



Career & Technical Education

*A Guide to
Career & Technical Education at
South Garner High School.*

SOUTH GARNER HIGH SCHOOL CAREER & TECHNICAL EDUCATION COURSES

Courses with Associated Credentialing Opportunities or Certifications

Agriculture Mechanics II/Advanced Studies

- OSHA 10-Hour General Industry Certification (Agriculture)

Microsoft Word & PowerPoint

- Microsoft Office Specialist in Word
- Microsoft Office Specialist Expert in Word
- Microsoft Office Specialist in PowerPoint

Microsoft Excel

- Microsoft Office Specialist in Excel
- Microsoft Office Specialist Expert in Excel

Marketing Applications OR

Sports & Entertainment Marketing II Honors

- Customer Service & Sales

Food & Nutrition II

- ServSafe

Culinary Arts & Hospitality I & II

- ServSafe

Adobe Visual

- Adobe Photoshop
- Adobe Illustrator
- Adobe InDesign
- Adobe Premiere
- Adobe Dreamweaver

Early Childhood Education II

- North Carolina Early Childhood Credential (NCECC)

Health Science II

- OSHA 10-Hour General Industry Certification (Healthcare)

Interior Digital Applications

- Autodesk Certified User Revit

Career Technical Education Student Organizations

All students in career and technical programs have an opportunity to develop and extend their learnings through participation in active career and technical student organizations (CTSOs). Any student enrolled in a career and technical course is eligible for membership in the career and technical student organization associated with that program. The following CTSOs are available at South Garner High School.

- ✓ **FCCLA** (*Family, Career, and Community Leaders of America*) – Family & Consumer Sciences Students
- ✓ **FFA** (*Future Farmers of America*) – Agricultural Education Students
- ✓ **DECA** (*Association of Marketing Students*) – Marketing & Entrepreneurship Education Students
- ✓ **HOSA** (*Future Health Professions*) – Health Sciences Students
- ✓ **NTHS** (*National Technical Honor Society*) – Honor Society available to qualified CTE Students

Career and Technical Education (CTE) Course Articulation Agreement

The local Articulated Course Agreement between Wake County Public Schools and Wake Tech Community College allows students to earn community college course credit in their high school CTE classes.

To earn the community college credit for the CTE courses listed below the student must:

1. Earn a Grade of B or higher in the course
2. Earn a scaled score of A on the CTE post assessment (provided by NC DPI or an approved third party)
3. Enroll at Wake Tech within two years of their high school graduation date.

Program Area	WCPSS Number	HS Course Title	HS Teacher	CC Number	CC Course Title
Agricultural	AS31	Agricultural Mechanics I	Bracey	WLD-110	Cutting Processes
Agricultural	AP41	Horticulture I	Wehbie	HOR-160	Plant Materials
Business and Information	ME12	Entrepreneurship II (Honors)	Gardner	BUS-139	Entrepreneurship I
Business and Information	BF10	Principles of Business & Finance	Jones	BUS-125	Personal Finance
Family and Consumer Science Education	FC11	Principles of Family & Human Services	Shoemaker Bowden Mabry Holt	HSE-110 AND HSE-210	Introduction to Human Services AND Human Services Issues
Family and Consumer Science Education	FH22	Culinary Arts and Hospitality II	Smith	CUL-122 AND CUL-122A	Nutrition for Food Service AND Nutrition and Food Service Lab
Marketing	MM51 or MA52	Marketing or Marketing Applications	Allen Gardner Parks	HRM-240	Marketing for Hospitality

Career & Technical Education (CTE) Concentrator Pathways

Career & Technical Education (CTE) concentrator pathways are based on the **North Carolina Career Clusters**. To graduate with a CTE concentration, a student must complete the concentrator course within a cluster area: One Prerequisite Course and One Completer Course. Students are encouraged to take supplemental CTE courses in the cluster area also. Students can complete more than one CTE concentration.

Students who are classified as CTE concentrators are afforded the opportunity to take the ACT WorkKeys. The ACT WorkKeys is a job skills assessment system that helps employers select, hire, train, develop, and retain a high-performance workforce. Successful completion of ACT WorkKeys assessments in Applied Mathematics, Locating Information, and Reading for Information can lead to earning ACT's National Career Readiness Certificate (ACT NCRC), a portable credential earned by more than 2.3 million people across the United States.

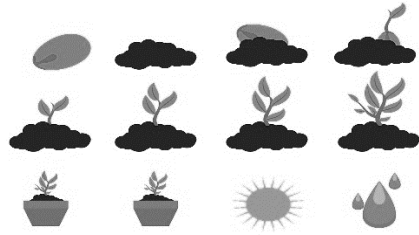
South Garner High School Career & Technical Education Available Pathways

Students must take the Concentrator Course in order to complete the pathway.



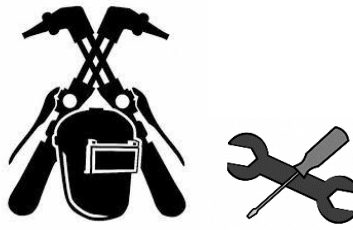
Agriculture, Food and Natural Resources

<i>Animal Science Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Animal Science I	<div style="text-align: center;"> Animal Science II – Small Animal </div>	CTE Advanced Studies CTE Internship	Agriscience Applications Microsoft Word & PowerPoint
Certifications National Career Readiness Certificate (after completion of Animal Science II) <i>Assessment taken during Senior Year</i>	Supplemental Core Courses Career & College Promise College Transfer	Supplemental Clubs & Organizations FFA National Technical Honor Society	
<u>Occupations Requiring Postsecondary Education</u>		<u>Occupations Requiring Baccalaureate Degree</u>	
Animal Caretaker-Poultry Manager Aquaculturalist Artificial Insemination Technician Dairy Producer Equine Manager Feed Sales Representative Livestock Buyer Livestock Inspector Livestock Producer Veterinary Assistant		Agricultural Educator Animal Nutritionist Livestock Geneticist Meat Science Researcher Physiologist Wildlife Biologist USDA Inspector Veterinarian	




Agriculture, Food and Natural Resources

<i>Plant Systems Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Horticulture I	→ Horticulture II	CTE Advanced Studies CTE Internship	Agriscience Applications Microsoft Word & PowerPoint
Certifications National Career Readiness Certificate (after completion of Horticulture II) <i>Assessment taken during Senior Year</i>	Supplemental Core Courses Career & College Promise College Transfer AP Biology	Supplemental Clubs & Organizations FFA National Technical Honor Society	
Occupations Requiring Postsecondary Education Agricultural Journalist Biotechnology Lab Technician Commodity Marketing Specialist Custom Hay/Silage Operator Farmer Golf Course Manager Grain Operation Superintendent Green House Manager Rancher Tree Surgeon		Occupations Requiring Baccalaureate Degree Agricultural Educator Bioinformatics Specialist Botanist Plant Breeder and Geneticist Plant Pathologist Soil and Water Specialist	



Agriculture, Food and Natural Resources

<i>Power, Structural, & Technical Systems Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Agricultural Mechanics I	 Agricultural Mechanics II	CTE Advanced Studies CTE Internship	Agriscience Applications Microsoft Word & PowerPoint
Certifications OSHA 10-Hour General Industry Certification (Agriculture) National Career Readiness Certificate (after completion of Agricultural Mechanics II) <i>Assessment taken during Senior Year</i>	Supplemental Core Courses Career & College Promise College Transfer Career & College Promise Welding Technology Career & College Promise Electronics Engineering Technology	Supplemental Clubs & Organizations FFA National Technical Honor Society	
<u>Occupations Requiring Postsecondary Education</u> Communication Technician Database Administrator Electronic Systems Technician Equipment/Parts Manager GPS Technician Heavy Equipment Maintenance Technician Information Lab Specialist Machine Operator Machinist Recycling Technician Remote Sensing Specialist Welder		<u>Occupations Requiring Baccalaureate Degree</u> Agricultural Applications Software Developer/Programmer Agricultural Educator Agricultural Engineer Waste Water Treatment Plant Operator	



Architecture & Construction

<i>Interior Design Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Interior Design I	Interior Digital Applications	CTE Advanced Studies CTE Internship	Principles of Family & Human Services Adobe Visual Design Microsoft Word & PowerPoint
Certifications National Career Readiness Certificate (after completion of Interior Digital Applications) <i>Assessment taken during Senior Year</i> Autodesk Certified User Revit	Supplemental Core Courses Career & College Promise College Transfer Career & College Promise Interior Design Career & College Promise Electronics Engineering Technology	Supplemental Clubs & Organizations SkillsUSA FCCLA National Technical Honor Society	
Interior Design Occupations			
Certified Kitchen Designers Corporate Designers Furniture Arrangers Healthcare Designers Sustainable Designers		Home Lighting Advisers Interior Decorators Kitchen and Bath Designers Kitchen Designers Universal Designers	



Arts, AV Technology, & Communications

<i>Adobe Academy Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Adobe Visual Design	Adobe Digital Design	CTE Advanced Studies CTE Internship	Microsoft Word & PowerPoint
Certifications Illustrator, InDesign, Photoshop, Dreamweaver & Premier National Career Readiness Certificate (after completion of Adobe Digital Design) <i>Assessment taken during Senior Year</i>	Supplemental Core Courses Career & College Promise College Transfer Career & College Promise Advertising & Graphic Design	Supplemental Clubs & Organizations DECA FBLA SkillsUSA National Technical Honor Society	
Adobe Related Occupations			
Art Director Artist Commercial Artist Commercial Photographer: Digital, Still, Video, Film Commercial/Residential and Home Furnishing Coordinator Computer Animator		Curator and Gallery Manager Fashion Designer Fashion Illustrator Graphic Designer Illustrator Interior Designer Textile Designer	



Arts, AV Technology, & Communications

<i>Game Art Design Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Digital Design & Animation I	Game Art Design	CTE Advanced Studies CTE Internship	Adobe Visual Design Adobe Digital Design Entrepreneurship I Microsoft Word & PowerPoint
Certifications National Career Readiness Certificate (after completion of Game Art Design) <i>Assessment taken during Senior Year</i>	Supplemental Core Courses Career & College Promise College Transfer Career & College Promise Introduction to Simulation and Game Development Visual Arts	Supplemental Clubs & Organizations National Technical Honor Society	
<u>Game Art Design Related Occupations</u>			
Interactive Multimedia Designer Senior Gamemaster Video Game Engineer Computer Video Game Designer Game Designer/Creative Director Lead Game Designer		Senior Game Designer Senior Environmental Artist Video Game Creator Video Game Developer Video Game Maker Video Game Programmer	



Business Management & Administration

<i>Entrepreneurship Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Entrepreneurship I	Entrepreneurship II	CTE Advanced Studies CTE Internship	Principles of Business and Finance Microsoft Word & PowerPoint Microsoft Excel Marketing
Certifications National Career Readiness Certificate (after completion of Entrepreneurship II) <i>Assessment taken during Senior Year</i>	Supplemental Core Courses Career & College Promise College Transfer Career & College Promise Business Administration: Entrepreneurship	Supplemental Clubs & Organizations DECA FBLA National Technical Honor Society	
Entrepreneurship Related Occupations			
Business Consultant Construction Manager Research and Development Not-for-Profit Fundraiser Teacher Recruiter Business Reporter Management Analysis		Social Media Manager Public Relations Manager Appraiser Financial Advisor Marketing Manager Web Developer Sales Manager Systems Analyst	



Business Management & Administration

<i>General Management Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Business Management I	Business Management II	CTE Advanced Studies CTE Internship	Principles of Business and Finance Microsoft Word & PowerPoint Microsoft Excel
Certifications	Supplemental Core Courses	Supplemental Clubs & Organizations	
National Career Readiness Certificate (after completion of Business Management II) <i>Assessment taken during Senior Year</i>	Career & College Promise College Transfer Career & College Promise Business Administration: Business Core	DECA FBLA National Technical Honor Society	
<u>Business Management Related Occupations</u>			
Administrative Assistant Advertising Sales Person Auditor Business Consultant Certified Public Accountant Corporate Trainer E-Commerce Analyst Entrepreneur Facilities Manager Finance Director		Investment Executive Marketing Analyst Medical Transcriptionist Office Manager OSHA/ADA Compliance Officer Personnel Recruiter Public Relations Manager Sales Representative Wholesale and Retail Buyer Human Resources Manager	



Health Science

<i>Healthcare Professional Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Health Science I	Health Science II	CTE Advanced Studies CTE Internship	Foundations of Health Science Microsoft Word & PowerPoint
Certifications OSHA 10-Hour Industry Certification (Healthcare) National Career Readiness Certificate (after completion of Health Science II) <i>Assessment taken during Senior Year</i>		Supplemental Core Courses Career & College Promise College Transfer Career & College Promise: Intro to Medical Assisting Career & College Promise: Nurse Aide Anatomy & Physiology	Supplemental Clubs & Organizations HOSA National Technical Honor Society
<u>Occupations Requiring Less Than A Bachelors Degree</u> Anesthesiologist Assistant Certified Nursing Assistant Clinical Medical Assistant Data Entry Coordinator Dental Assistant/Hygienist Dental Lab Technician EMT/Paramedic Home Health Aide Licensed Practical Nurse Massage Therapist Orthotist/Prosthetist Pharmacist/Pharmacy Technician Physical Therapist/Assistant Radiologic Technician Registered Nurse Respiratory Therapist		<u>Occupations Requiring Baccalaureate Degree</u> Athletic Trainer Audiologist Chiropractor Dentist Dietician Exercise Physiologist Nurse Practitioner Occupational Therapist Optometrist Physician (MD/DO) Physician's Assistant Psychologist Recreation Therapist Social Worker Speech Language Pathologist Veterinarian	



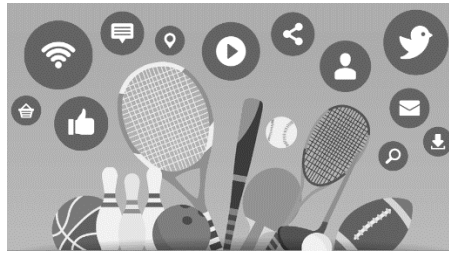
Health Science

<i>Biomedical Technology Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Health Science I	Biomedical Technology	CTE Advanced Studies CTE Internship	Foundations of Health Science Microsoft Word & PowerPoint
Certifications	Supplemental Core Courses	Supplemental Clubs & Organizations	
National Career Readiness Certificate (after completion of Biomedical Technology) <i>Assessment taken during Senior Year</i>	Career & College Promise College Transfer Career & College Promise: Biopharmaceutical Technology Anatomy & Physiology	HOSA National Technical Honor Society	
Biomedical Related Occupations			
Animal Biochemist Biologist Botanist Chemical Analyst Chemical Information Specialist Dietitian/Researcher Environmental Scientist Exercise Therapist Food and Drug Analyst Forensic Scientist Hospital Administrator		Occupational Therapist Oceanographer Optometrist Orthopedists Pharmacologist Physical Therapist Psychologist Surgeon Tissue and Transplant Coordinator Veterinarian/Lab Animal Care Zoologist	



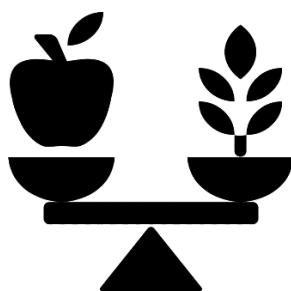
Hospitality & Tourism

<i>Culinary Arts Applications Career Pathway</i>				
Entry Course	Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Culinary Arts & Hospitality I	Culinary Arts & Hospitality II Applications	Culinary Arts & Hospitality III	CTE Advanced Studies CTE Internship	Culinary Arts & Hospitality IV Microsoft Word & PowerPoint
Certifications ServSafe National Career Readiness Certificate (after completion of Culinary Arts & Hospitality III) <i>Assessment taken during Senior Year</i>		Supplemental Core Courses Career & College Promise College Transfer		Supplemental Clubs & Organizations FCCLA National Technical Honor Society
Management Level Occupations Caterer Catering and Banquets Manager Executive Chef Food and Beverage Manager General Manager Kitchen Manager Maître d' Restaurant Owner Services Manager		Skill Level Occupations Baker Bartender Brewer Pastry and Specialty Chefs Restaurant Serve		Entry Level Occupations Banquet Server Banquet Set-Up Employee Bus Person Cocktail Server Counter Server Host Kitchen Steward Line Cook Restaurant Server Room Service Attendant




Hospitality & Tourism

<i>Sports & Entertainment Marketing Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Sports & Entertainment Marketing I	Sports & Entertainment Marketing II	CTE Advanced Studies CTE Internship	Microsoft Word & PowerPoint Microsoft Excel Marketing Entrepreneurship I
Certifications Customer Service & Sales Certification National Career Readiness Certificate (after completion of Sports & Entertainment Marketing II) <i>Assessment taken during Senior Year</i>	Supplemental Core Courses Career & College Promise College Transfer Career & College Promise: Hospitality Event Coordinator	Supplemental Clubs & Organizations DECA National Technical Honor Society	
Sports & Entertainment Marketing Related Occupations			
<u>Family Centers</u> <ul style="list-style-type: none"> • Manager • Equipment Operator • Maintenance Personnel <u>Fairs/Festivals</u> <ul style="list-style-type: none"> • Event Planner • Supervisor • Manager • Promotional Developer 		Museums/Zoos/ Aquariums Personnel Parks and Gardens Ranger Resort Trainer and Instructor Sports Promoter Theme Parks/Amusement Parks Personnel Ticket Vendor Club Personnel Facilities Manager	




Human Services

<i>Food & Nutrition Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Food & Nutrition I	 Food & Nutrition II	CTE Advanced Studies CTE Internship	Principles of Family and Human Services Microsoft Word & PowerPoint
Certifications ServSafe National Career Readiness Certificate (after completion of Food & Nutrition II) <i>Assessment taken during Senior Year</i>	Supplemental Core Courses Career & College Promise College Transfer	Supplemental Clubs & Organizations FCCLA National Technical Honor Society	
Management Level Occupations Caterer Catering and Banquets Manager Executive Chef Food and Beverage Manager General Manager Kitchen Manager Maître d' Restaurant Owner Services Manager	Skill Level Occupations Baker Bartender Brewer Pastry and Specialty Chefs Restaurant Serve	Entry Level Occupations Banquet Server Banquet Set-Up Employee Bus Person Cocktail Server Counter Server Host Kitchen Steward Line Cook Restaurant Server Room Service Attendant	



Human Services

<i>Early Childhood Development & Services Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Child Development	 Early Childhood Education I	Early Childhood Education II	Principles of Family and Human Services Microsoft Word & PowerPoint
Certifications CPR First Aid North Carolina Early Childhood Credential (NCECC) National Career Readiness Certificate (after completion of Early Childhood Education I) <i>Assessment taken during Senior Year</i>		Supplemental Core Courses Career & College Promise College Transfer Career & College Promise: Early Childhood	Supplemental Clubs & Organizations FCCLA National Technical Honor Society
<u>Occupations Requiring Less Than A Bachelors Degree</u> Childcare Assistant/Worker Nanny Teacher Assistant		<u>Occupations Requiring Baccalaureate Degree</u> Assistant Director, Childcare Facilities Director, Childcare Facilities Educator for Parents Elementary School Counselor Preschool Teacher	



Information Technology

<i>Python Programming Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Python Programming I	Python Programming II	CTE Advanced Studies CTE Internship	Microsoft Word & PowerPoint Microsoft Excel
Certifications	Supplemental Core Courses	Supplemental Clubs & Organizations	
National Career Readiness Certificate (after completion of Python Programming II) <i>Assessment taken during Senior Year</i>	Career & College Promise College Transfer	FBLA National Technical Honor Society	
<u>Programming Related Occupations</u>			
Applications Analyst Applications Engineer Business Analyst Computer Engineer Data Modeler Game Developer Operating System Designer/ Engineer Program Manager Programmer		Programmer Analyst Project Lead Software Applications Specialist Software Applications Tester Software Design Engineer Systems Administrator Systems Analyst Test Engineer Tester	



Marketing

<i>Marketing Management Career Pathway</i>			
Prerequisite Course	Concentrator Course	Career Pathway Major Courses	Supplemental CTE Courses
Marketing	Marketing Applications	CTE Advanced Studies CTE Internship	Principles of Business and Finance Adobe Visual Design Microsoft Word & PowerPoint Microsoft Excel
Certifications Customer Service & Sales Certification National Career Readiness Certificate (after Marketing Applications) <i>Assessment taken during Senior Year</i>	Supplemental Core Courses Career & College Promise College Transfer Career & College Promise: Business Analytics: Marketing Analytics	Supplemental Clubs & Organizations DECA National Technical Honor Society	
Marketing Related Occupations			
Administrative Support Representative Analyst Brand Manager CRM Manager Customer Satisfaction Manager Customer Service Representative Database Analyst Database Manager Director of Market Development Forecasting Manager		Frequency Marketing Specialist Interviewer Knowledge Management Specialist Marketing Services Manager Planning Analyst Product Planner Research Associate Research Project Manager Research Specialist/Manager Strategic Planner	