

Wake Technical Community College

Spring 2015 • Volume 8 • Number 1

CareerFocus™

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Building a Legacy:

Wake Tech Celebrates as a New Athletics Logo Takes Flight



Whether on hardwood floors, grassy fields, or manicured greens, Wake Tech athletes are building a reputation for outstanding sportsmanship and student success. Six years since the athletics program's inception, our teams are soaring, with some impressive accomplishments. In 2014, the men's basketball team made it to the NJCAA Division II national tournament and finished fourth. The women's volleyball had one of the best seasons in their history, and even claimed first place in the MC Raptors Tournament in Maryland! Another first: a former Wake Tech athlete has gone pro: soccer star Nazmi Albadawi is now a midfielder for the Triangle's professional soccer team, the Carolina Railhawks.

To acknowledge student athletes' hard work as well as their commitment to the classroom, athletics leaders decided it was time for a new look. They wanted to create a new logo that would serve as a centerpiece and showcase the teams' energy and attitude. After months of fine-tuning the details, Wake Tech Athletics along with the college's

Creative Services team unveiled the image of Talon, the Eagle. "The new, updated image is a stronger, more iconic representation of our teams and our school spirit," says Athletics Director Barry Street. "It's an investment in the future, because it will set the direction for the next generation of Wake Tech Eagles."

With the spring season starting, many more "firsts" are about to be claimed. Baseball, softball, and golf teams have been practicing during the off season, and they're ready to add to Wake Tech's record of successes. For more information on game schedules, visit athletics.waketech.edu. You can also find Wake Tech Athletics on Facebook and Twitter: @waketechsports.



Help Talon "spread his wings!" Cut out the image below and place it on your door, window, computer monitor, or any other visible place. You never know where this eagle will land! Tweet your photos using the hashtag

#Talonsighting. Random pics will receive prizes!

Go Eagles!

Cut out the image below



Courtesy Carolina Railhawks

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™

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put your dreams of a brighter future on hold?

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On the cover:

Twenty-six year old Ashley DeFabrizio is taking Web Technologies courses as she pursues a degree in Advertising and Graphic Design. The 2005 Fuquay-Varina High School graduate believes that learning how technology works will be extremely helpful in her future career.



On the go?

Read CareerFocus anytime on your mobile device, computer or tablet at

waketech.mycareerfocus.org



From the President

Welcome to Career Focus!

With mobile communications technology evolving before our eyes, it's a given that careers of all kinds will require more and more advanced technical knowledge and skills. Wake Tech's degree, diploma, and certificate programs in computer technologies prepare graduates for the high-tech workplace and offer options for customizing educational pathways.

Wake Tech has programs for every interest – find one that fits yours! Our programs are convenient, as are our locations. Our newest location, the Beltline Education Center, is the new home to our Career and College Readiness program, offering High School Equivalency Preparation (GED), English as a Second Language, and other basic skills classes, and we have big plans for its future. (see back cover)

And don't forget: You can take many of our classes online! In fact, Wake Tech is now the largest provider of online classes in North Carolina.

Embrace your future – start today!

Dr. Stephen C. Scott
President

A Worldwide Web of Opportunities

Visit Wake Tech's website and you'll find a wealth of information – courses and programs, admissions procedures, college news and events, student success stories, and much more. Websites are a must these days for educational institutions, businesses, government agencies, and organizations of all kinds. A website is an organization's public face, its presence on the Web. It can be designed to sell a product or convey information to the public, or it can be personalized according to individual interests. Most websites today are dynamic, including multimedia and interactive content, and most have been optimized for mobile devices.



Web development has been a growing field for years, but it has grown exponentially in the past few, according to Alison Consol, department head for Web Technologies. "A lot of businesses had become complacent about their

websites," Consol says. "As the economy has picked up, technology has continued to evolve, and user expectations have changed. Businesses are realizing that they need to refresh their presence on the Web, and be mobile ready."

.....
"You need to have a creative vision, and the technical knowledge to see that vision through."

– Instructor Nicolas D'Agata

Rachel Sheffield



Students are exposed to the latest in technologies and applications:

- HTML, XHTML, HTML5
- CSS/CSS3
- Web design principles
- Mobile site design
- Javascript
- JQuery
- ASP.NET
- PHP
- MySQL
- Photoshop
- Flash/Edge Animate
- Dreamweaver
- Internet marketing, SEO and analytics
- WordPress
- Drupal
- iOS and Android application development

Seth Rhodes



Wake Tech's Web Technologies program has two tracks: web design and web development: web design focuses on the look of the website, while web development focuses more on the programming that brings the visual appeal to life. Blake Callens, founder of Raleigh Entrepreneurial Acceleration Lab (REAL) and a member of the Web Technologies Advisory Committee calls Wake Tech's program the "real deal." In a recent article Callens compared Wake Tech's web development program to those at NC State, UNC, and Duke: "...none of them has anywhere near the in depth study of web and mobile development that Wake Tech does." (exitevent.com/are-triangle-college-students-ready-for-todays-software-development-careers-14312.asp)

Student Rachel Sheffield already has a four-year degree in Arts Application, but she thinks her job prospects will improve with an associate's degree from Wake Tech. "I feel like this field is growing," she says. "Companies are always looking to do web development." Seth Rhodes started in a computer engineering program at UNC-Charlotte but realized it wasn't for him. He's enjoying Web Technologies so much more: "It's cool and challenging. It's gratifying because we get to tell stories on the web!"

What does it take to be a successful web developer? Instructor Nicolas D'Agata says it takes a balance of creativity and technical skill. "You need to have a creative vision, and the technical knowledge to see that vision through." Wake Tech's Web Technologies program is offered totally online, with some options for seated classes.

webtechnologies.waketech.edu

Wake Tech's Web Technologies program has two tracks: web design and web development.

Web Developers

(Bureau of Labor Statistics, 2012)

Median Pay	\$62,500
Entry-Level Education	Associate's degree
Number of jobs, 2012	141,400
Job Outlook, 2012-22	20% (faster than average)



Do something you love - Cosmetology! Now Offering Evening Classes

Vernon Malone College and Career Academy
2200 South Wilmington Street, Raleigh

Wake Tech's high-demand cosmetology program is now being offered at night, giving you the flexibility you need to pursue the career you want.

cosmetology.waketech.edu | 919-866-5500



Make an appointment for
Cosmetology or Esthetics services!
Haircuts | Hair color | Manicures | Pedicures | Facials



High Time for Your High School Credential

Has an incomplete high school education put your dreams of a brighter future on hold?

Does it seem you have too far to climb to get to where you want to be? Not having a high school diploma can keep you from realizing your college and career dreams, but it doesn't have to! Wake Tech can help you complete your education and put you on the fast track to a better future.

Start at your level

At 49, after nine years as a nurse aide, Rahab Kamau was daunted by the prospect of returning to school: "I thought I was too old and my English too poor," she says, "and I thought finishing my high school education would take too long." But Rahab knew she wanted more for her life. She enrolled in Wake Tech's ESL program in 2012 and

quickly transitioned into GED® test preparation classes. She graduated in 2013 and spoke at her graduation ceremony, telling classmates she'd had to swallow her pride in order to reach her goal. "I was nervous at first," she said, "but the instructors at Wake Tech start you at your level – whatever it is – and help you improve from there." Rahab is now working toward an associate's degree at Wake

Tech, hoping to pursue a career in nursing.

GED®: Not the only option

"GED testing is just one of the options Wake Tech offers to students who want to complete their high school education," said Faith Palmer, Director of Adult Secondary Education at Wake Tech. "Students who need five credits or fewer to graduate can opt for the Adult High School Diploma, or AHS." Enrollment in AHS depends on placement test scores, but once in, students can work at their own pace, with personalized assistance from instructors.

Free test preparation classes

Wake Tech's College & Career Readiness Division offers free preparation classes for both the GED® test and the Adult High School Diploma. There is a fee for the GED® test, but students who qualify

for the Adult High School program can earn an official high school diploma at no cost.

Start a new you in the New Year at a new location

Wake Tech's high school equivalency preparation programs are offered at the new Beltline Education Center, 3200 Bush Street, just north of the Raleigh Beltline (see back cover). The Beltline Education Center replaces the Adult Education Center (AEC) on Capital Boulevard.

For more information about Wake Tech's College & Career Readiness programs, visit ccr.waketech.edu or call 919-334-1500.

"I encourage everyone I meet to come to Wake Tech and just get started," says Rahab Kamau. "If you work hard and ask for help, you'll be amazed at how quickly you'll progress."



Grow a New Career

No need to wait—new classes begin weekly!

Register for continuing education non-credit classes online, anytime.

Career exploration, business resources, personal enrichment and more.

continue.waketech.edu | 919-866-5800

Kelly Markson, Ph.D.

2014 Instructor of the Year

Kelly Markson has accomplished a great deal in less than 10 years at Wake Tech, having reached full professor status and developed innovative methods of instruction. "I've redesigned lessons to make economics understandable, interesting, and engaging," says Markson. "My mission is to get students excited about learning economics!"

Title: Professor, Business Administration

Background: After my first 18 years on Long Island, I completed my undergraduate degree in history and attended Syracuse University for economics. During the blizzard of '93, we had 48 inches of snow, and my husband and I decided to move south! I finished my study of economics at NC State.

Education: Ph.D. in Economics from NC State University, MA in Economics from Syracuse University, and AB in History from Hamilton College.

Work experience: Professor, Business Administration, Wake Tech Community College; Program Associate, Gus A. Stavros Center; Advisor/Consultant, JW Pope Center for Higher Education; adjunct teaching at Wake Tech, Mount Olive College, and Peace College.

Honors, awards, and accomplishments: Full Professor ranking 2014; Instructor of the Year 2014; Excellence in Teaching Award,

Business & Public Services Technologies Division 2013-2014; Excellence in Teaching nominee 2014, 2012, 2010; Sloan Consortium Excellence in Online Teaching Award nominee 2014; JW Pope Center for Higher Education Policy Excellence in Teaching Economics Award 2013; John & Suanne Roueche Excellence Awards recipient 2014.

Personal/Family: I live in Cary, NC, with my wonderful husband Paul and two children, Hunter and Emma, and our dog, Bam Bam.

Hobbies: I enjoy volunteer work, jogging, biking, playing tennis, skiing, and taking the dog for long walks with my husband.

Best thing about Wake Tech is... that by promoting individual success we promote the success of our community. Wake Tech has served over half a million people, and has impacted half the population of Wake County. We change students' lives – seeing this first hand is one of the things that I love about teaching at Wake Tech.

Advice: Treat others – students, faculty, and administrators – as you would want to be treated. We are all on the same team with the same mission: to improve our students' lives by educating them.



Mort Congleton

2014 Staff Member of the Year

Mort Congleton has worked tirelessly to advance the mission of Wake Tech and advocate for community colleges. He has been a successful fundraiser and resource developer for Wake Tech. His efforts have opened doors and secured resources that have changed the lives of students, their families, and the community.

Title: Executive Vice President, College Development, Foundation, and Communications

Background: Originally from Greenville, North Carolina; served on the Raleigh City Council and joined Wake Tech as Executive Director of the Wake Tech Foundation in April of 2005.

Education: A.B., Geography; minor in Urban and Regional Planning, East Carolina University; Community Planning Training Program, NC Department of Local Affairs; M.A. courses in Urban Geography, East Carolina University.

Work experience: Before coming to Wake Tech, I served as Executive Director of the SPCA of Wake County; partner, CFO and VP of Marketing at Smith Sinnett Associates PA; Deputy Director of the NC Department of Human Resources, Division on Aging; Region M Council of Governments; Mid-East Economic Development Commission in Washington, NC.

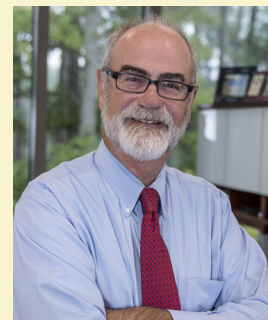
Honors, awards, and accomplishments: I am proud to have led the largest major gifts campaign in Wake Tech's history, which brought in \$17.6 million, and to have helped Wake Tech Foundation assets grow from \$2.5 million to more than \$12 million over 10 years. Staff Member of the Year 2014; Excellence in Service Award, College Development 2013-14; CRD-National Fundraising Professional of the Year 2014; President of CRD 2013; member, Foundation Board for the NC Community College System.

Personal/Family: Married to wife, Marna, who is a Wake Tech graduate and retired magistrate; two daughters, Michelle and DeEtte, and three grandchildren, Savannah, Lucien, and Eli.

Hobbies: I enjoy fishing, golf, and spending time at the North Carolina coast with my family.

Best thing about Wake Tech is its people – leaders and team members working together to better the college, improve the lives of students, and serve the community.

Advice: Be the best you can be! Take every opportunity to learn and grow, and immerse yourself totally in a cause that you are truly passionate about.



Student Spotlight: Rye Robinson

President, Wake Tech Student Government Association (SGA)

Rye Robinson started his college career with the end in mind. He plans to reach his goals by setting himself apart – starting with the completion of two Wake Tech degree programs and his involvement with several Wake Tech organizations. "Make it your goal to learn something new each day," says Robinson, "as Wake Tech will always have something new to offer you if you seek it out."

Current standing: Completing an Associate in Arts degree for university transfer (Spring 2015 graduation) while also working toward an AAS degree in Computer Programming. President, SGA; member, Wake Tech Board of Trustees; member, Debate Club; member, National Society of Leadership and Success; member, Phi Theta Kappa.

Special honors and awards: Scott Scholar 2014-2015

Educational plans: To transfer to NC State University and major in Business Administration, and to finish my Associate in Applied Science degree in Computer Programming at Wake Tech.

Career plans: A career in software implementation or software sales. In addition, I have a keen interest in app development.

Work experience: I got my first job working as a server at a continuing care facility, after volunteering there. I currently work at Dick's Sporting Goods while attending school.

Personal/Family: I live at home with my parents, younger brother, and dog, Charlie. Next year, I plan to live on campus at NC State University.

Hobbies: Movies, comics and superheroes, running and general exercise, and computers.

Best thing about Wake Tech is... the diversity of student backgrounds. At Wake Tech, you meet people going into countless career fields. I can't think of another place where someone could find a wider range of hardworking, determined students and staff from all different career fields and backgrounds than Wake Tech.

Advice for prospective/current Wake Tech students: Take every opportunity you can find here at Wake Tech and leave no stone unturned before you go. The more you can be involved, the better!



Changing our Regional Landscape: These Guys Do the Heavy Lifting



Construction is everywhere in Wake County: From schools to shopping centers to new homes and neighborhoods, the region continues to grow. Wake Tech's Northern Wake Campus is expanding, and the college will soon break ground on its RTP Campus in Morrisville. All that building makes our community a great place to live, but it requires a lot of heavy equipment – backhoes, excavators, bulldozers, and the like – and skilled workers who can operate it. That's why Wake Tech is launching a new Heavy Equipment Operator training program. It's among the first in the country to use simulators for training, and the only one of its kind in eastern North Carolina.

"Along with extensive knowledge of the enormous machines they're controlling, heavy equipment operators need keen hand-eye coordination, depth perception, and precision movements," said department head Ronnie Lowe. "These simulators will provide the hands-on training students need

to build those skills and become proficient."

Not only will simulators help build skills, they'll eliminate the need for costly (and time-consuming) equipment repairs or upgrades to outdated machinery. A simulated environment also eliminates the

risk of worker injury and damage to equipment during training – and is not subject to weather delays.

"Simulation is the future of higher education," said Dr. Scott, "and this program is another prime example. Simulated training is safer, more efficient, and much more cost-effective for businesses and taxpayers."

As with other programs, Wake Tech has worked with industry representatives to verify their needs and develop the program accordingly. With the average age of heavy equipment operators nearing 53, the construction industry is in need of a new pipeline of qualified workers. They're needed to fill jobs now, and they'll be needed in the future, as current workers start to retire. According to the Bureau of Labor

Statistics, job opportunities in the Triangle are expected to grow by 23% over the next six years.

Wake Tech is starting with a one-year diploma program, with plans to expand it to a two-year associate's degree. Local companies have agreed to provide Wake Tech students with hands-on training to round out their education. Wake Tech also offers a Heavy Equipment and Transport Technology program, which trains technicians to repair these vehicles. Students in that program are also looking forward to taking the Heavy Equipment Operator courses. "If I know how to operate the equipment," says student Ruby Hawley, "I'll know exactly what the operators are talking about when they complain that something's not working."



For more information, visit heavyequipment.waketech.edu



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Facts and Finds



Dim lighting sparks creativity

Want to encourage innovative thinking? Try lowering the lights. “Darkness increases freedom from constraints, which in turn promotes creativity,” according to German research published in the *Journal of Environmental Psychology*.

In a series of experiments, 114 University of Stuttgart students solved creative problems in different lighting. Those in dimmer environments solved significantly more problems, and said they felt less inhibited.

Even more intriguing, researchers found that just the mental image of dimmer lighting – by taking five minutes to describe being in the dark – improves creative performance.

Source: *Pacific Standard: The Science of Society*

Jog your memory

It’s well understood that exercise can trigger changes in the brain that improve thinking and mood. Dartmouth College research suggests that exercising before a test can also improve memory in most people.

The best way to boost your brain through exercise, says New York Times health writer Gretchen Reynolds, is not to run marathons or play high-impact sports. It’s simply to move. “Humans,” she says, “are born to stroll.”

“One of the biggest misconceptions is that exercise has to be hard,” Reynolds explains. “If you walk, your body registers that as motion, and you get all sorts of physiological changes that result in better health. Gardening counts as exercise.”

Source: *Well.blogs.nytimes.com*



On the prowl for a good job?

Searching for jobs and braving interviews can feel like a series of bad blind dates if you don’t know what you want out of an employer. To find a good fit, you need to first find your purpose. Ask yourself these questions:

- What job would I be excited to share with others?
- What gets me out of bed in the morning?
- If money weren’t an issue, what would I do with my life?
- What do I do best?
- What am I most curious about?

Source: “Why you can’t find a job you love,” *LouisEfron.com*



The writing on the wall

What if the key to success is... failure?

The brain is a “failure engine,” says Internet entrepreneur Jeff Stibel. “We are making far more failures than successes. But over time, we learn. That’s how we go from infants to babies to children to adults.”

What’s important about failure is remembering how it happened, says Stibel, who created a “Failure Wall” at his Dun & Bradstreet Credibility office. Employees write their failures on the wall for everyone to see. Some of the goof-ups are embarrassing, and some have cost the company money.

Besides serving as prevention against repeating the same mistakes, Stibel says, the confessions show that few failures are really as bad as people think. Getting it out in the open allows staff to collectively draw the lesson, deal with stress, and move onto better things

Source: *Inc.com*



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enews.waketech.edu

Interview Like a Pro

Many Wake Tech students look to Career and Employment Resources for suggestions on how to gain a competitive advantage by honing their interviewing skills. While some people may claim they can walk into an interview and “wing it,” this approach is highly overrated. Employers are looking for job seekers who demonstrate preparation, practice, and follow-up. As a result, it’s essential to learn strategies to prepare for interviews in order to gain a genuine competitive advantage over others interviewing for the same position. Here are three basic steps:

STEP 1 The first step in acing a job interview is to be informed and learn the best interview techniques possible. Wake Tech’s new online tool called “Big Interview” provides access to an exclusive multimedia curriculum with ten learning modules dedicated to every phase of the job interview.

STEP 2 The next step is to practice. Big Interview lets you practice nearly every possible interview question asked in over 20 industries using a webcam and system of on-demand mock interviews. With this tool, you can record your responses to a wide range of commonly asked interview questions and share with faculty, career specialists, or peers via email. These people, in turn, can assess your responses and also provide valuable feedback and suggestions for improvement.

STEP 3 The final step is to ace the interview and land a job! Don’t miss out on a great job due to lack of practice and preparation. Wake Tech students are encouraged to use Big Interview to build confidence by completing a practice interview.

For more information visit
careers.waketech.edu.

biginterview



Interview Tips

Source: monster.com

- **Be Concise**
Listen to the question and answer it concisely; don’t ramble.
- **Provide Examples**
Answer with specifics, not generalities.
- **Be Honest**
Don’t dance around difficult questions; if you don’t have a skill, say it.
- **Keep Your Guard Up**
Always maintain your professionalism.
- **Ask Great Questions**
Nothing impresses an employer more than questions that demonstrate you’ve done your homework about the company, and the job.



Creating Success
Hope • Opportunity • Jobs

Brewing Up a New Career

“I’m making good money doing something I enjoy. I have Wake Tech to thank for that!”
Justin Attelier

Like a lot of young adults, Justin Attelier thought he knew a thing or two about beer – but he decided to enroll in Wake Tech’s craft beer brewing class to learn more about the industry. Today, he’s cellarman at Big Boss Brewing Company in Raleigh! He’s in charge of a variety of tasks, including carbonating beer, labeling bottles, cleaning kegs, and handling orders from distributors.

Justin’s new career began just a few months ago, right after he completed the class in craft beer brewing, offered through Wake Tech’s Continuing Education Division. It’s taught at Wake Tech’s Northern Wake Campus – and on site at Big Boss. Justin enrolled out of interest, but to his delight, he was quickly hired part time by the brewing company and promoted to full time within a few weeks.

He says Wake Tech made his new career possible: “I didn’t have any experience in the industry, and now look where I am! The hands-on training made it possible for me to really see how things work rather than just reading about it in a book.”

Justin is excited about his future! He says there are ample opportunities for advancement in the industry, and he hopes to brew beer himself one day. “In my old jobs I was just going through the motions,” Justin says. “Now, I’m making good money doing something I enjoy. I have Wake Tech to thank for that!”

successstories.waketech.edu

6 Steps to Enroll at Wake Tech



- 1. Complete an online application**
admissions.waketech.edu
- 2. Apply for financial aid and veterans benefits**
financialaid.waketech.edu
- 3. Request transcript(s)**
Have 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
- 4. Schedule a placement test**
testingcenter.waketech.edu
- 5. Meet with an advisor**
advising.waketech.edu
- 6. Attend orientation**
orientation.waketech.edu

Now you're ready to register and pay for classes!

Browse class offerings and plan your schedule (User ID and password not required):

Visit **webadvisor.waketech.edu**

Click **Future Students**, then **Search for Curriculum Sections**

Step-by-step instructions are available at **wainfo.waketech.edu**

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 prompts

Visit **webadvisor.waketech.edu**, click **Log In**, enter your **Key Account User ID** and password, and click **Submit**

Select **Current Curriculum Students (Credit)**

Registration Information:
919-866-5700

Under the heading "Registration," click **Register for Sections** and follow the prompts to select your classes

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



WAKE TECH OPEN HOUSE

Learn about programs of study and resources available to you!

April 11, 2015

Main Campus
9101 Fayetteville Road, Raleigh

Perry Health Sciences Campus
2901 Holston Lane, Raleigh

April 25, 2015

Northern Wake Campus
6600 Louisburg Road, Raleigh

openhouse.waketech.edu | 919-866-5500



WAKE TECH
Lead the way.

Important Dates – Spring 2015 Semester

Semester dates	01/07/2015–05/08/2015
Registration period*	10/28/2014–01/05/2015
Last day to add a full 16-week class	01/13/2015
Last day to add a first 8-week mini-mester class	01/08/2015
Second mini-mester begins	03/05/2015
Last day to add a second 8-week mini-mester class	03/05/2015

**Students register by assigned priority*

Tuition Payment Deadlines

IF YOU REGISTER:	PAYMENT IS DUE:
10/28/2014–12/11/2014	12/12/2013
12/12/2014–01/06/2015	01/06/2015
01/07/2015 or later	same day you register

Questions about Admissions or Advising?

- Student Information: 919-866-5500
- Admissions:
Visit **admissions.waketech.edu** or email **admissions@waketech.edu**.
- Advising: Visit **advising.waketech.edu** or email **advising@waketech.edu**.

Questions about Registration?

- Registration Information:
919-866-5700
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High Five!

Follow your passion, explore your interests, consider your options – Wake Tech can provide the skills and credentials you need to land the job you want. Peruse the many programs of study below and find the one that's right for you. Our instructors and advisors are ready to help.

Call Wake Tech Admissions today (919-866-5500) and celebrate the start of your life-changing journey!



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.	30,605 - 43,599
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
Agricultural Systems Technology	AAS, D	Occupations involving troubleshooting and repair of agricultural equipment, including farm tractors, planters, sprayers, and harvesters; entry-level employment in agricultural systems equipment repair businesses.	24,645 - 47,598
Air Conditioning, Heating & Refrigeration Technology	AAS, D, C	Employment as a technician trained to design, install, and service air conditioning, heating, and refrigeration equipment; work with residential and light commercial systems, including start-up and preventive maintenance.	29,472 - 46,964
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.	26,434 - 47,319
Associate in Arts*	AA	Transfer to a senior institution; completion of coursework 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 curricula.	N/A
Associate in Fine Arts - Art	AFA		
Associate in Fine Arts - Music	AFA		
Associate in Science	AS		
Associate in Science - Engineering	AS		
Automotive Systems Technology	AAS	Employment as an automotive services technician; workplaces include car dealerships, repair shops, and other automotive service organizations; eligibility to take Automotive Service Excellence (ASE) exam.	26,379 - 40,157
Baking & Pastry Arts	AAS, D, C	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 and private enterprise.	34,750 - 56,980
Biopharmaceutical Technology	AAS, C	Careers in pharmaceutical manufacturing, chemical quality assurance, microbiological quality assurance, product inspection, documentation review, manufacturing, and product/process validation.	24,568 - 45,082
Business Administration	AAS, C	Professions in business settings involving marketing, sales, customer service, finance, or business management in small, medium, and large organizations in a global economy.	48,080 - 82,310
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.	34,400 - 54,000
Business Analytics	AAS, C	A career as a business analyst with the ability to analyze and propose methodologies which help firms increase profitability in diverse industries, including health care, marketing, information technology, and finance. Graduates qualify to sit for SAS certification exams.	35,000 - 60,000

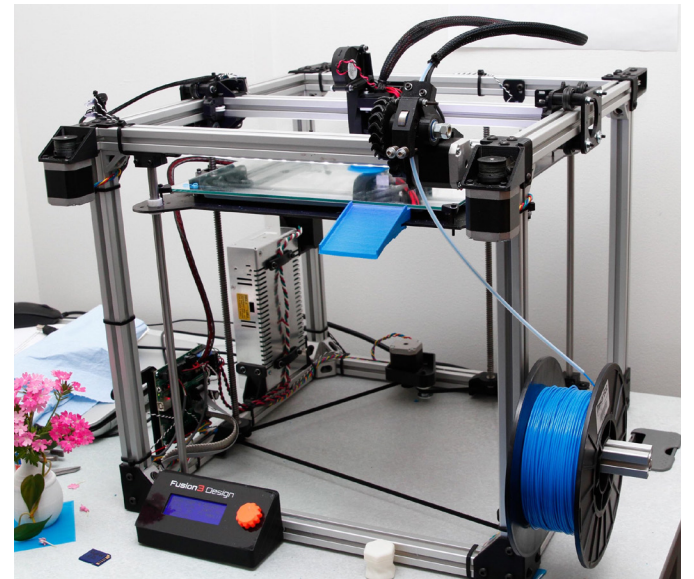
Area of Study	Credentials Offered	Prepares you for:	Salary Median/ Range
Civil Engineering Technology	AAS, C	A position as an office or field technician involved in construction management, site planning, construction layout, site inspections or materials testing; employment in public and private sectors of the engineering and construction industry.	26,892 - 59,321
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)	54,184 - 67,600
Computer Engineering Technology	AAS	Jobs consisting of installing, servicing, and maintaining computers, peripherals, networks; specialties include computer networks, server maintenance, and programming; graduates may qualify for certification in electronics, computers, or networks.	28,683 - 43,087
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, software tester, systems technician, database specialist, or information systems manager in business, industry, or government agencies.	42,500 - 118,000
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
Computer Technology Integration - Healthcare Business Informatics NEW!	AAS	Positions supporting healthcare organizations that implement, deploy, and support healthcare IT systems in U.S. clinical settings; eligibility to take certification exams for various healthcare network environments.	35,000 - 85,000
Construction Equipment Systems Technology	AAS, D, C	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.	25,000 - 45,000
Construction Management Technology	AAS, C	Job opportunities including construction project manager, superintendent, foreman, or estimator in the residential or commercial construction industry.	34,253 - 43,210
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 with potential advancement to sous-chef, executive chef, or manager in restaurants, resorts, or as a 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.	65,000 - 105,800
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, clinics, and dental schools.	31,740 - 50,544
Dental Hygiene	AAS	Professions involving the assessment, planning, implementation, and evaluation of dental hygiene services; eligibility to take the state/ regional and national exams for licensure; work in dental offices, public health agencies, and dental schools.	57,200 - 74,526
Diesel and Heavy Equipment Technology	AAS, D	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.	29,261 - 54,105
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.	28,000 - 49,282
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 - 66,470
Emergency Medical Science	AAS	Employment as a paramedic, with knowledge and skills in basic and advanced life support; eligibility for state and national certification exams; workplaces include fire and rescue agencies, air medical services, urgent care centers, and physician practices.	25,625 - 37,585
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.	26,794 - 43,875
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
Geomatics Technology	AAS, C	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 surveying, engineering, or construction industry.	33,483 - 48,913
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 Science	AAS	Positions in health and wellness programs in commercial fitness clubs, business, industry, YMCAs/YWCAs, parks, recreation, and other organizations with exercise & fitness programs.	24,960 - 41,600
Heavy Equipment Operator NEW!	D	Jobs that require driving, maneuvering, or operating heavy equipment, including backhoes, excavators, and dozers, which are used to construct roads, bridges, and buildings; employment in the construction industry or with government agencies.	34,750 - 48,480

Area of Study	Credentials Offered	Prepares you for:	Salary Median/ Range
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
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.	20,190 - 32,656
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.	23,500 - 34,750
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 - 58,410
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, aesthetic principles, computer-aided design, color theory, and business practices.	23,691 - 44,862
Landscape Architectural 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.	29,457 - 33,328
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 must 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 in health care facilities; eligibility to take the American Registry of Radiologic Technologists (ARRT) examination for certification and registration.	54,184 - 38,520
Mechanical Drafting Technology	AAS, D, C	Careers involving the use of computer applications to produce drawings of mechanical parts, mechanisms, and components of mechanical systems; employment in mechanical manufacturing, fabrication, research and development, and service industries.	38,551 - 48,186
Mechanical Engineering Technology**	AAS, C	Employment as a mechanical technician, assisting in the design, development, testing, and repair of mechanical equipment for manufacturing, fabrication, research and development; careers involving skills to design, invent, and troubleshoot products.	34,155 - 47,036
Medical Assisting	AAS, D	A career as a health care professional who performs administrative, clinical, and laboratory procedures in physicians' offices and hospitals; eligibility to sit for the American Association of Medical Assistants Certification Examination - CMA (AAMA).	24,154 -35,629
Medical Laboratory Technology	AAS	Careers performing laboratory procedures used in the diagnosis and treatment of disease; work in hospitals, laboratories, and research facilities; eligibility for National Certification exam by the Board of Certification of the American Society for Clinical Pathology.	35,692 - 57,720
Medical Office Administration*	AAS, D, C	Medical administrative support positions, including medical records clerk, insurance specialist, and patient services representative; 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 environments.	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.	46,508 - 68,430
Office Administration*	AAS, D, C	Professions in entry-level to middle management administrative support, responding to the demands of a dynamic, computerized workplace; 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, long-term care, and medication therapy management pharmacies; eligibility to take national exam to become Certified Pharmacy Technician.	20,100 - 31,387
Phlebotomy	C	Careers in the field of phlebotomy, obtaining and transporting blood and other specimens for laboratory analysis; eligibility for national certification as a phlebotomy technician; work in hospitals, clinics, laboratories, and other health care settings.	26,728 - 34,049
Plumbing	D,C	Jobs assisting with the installation and repair of plumbing systems in residential and small commercial buildings; employment with maintenance companies, plumbing contractors, and parts suppliers.	29,076 - 48,682
Radiography	AAS	A career as a radiographer, who uses radiation to produce images of the human body; work in hospitals, clinics, or physicians' offices; eligibility to take the American Registry of Radiologic Technologists' national exam for certification.	40,684 - 60,944
Simulation and Game Development	AAS, D, C	Careers as designers, artists, animators, programmers, testers, quality assurance analysts, engineers, or administrators in the entertainment 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 centers, dialysis units, and physicians' offices.	34,049 - 44,824
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.	30,534 - 54,600
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	AAS, D, C	Jobs in the welding and metalworking industry; employment as an entry-level technician in construction, manufacturing, fabrication, sales, and quality control environments.	30,447 - 40,255

Sources: U.S. Department of Labor, www.bls.gov; www.salary.com, www.cbsalary.com, www.nacweb.org, and employer surveys. Salaries may vary based on experience, education, and location.

* Also available online **Also available as hybrid

3-D Printing: The Future is Now



The official name is additive manufacturing, or AM, but you've probably heard it called 3-D printing. Wake Tech is ahead of the curve on this exciting technology, thanks to a generous grant from the National Science Foundation (NSF).

The NSF has awarded Wake Tech \$826,000 to integrate 3-D printing into several programs, including mechanical engineering, biology, and College/University Transfer. With 3-D printing, a digital model directs the layering of materials to create

three-dimensional objects of almost any shape, from everyday items to industrial parts. The technology has the potential to revolutionize all sorts of industries – from manufacturing, to prosthetics to aerospace

engineering. It could also someday be available for consumer use.

"Wake Tech is at the forefront of 3D printing technology," says Patricia Godin, Dean of Applied Engineering and Technologies. "This grant will allow the college to develop instruction and training and produce highly-skilled workers for this emerging industry."

The grant award from NSF is just one of dozens of grants Wake Tech received in 2013-14, the most successful year in the 10-year history of the college's Office of Sponsored Programs and Federal Relations. Grant awards for the year totaled more than \$4.4 million. Since the office was founded in 2004, Wake Tech has received more than \$25 million in grant funding, half of which has been awarded in the past three years alone.

Educational institutions count on grants to enhance programs and

services beyond the constraints of operating budgets. "Grants are vital resources for Wake Tech," says Richard Sullins, Dean of Sponsored Programs, "enabling us to have a much greater impact on the community and provide training and educational options that affect workers, families, industries, and our regional economy."

Grants like the one from the National Science Foundation allow Wake Tech to lead the way in developing teaching and training methods that provide highly-skilled workers to business and industry and keep Wake County competitive.

"Wake Tech is at the forefront of 3D printing technology. This grant will allow the college to develop instruction and training and produce highly-skilled workers for this emerging industry."

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Support
Wake Tech?**



"It was at Wake Tech that I realized I could apply myself and learn whatever I wanted to; I attribute a great deal of the success in my career with making the decision to attend Wake Tech."

Rachel Selisker, CPA
Fmr. Director of Finance, Quintiles

To find out how you can support the Wake Tech Foundation, visit
foundation.waketech.edu



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- English as a Second Language
- Adult Basic Education (ABE/TOPS) for students with intellectual disabilities

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