internet service. Today about 90% of all homes with computers use broadband, and that means skilled technicians who

understand the technology are needed to install and maintain it.

A unique partnership program at Wake Tech is offering job seekers training in the expanding field of broadband telecommunications. The Broadband Technician Training program, the only one of its kind in North Carolina, springs from the collaborative efforts of Wake Tech, Time Warner Cable, and the Apprenticeship and Training Bureau of the North Carolina Department of Labor (NCDOL).

"Today's cable and broadband technicians need a wide range of technical skills, and we believe programs like this will help us build a pipeline of highly-skilled applicants who are ready to enter the workforce," says Kenny Hulsey, Time Warner Cable's Director of Technical Training, East Region. "The hands-on training Wake Tech students receive is comparable to what we provide for new hires here at Time Warner Cable, so these students will be well-equipped to compete for our positions."

During the three-month class,



students learn how to install and troubleshoot cable, telephone, and internet services; practice equipment testing using the appropriate tools; and study industry standards and customer service. Students earn several credentials that able to any industry,

are transferrable to any industry, including the nationally-recognized Career Readiness Certificate, an OSHA (Occupational Safety and Health Administration) card, and CPR certification. In addition, officials at NCDOL have identified Wake Tech's broadband training as a "pre-apprenticeship" program: While still in the classroom, students get occupational experience that they can apply toward apprenticeship with a future employer.

"Broadband technology is truly taking over. It's about high-speed Internet access and so much more," says Ray Tims, Dean of Education Services and Technology in the Continuing Education Division at Wake Tech. "We're now using broadband for our television, telephone, home security systems, automated lights and thermostats. The possibilities with this technology are endless, and so are the job opportunities."

Joseph Ellington III, a small business owner and Wake Tech alumnus, came back to the college last fall for the broadband training: "I find it fun to work at becoming an expert at whatever I do," Ellington says. "I've been taking classes at Wake Tech since 1975. I keep coming back because the real-world experience these instructors have makes them a great resource."

For more information on Wake Tech's Broadband Technician training, visit continue.waketech.edu.



Joe Ellington





UNEMPLOYED? WAKE TECH CAN HELP! Enhance Your Resume - Market Yourself - Explore a New Career

Wake Tech offers all the tools you need to get back into the workforce. Classes starting soon! No charge for the unemployed or underemployed.



Social Media Job-Hunting Strategies



Today's job seekers feel almost obligated to use LinkedIn, Facebook and Twitter, but now we're hearing that social media may not be as effective as has been hyped. What social media strategies actually work in landing a job?

- Your headshot: Your pic needs to be a head-and-shoulders shot in attire you'd wear on the job. You should look alert, engaged and have a natural-looking smile.
- Your headline: It needs to state your brand with a sizzle, but without sounding like hype. Include keywords that an employer is likely to search. Ex: "Search engine marketer with 3 promotions in 3 years."
- Your LinkedIn profile: It should include a concise version of your resume, highlighting the skills and achievements that are most likely to impress an employer.

"Job Hunters: It's Time to Up Your Social Media Game," jobs.aol.com





Sign up for Wake Tech's e-News: enews.waketech.edu

Want a Job? **Get a Community College Degree**

Hants

The U.S Department of Labor reports that in 2012 more jobs were created for workers with two-year degrees than for workers with bachelor's

degrees. Some of those occupations include operators of computerized factory machines, heating and air conditioning repair technicians, X-ray technicians, medical records specialists and low- to mid-level managers.

That's not just good news for community college grads, it's a sign of a recovering economy, says Anthony Carnevale of the Georgetown University Center on Education and the Workforce. Carnevale adds that the trend also indicates an increased demand for skilled workers who can be trained quickly.

"Employment surges for community college grads," USA Today



The More You Give, The More You Get

What would make you happier at work? More money? More interesting projects? More flexibility in your schedule? While these are often cited reasons for job dissatisfaction, what if simply doing more to help your co-workers and clients could increase your satisfaction with your work?

Come again? Doing more at work can make you happier?

Well yes, says author and organizational psychologist Adam Grant. The opportunity to help other people isn't a distraction from more important tasks, it's an opportunity to feel good about yourself and vour work.



Grant backs up his claims with research and case studies in his new book Give and Take, describing how the act of helping others can add meaning and satisfaction to our work.

"Is Giving the Secret to Getting Ahead?" nytimes.com 🗖

College Scorecard

Know the Score

Now it's easier to get the facts about the real costs of college by using a new tool developed by the federal government.

The College Scorecard allows you to compare the cost of tuition at two- and fouryear colleges, and to see graduation rates, average student loan rates and default rates.

The Scorecard also allows you to narrow your search by location, degrees, occupations, and characteristics of the college.

It's a fantastic source of information, but users should remember that no student is "average" and many factors such as admission requirements, financial aid and program flexibility are important to factor into the equation. Don't eliminate a college based on its Scorecard before you do more research!

Find the College Scorecard at college cost.ed.gov/scorecard

M+O+O+C = Success Massive Open Online Course offers a new formula for mastering math

ho needs algebra, right? YOU do! Algebra is essential in everyday life, and it's used by professionals of all kinds, from doctors and scientists to

electricians and plumbers. Algebra is the "gatekeeper" for higher-level math classes necessary for success in college, and in life. Yet for many students who come to Wake Tech, algebra is a stumbling block on the path to graduation and a college degree.

But that's about to change!

Wake Tech is now offering a free introductory algebra course through what's known as a MOOC – a Massive Open Online Course. Pioneered by elite universities such as MIT, Harvard, and Stanford, MOOCs offer free online instruction that is open to anyone in the world. Wake Tech is the first community college in the state, and one of the first in the country, to offer a MOOC.

The Wake Tech MOOC, Introductory Algebra Review, is designed to serve as a supplement to seated classes in developmental math and to prepare students to perform better on the math placement test. It is not for college credit.

- The Introductory Algebra Review MOOC covers the first five modules of the North Carolina Community College System's developmental math curriculum:
- **Operations with Integers**
- Fractions and Decimals
- Proportions/Ratios/Rates/Percents
- Expressions, Linear Equations, Linear Inequalities
- Graphs and Equations of Lines



"Math presents challenges for many community college students," says Laura Kalbaugh, Dean of Academic and Transition Resources at Wake Tech, "and the MOOC can help. It's a great resource for those who are thinking about enrolling in college as well as those currently taking algebra who need some extra help."

Wake Tech's Introductory Algebra Review MOOC was developed though a partnership with Udacity and funded by a grant from the Bill and Melinda Gates Foundation. To enroll, visit mooc.waketech.edu. "Math presents challenges for many community college students and the MOOC can help."

Alumni Profile: Bryan Thornton, Class of 1964

CreatingSuccess Hope • Opportunity • Jobs



A True "First" "I always feel like if you dream it, maybe it will happen."

In his family, Bryan Thornton is a trailblazer – the first to earn a high school diploma, and the first to leave the family's Sampson County farm in search of a better life. Bryan grew up working on that farm and knowing he wanted to do more, to learn more. He moved to Raleigh and found employment as an orderly at Dorothea Dix hospital. Soon after, he heard about the new W.W. Holding Technical Institute opening a few miles south of the capital city, and he enrolled. "All I wanted to do was learn a trade to advance myself," Bryan says.

As one of the first students at Holding Tech, he worked the night shift at Dorothea Dix and attended classes during the day. He studied Electrical Installation and Maintenance, one of the first four programs offered at what would later become Wake Tech Community College.

"I remember how good the teachers were," he says. "They were well trained, and I remember that the man who taught electrical installation was very skilled because he had done that type of work before."

In 1964, Bryan was part of Holding Tech's first graduating class. He went on to get more training in electronics in the U.S. Army, and he had a successful career designing cell phones before he retired in 2008. "I always feel like if you dream it, maybe it will happen," Bryan says. "Sure enough, I ended up with a good job, a house, and a family. I think Holding Tech played a big part in that. It's where I got my start, my foundation." In recognition of Wake Tech's 50th anniversary, Bryan received the 2013 Distinguished Alumni award. ■



How to Enroll in Classes at Wake Tech

Step 1: Apply for Admission

- ☑ Complete an online Application for Admission: admissions.waketech.edu and follow prompts
- \mathbf{N} Apply for Financial Aid and Veterans benefits (if applicable): financialaid.waketech.edu
- ∇ **Request transcripts:** Have all high school and college transcripts, SAT scores, and/or ACT scores mailed to: Wake Technical Community College Admissions Office, 9101 Fayetteville Road, Raleigh, NC 27603-5696
- $\mathbf{\nabla}$ Schedule a college placement test: testingcenter.waketech.edu
- $\mathbf{\nabla}$ Meet with an academic advisor: advising.waketech.edu - get help for selecting the courses you need to meet your academic goals!

Step 2: Register for Classes

Browse course offerings: You can plan your classes and schedule without a User ID or a password! Visit webadvisor.waketech.edu, click Future Students, and Search for Curriculum Sections. [For stepby-step, detailed instructions for WebAdvisor, visit wainfo.waketech.edu]

When you're ready to register for classes:

- ☑ Activate your **Key Account** It's the one login that will allow you to access WebAdvisor and many other college services. Visit my.waketech.edu, click Activate Account and follow the prompts to establish your Key Account User ID and password.
- $\mathbf{\nabla}$ Visit webadvisor.waketech.edu, click Log In, enter your Key Account User ID and password, and click Submit.
- Select Current Curriculum Students (Credit). $\mathbf{\nabla}$
- Under the heading "Registration," click Register for Sections ∇ and follow the prompts to select your classes.

Step 3: Pay Tuition

Pay for your classes - online or on campus - before the deadline, and you're ready to go!

Questions about Admissions or Advising?	Questions about Registration?	
Student Information: 919-866-5500 Admissions: visit	Registration Information: 919-866-5700	
admissions.waketech.edu or email admissions@waketech.edu.	Visit wainfo.waketech.edu or	

- Advising: visit advising.waketech.edu or email advising@waketech.edu.
- email registrar@waketech.edu.



Kev Dates – Fall 2013 Semester

Semester Dates
Registration period*
Last day to add a full 16-week class
Last day to add a first 8-week mini-mester class
Last day to add a second 8-week mini-mester class 10/21/2013
*Students register by assigned priority
Tuition payment deadlines: If you register:
06/03/2013 – 07/15/2013, payment is due
07/16/2013 – 07/30/2013, payment is due
07/31/2013 – 08/15/2013, payment is due
Fall 2013 registration statements may be viewed online via WebAdvisor on



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WAKE TECH WARN

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TEXT • EMAIL • VOICEMAIL



Visit: warn.waketech.edu

Say "Cheese!"

hy is this man smiling? He's excited about his studies, and he's preparing for a career doing something he loves!

Wake Tech offers degree, diploma, and certificate programs that can help you land a rewarding job, advance in your career, or lay the groundwork for further education. It's up to you! There are a variety of options, and skilled advisors and instructors can help you design the course that's right for you.

Call Wake Tech Admissions (919-866-5500) today and start smiling about your future! \blacksquare



Credentials Key:			
AA = Associate in Arts	AS = Associate in Science	AFA = Associate in Fine Arts	AAS = Associate in Applied Science
AGE = Associate in General Education	D = Diploma	C = Certificate	

Wake Tech Community College A-Z

Area of Study	Credentials offered	Prepares you for	*Salary Median/ Range	
Accounting*	AAS, D, C	Careers that involve analyzing, processing, and communicating information about financial operations; workplaces include accounting firms, businesses, banks, hospitals, school systems, and government agencies.	28,500 - 38,000	
Advertising and Graphic Design	AAS, C	Occupations in graphic design; job opportunities found in advertising agencies, graphic design studios, printing companies, department stores, manufacturing industries, newspapers, and businesses with in-house graphics operations.	26,100 - 74,700	
Air Conditioning, Heating, & Refrigeration	AAS, D, C	Employment as a technician trained to design, install, and service air conditioning, heating, and refrigeration equipment; work with resi- dential and light commercial systems, including start-up and preventive maintenance.	32,080 - 53,660	
Architectural Technology	AAS, C	Positions that involve the preparation of construction documents, including environmental and structural systems, materials and methods, and building codes; employment in the architectural, engineering, and construction professions.	25,000 - 40,000	
Associate, General Education*	AGE	General education with emphasis on intellectual growth and personal enrichment; can be tailored to student interests rather than to spe- cific technical or professional requirements.	N/A	
Associate in Arts*	AA			
Associate in Fine Arts: (Pre-Major: Art)	AFA			
Associate in Fine Arts: (Pre-Major: Music)	AFA	Transfer to a senior institution; Completion of course work is equivalent to the general education requirements for a bachelor's degree; awarded upon successful completion of 64 hours, including the minimum required in specific curriculums.	N/A	
Associate in Science	AS			
Associate in Science: (Pre-Major: Engineering)	AS			
Automotive Systems Technology	AAS	Employment as an automotive services technician; workplaces include car dealerships, repair shops, and other automotive service organi- zations; eligibility to take Automotive Service Excellence (ASE) exam.	32,291 - 46,701	
	Occupations including baking/pastry assistant or assistant pastry chef in restaurants, hotels, independent bakeries and pastry shops; opportunities in entrepreneurship or for advancement to pastry chef, cake designer, or bakery manager.	24,349 - 41,459		
Basic Law Enforcement Training	C	Employment as an entry-level law enforcement officer with state, county, or municipal governments, or with private enterprise.	34,410 - 56,360	
BioPharmaceutical Technology	AAS, C	Careers in pharmaceutical manufacturing, chemical quality assurance, microbiological quality assurance, product inspection, documenta- tion review, manufacturing, and product/process validation.	24,500 - 62,300	
Business Administration	AAS, C	Professions in business settings involving marketing, sales, customer service, finance, human resources, and/or business management in small, medium, and large organizations in a global economy.	31,045 - 54,713	
Business Administration/ Human Resources Management*	AAS, C	Positions in human resources departments including recruitment, training, and human resources development; work in public, private, profit and non-profit organizations in a global economy.	39,109 - 72,092	
Business Analytics	AAS, C	A career as a business analyst with the ability to review, analyze and propose methodologies which help firms increase profitability in diverse industries including health care, marketing, information technology and finance.	35,000 - 60,000	
Civil Engineering Technology	AAS, C	A position as an office or field technician involved in construction management, site planning, construction layout, site inspections or materials testing; employment in public and private sectors of the engineering and construction industry.	26,800 - 66,700	

Area of Study	Credentials offered	Prepares you for	*Salary Median/ Range
Computed Tomography - CT	C	Occupations involving skilled use of specialized equipment to visualize cross-sectional anatomical structures and aid physicians; eligibility for the American Registry of Radiologic Technologists testing. (Advanced-Level)	40,000 - 62,000
Computer Engineering Technology	AAS, C	Jobs consisting of installing, servicing, and maintaining computers, peripherals, networks, and computer-controlled equipment; special- ties include electronics technology, computer networks, server maintenance, and programming; graduates may qualify for certification in electronics, computers, or networks.	26,600 - 70,800
Computer Information Technology**	AAS, C	Careers in systems maintenance, troubleshooting, support, training, business applications design and implementation; opportunities for advancement and skill building, often through employer-sponsored training.	24,230 - 75,071
Computer Programming**	AAS, C	Employment as a computer programmer, analyst, software developer, computer operator, systems technician, database specialist, software specialist, or information systems manager in business, industry, or government agencies.	40,100 - 69,600
Computer Technology Integration - Data Storage & Virtualization	AAS	Industry-specific certification exams; Careers in computer technology involving datacenter technologies, virtualization methods, and large volume storage centers; work as designers, testers, developers, or support technicians in organizations which rely on computer systems to design and manage information.	35,000 - 85,000
Construction Management Technology	AAS, C	Job opportunities including construction project manager, superintendent, foreman, or estimator in the residential or commercial con- struction industry.	34,253 - 53,257
Cosmetology	AAS, D	Careers in cosmetology, providing professional imaging, hair design, chemical processes, skin care, and nail care in salons and spas; graduates qualify to sit for the State Board of Cosmetic Arts exam.	24,060 - 47,909
Criminal Justice Technology	AAS, C	Professions in law enforcement, corrections, and security fields; positions include police officer, deputy sheriff, county detention officer, state trooper, parole surveillance officer, correctional officer, and loss prevention specialist.	32,508 - 56,319
Criminal Justice Technology/Latent Evidence	AAS, C	Employment as a crime scene technician/processor (first responder) with skills in collection and preservation of evidence, sketching crime scenes with CAD software, and analysis, lifting, classification, and preservation of fingerprints.	34,410 - 56,360
Culinary Arts	AAS, D, C	Employment as a trained professional in food service; entry-level positions with potential advancement to sous-chef, executive chef, or food service manager in restaurants, hotels, resorts, and catering companies, or business owner; American Culinary Federation certification is available to graduates.	22,277 - 42,182
Database Management	AAS, C	Jobs in administrative, development, or data warehousing; positions include database analyst, specialist, administrator, .NET developer, or web application developer.	39,900 - 69,700
Dental Assisting	D	Career classification as a DA II by the NC State Board of Dental Examiners, eligibility to take the Dental Assisting National Board Examination to become a Certified Dental Assistant (CDA); employment in dental offices, public health dental clinics, and dental schools.	29,226 - 42,328
Dental Hygiene	AAS	Professions involving the assessment, planning, and implementation of dental hygiene for individuals; eligibility to take the state/regional and national examinations for licensure; work in dental offices, clinics, public health agencies, industry, and educational institutions.	50,713 - 69,413
Diploma in Arts*	AA Transfer Diploma	Transfer to a senior institution; Completion of course work is equivalent to the core general education requirements for a bachelor's degree; awarded upon successful completion of 44 hours.	N/A
Diploma in Science	AS Transfer Diploma	Transfer to a senior institution; Completion of course work is equivalent to the core general education requirements for a bachelor's degree; awarded upon successful completion of 44 hours.	N/A
Early Childhood Education	AAS, D, C	Professions working with children in learning environments including family child care homes, preschools, public and private schools, recreational centers, Head Start programs, child development programs, and programs for school-aged children.	20,300 - 45,300
Electrical Systems Technology	AAS, D, C	Positions in the electrical profession, assisting in the layout, installation, and maintenance of electrical systems in residential, commercial, and industrial facilities.	33,363 - 52,146
Electronics Engineering Technology	AAS, C	Occupations designing, building, installing, testing, troubleshooting, and repairing electronic components and systems; positions include electronics engineering technician, field service technician, maintenance technician, or production control technician.	32,500 - 78,600
Emergency Medical Science	AAS	Employment as a paramedic, with knowledge and skills in basic and advanced life support; eligibility for both state and national certifica- tion exams; workplaces include fire and rescue agencies, air medical services, hospitals, urgent care centers, and physician's offices.	33,900 - 49,989
Environmental Science Technology	AAS, C	Jobs involving biological and chemical laboratory testing and analysis of environmental samples for the health and safety of people and the ecosystem; positions in water treatment, safety, hazardous waste and site remediation, and environmental education and awareness.	26,600 - 68,500
Esthetics	C	Performing skin care, makeup application, scientific manipulations, and electrical applications; work environments include day spas, salons, medical practices, cruise ships and destination resorts.	24,300 - 36,000
Fire Protection Technology	AAS, C	Careers in fire protection and safety, with governmental agencies, industrial firms, insurance rating organizations, and municipal fire departments. Program also serves as a basis for continued education toward management positions.	30,000 - 40,000
Global Logistics Technology	AAS, C	Logistics careers including entry-level purchasing, logistics analyst, distribution supervisor, export coordinator, transportation scheduler; employers include government agencies, manufacturing, retail, and service organizations	31,000 - 50,000
Health and Fitness	AAS	Positions in health and wellness programs in commericial fitness clubs, business, industry, YMCAs/YWCAs, parks, recreation, and other organizations with exercise & fitness programs.	31,000 - 63,800
Heavy Equipment and Transport Technology	AAS, D, C	Jobs in vehicle repair businesses; entry-level troubleshooting and repair of medium- and heavy-duty vehicles, including repair of engines, electrical and hydraulic systems, transmissions, brakes, and steering/suspension systems.	26,215 - 43,160
Heavy Equipment and Transport Technology: Agricultural Systems	AAS	Occupations involving troubleshooting and repair of agricultural equipment, including farm tractors, planters, sprayers, and harvesters; entry-level employment in agricultural systems equipment repair businesses.	23,808 - 38,450
Heavy Equipment and Transport Technology: Construction Equipment	AAS	Employment in construction equipment systems troubleshooting and repair; work on equipment including dozers, scrapers, loaders, and forklifts; entry-level employment in construction equipment repair businesses.	23,485 - 39,582
Hospitality Management	AAS, D, C	Careers in the food and lodging industry including front office, reservations, housekeeping, purchasing, dining room, and marketing; entry-level, supervisory and managerial employment in hotels, motels, resorts, inns, restaurants, and clubs.	28,640 - 51,030

Area of Study	Credentials offered	Prepares you for	*Salary Median/ Range
Human Services Technology	AAS	Entry-level positions in institutions and agencies that provide social, community, and educational services, including mental health, child care, rehabilitation, and education.	28,850 - 46,080
Human Services Technology/Substance Abuse	AAS, C	Employment as substance abuse counselors, DWI counselors, halfway house staff, residential facility employees, and substance abuse education specialists in facilities that provide these services.	38,520 - 60,000
Industrial Engineering Technology*	AAS, C	Positions developing and improving integrated systems involving people, materials, equipment, and information; careers include industrial engineering technician, quality assurance technician, supervisor, and positions that aid in efficiency in multiple industries.	29,126 - 75,586
Information Systems Security	AAS, C	Employment as security administrator who utilizes networking technologies, intrusion detection, security administration, and industry best practices to protect data communications; eligibility to pursue security certification.	46,838 - 105,750
Interior Design	AAS	Careers in commercial and residential interior design, set design, and/or showroom design, with training in professional practices, aes- thetic principles, computer-aided design, color theory, and business practices.	20,000 - 40,000
Landscape Architecture Technology	AAS, C	Occupation as a landscape architecture technician in landscape design, construction, and architecture businesses; opportunities for advancement in large-scale site design, supervision, and in residential landscape design.	20,000 - 40,000
Lateral Entry Teaching	C	Lateral Entry Teaching in NC Public Schools at the middle- or high-school level; program consists of coursework needed to become licensed by the NC Department of Instruction. Applicants have a Bachelor's Degree and meet additional criteria.	37,710 - 41,760
Magnetic Resonance Imaging (MRI)	D	Employment as an MRI technologist who uses magnetic energy fields to produce images of the human body; eligibility to take the American Registry of Radiologic Technologists (ARRT) examination for certification and registration; employment in hospitals, physicians' offices, and research facilities.	40,000 - 65,000
Mechanical Drafting Technology	AAS, D, C	Careers involving the use of computer applications to produce drawings of mechanical parts, mechanisms, and components of mechani- cal systems; employment in mechanical manufacturing, fabrication, research and development, and service industries.	29,532 - 51,139
Mechanical Engineering Technology**	AAS, C	Employment as a mechanical technician, assisting in the design, development, testing, and repair of mechanical equipment for manufac- turing, fabrication, research and development; careers involving skills to design, invent, and troubleshoot products.	31,978 - 71,482
Medical Assisting	AAS, D	A career as a health care professional, qualified to perform administrative, clinical, and laboratory procedures; employment in physi- cians' offices, health maintenance organizations, health departments, and hospitals. Graduates may be eligible to sit for the American Association of Medical Assistants Certification Examination - CMA (AAMA).	29,618 - 35,914
Medical Laboratory Technology	AAS	Jobs performing clinical laboratory procedures used in the diagnosis and treatment of disease; eligibility for National Certification exami- nation by the Board of Certification of the American Society for Clinical Pathology; employment in hospitals, medical offices, reference laboratories, industry and research facilities.	36,500 - 55,500
Medical Office Administration*	AAS, D, C	Medical administrative support positions including medical records clerk, insurance specialist, patient services representative, and tran- scriptionist; workplaces include healthcare facilities, insurance billing offices, labs, and manufacturers of medical equipment.	25,000 - 36,400
Networking Technology	AAS, C	Positions supporting local- and wide-area networks; employment as local-area network manager, network operator, network analyst, or network technician; eligibility to take certification examinations for various network products.	35,088 - 98,640
Nursing, Associate Degree	AAS	A career as a registered nurse upon successful completion of the National Council Licensure Exam (NCLEX); workplaces include hospitals, long-term care facilities, clinics, physicians' offices, industry, and community agencies.	46,007 - 69,421
Office Administration*	AAS, D, C	Professions in entry-level to middle management administrative support, responding to the demands of a dynamic, computerized work- place; employment opportunities in business, government, and industry.	28,500 - 43,430
Office Administration/ Legal*	C	Administrative positions in private legal practices involving real estate and estate planning, corporate legal departments, and city, state, and federal government offices.	28,500 - 35,000
Pharmacy Technology	AAS, D	Employment as pharmacy technicians who assist licensed pharmacists; work in hospitals, community and specialty pharmacies including outpatient IV compounding, long-term care, and medication therapy management pharmacies; eligibility to take national exam to become Certified Pharmacy Technicians.	20,310 - 61,649
Phlebotomy	C	Careers in the field of phlebotomy, obtaining and transporting blood and other specimens for the purpose of laboratory analysis; eligibility for national certification as a phlebotomy technician; work in hospitals, clinics, laboratories, and other health care settings	17,500 - 27,000
Plumbing	D,C	Jobs assisting with the installation and repair of plumbing systems in residential and small commercial buildings; employment with main- tenance companies, plumbing contractors, and parts suppliers.	26,095 - 42,393
Radiography	AAS	Employment as a health care professional who uses radiation to produce images of the human body; work in hospitals, clinics, physicians' offices, or industrial settings; eligibility to take the American Registry of Radiologic Technologists' national exam for certification.	43,649 - 63,610
Simulation and Game Development	AAS, D, C	Careers as designers, artists, animators, programmers, testers, quality assurance analysts, engineers or administrators in the entertain- ment industry, health care, education, corporate training, and government agencies.	40,100 - 78,000
Surgical Technology	D	Employment as a skilled member of a surgical team; job opportunities in labor and delivery, emergency, inpatient/outpatient surgery cen- ters, dialysis units, and physicians' offices.	33,925 - 43,807
Surveying Technology	AAS	A Position as a survey crew chief, instrument operator, or office technician/CAD operator; involved in construction, GPS, boundary and topographic surveying and mapping; employment in the public and private sectors of the surveying, engineering or construction industry.	29,600 - 53,000
Therapeutic Massage	D	Occupations providing client care through therapeutic massage; workplaces include medical practices, athletic settings, spas, and private practices; eligibility to take the MBLEx and apply for a North Carolina license.	23,339 - 51,876
Web Technologies*	AAS, D, C	Careers using distributed computing to disseminate and collect information via the Web; employment as designers, administrators, or developers in web applications, websites, and related areas of distributed computing.	38,000 - 90,000
Welding Technology	D,C	Jobs in the welding and metalworking industry; employment as an entry-level technician in construction, manufacturing, fabrication, sales, and quality control environments.	34,720 - 52,000

Sources: U.S. Department of Labor, www.bls.gov; www.salary.com, www.cbsalary.com, www.naceweb.org, and employer surveys. Salaries may vary based on experience, education, and location. * Also available online **Also available as hybrid

The Ripple Effect Grows Throughout the Community



Giving that goes a long way.

ake Tech is generating a really impressive "ripple effect!" The Ripple Effect is the name of the major gifts campaign the college launched last year,

and it has raised more than \$11.6 million so far! The funds support scholarships, new technology, and faculty and staff innovation. The campaign – Wake Tech's largest-ever fundraising initiative – is a response to record-breaking enrollment and unprecedented demand for the education and training programs the college provides.

For more than a year, the Triangle's corporate and community leaders, educators, and benefactors worked behind the scenes to build support for the campaign. In February, those leaders helped the college launch the public phase of The Ripple Effect with a special Wake Tech 50th anniversary celebration at the Angus Barn in Raleigh. There, they announced that the campaign had surpassed its initial goal of \$10



Dawn Downey



million and set a new one, \$12.5 million.

Financial contributions and in-kind gifts are making The Ripple Effect campaign a success. Companies such as ABB, Clark Nexsen, Wells Fargo, Bank of America, Skanska, BB&T, Captrust, Little Diversified Architectural Consulting, and Bob Barker Company have made generous pledges. Global technology giant Lenovo is another. The world's second-largest PC manufacturer recently donated \$25,000 worth of new computer equipment to the college, including 30 laptops, seven ThinkPad tablets and 44 head phones. Some of the laptops are being used in a mobile computer lab that visits community sites. With its global headquarters in Morrisville, Lenovo has been an avid supporter of Wake Tech since 2007.

Wake Tech employees are also are riding The Ripple Effect wave. So far, 80% of college employees have contributed, which is an all-time record!

A "ripple effect" occurs when Wake Tech graduates improve their lives and the lives of their families and communities through education. The impact ultimately fuels economic growth for the entire region. Dawn Downey knows about that impact. The 33-year-old received a \$1,000 scholarship that made attending Wake Tech more affordable. "The scholarship reduced my student loans so I don't have as much debt – and allowed me to better focus on my studies." Dawn was overjoyed when she was selected. "It was the first time I had ever gotten a scholarship and it was a huge confidence booster." That pat on the back paid off. She graduated in May with an Associate in Arts degree and is headed to ECU to pursue a bachelor's degree in Business Administration. Dawn is also determined to pay it forward: "I talk to my classmates about setting goals and achieving them. I want other people to experience the same success that I have." That's what The Ripple Effect is all about! You, too, can start a "ripple" at therippleeffectcampaign.org. ■



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Wake Tech now offers two Associate in Fine Arts degrees.

Both degrees provide a comprehensive and highly-personalized education with the core courses necessary to transfer to a four-year institution. Enroll today and get hands-on, real-life experience essential for success in the academic and professional world of the fine arts. Scholarships are available. **AFA in Music** Includes music theory, ear training, class piano, applied lessons and ensemble for students wishing to transfer to a four-year college or university to complete a bachelor's degree in music.

AFA in Visual Art Allows students to accomplish their foundations in art while completing core academic curriculum for transfer into a bachelor's degree program in fine arts, art education or art history or design.



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