

CTE Director's
GUIDE
for
Career and Technical Education Licensure



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Contents

Introduction to GUIDE	3
CTE Teacher Education/Licensing Programs	4
Residency Licenses for CTE.....	5
CTE Restricted Licenses	5
Temporary Licenses.....	6
Reciprocity for Out of State Teacher Licenses.....	6
Eligibility for Pay for Experience.....	7
Adding a CTE License to a Continuing Professional License	8
Provisional Licenses in CTE Areas	9
Renewing a Continuing Professional License	9
Licenses Per Course	10
CTE Licenses, Route Options, & Requirements	11
License Area: Agricultural Education.....	12
License Area: Business, Finance, and Information Technology Education	13
License Area: Information Technology Education.....	16
License Area: Family and Consumer Sciences Education—General	18
License Area: Family and Consumer Sciences Education—Apparel	20
License Area: Family and Consumer Sciences Education—Child Development/Family Studies	21
License Area: Family and Consumer Sciences Education—Foods and Nutrition/Culinary Arts.....	22
License Area: Family and Consumer Sciences Education—Interior Design	24
License Area: Marketing Education.....	29
License Area: Technology Engineering and Design Education—Sci Vis and Game Art.....	32
License Area: Trade and Industrial Education—Collision Repair	33
License Area: Trade and Industrial Education—Automotive Service.....	34
License Area: Trade and Industrial Education—Construction	35
License Area: Trade and Industrial Education—Drafting	37
License Area: Trade and Industrial Education—Welding.....	38
License Area: Trade and Industrial Education—Manufacturing	39
License Area: Trade and Industrial Education—Digital Media.....	41
License Area: Trade and Industrial Education—Public Safety.....	42
CTE Support Services Licensing	43

Introduction to GUIDE

The purpose of this GUIDE is to assist local CTE Directors in:

- understanding the licensing options available to Career and Technical Education educators,
- understanding how to assist educators in adding licensure areas,
- understanding which courses may be taught with each license.

CTE educators, like all educators, follow licensing requirements approved by the NC State Board of Education in policy [LICN-001](#). CTE educators may be eligible for an Initial Professional License by:

- graduating a teacher education program, OR
- qualifying for a CTE Restricted License (*DPI Licensure refers to this as a provisional CTE license; program code 35;*), OR
- If they hold a bachelor's degree, CTE educators may also be eligible for a residency license.

Requirements for educators entering the profession by qualifying for an Initial Professional License in CTE Restricted License areas are different from residency. Major differences are the requirement of related work experience and related degree as well as the acceptance of associate degrees and high school diplomas in some CTE license areas. The CTE Licensure Policies and Procedures Manual referenced in [CTED-004](#) details licensure policy for CTE Restricted License areas. [LICN-001](#) allows potential educators to enter the profession by qualifying for a Residency License. The Residency section of this guide provides guidance on qualifying candidates for Residency licenses in CTE areas.

Some courses require specific industry credentials. In this GUIDE, there are sections on each license listing each course and required/suggested credentials or training. Contact information for CTE staff can be found at: <http://www.ncpublicschools.org/cte/directory/specialty>. Please contact staff for information related to required workshops or credentials.

Refer to the GUIDE each year for updates that will be effective in July to ensure the most recent information is being used to assess qualifications for licensure in CTE areas.

CTE Teacher Education/Licensing Programs

North Carolina public and private universities have teacher education programs in some CTE areas. Some also offer licensing programs in CTE areas. NCDPI's Educator Effectiveness Division provides a list of schools with [approved teacher education programs](#). See the grid below for CTE programs and licenses available in approved EPPs. [Visit the link for the most current information and additional details.](#)

Approved EPP	Agriculture Education	Business, Finance & Info Tech	Family & Consumer Science	Marketing Education	Technology Education	Trade & Industrial Education	Health Science Education
Appalachian State University	R, A, M*	R, A, M*	R, A, M, M*	R, A, M*	R, A, M*	R, A, M, M*	R, M* (all HS areas)
East Carolina University			R, A, M, M*				
NC A & T University	R, A, M	R, A, M	R, A, M		R, A, M	R, A, M	
NC Central University			R, A, M				
NC State University	R, A, M, D	R, A		R, A	R, A, M, D		
Gardner Webb University					A, M		
University of NC-Charlotte		R, M*		R, M*	R, M*		
Meredith College			A				
University of Mt. Olive	R, A						
Guilford Public Schools	R	R	R	R	R	R	
Central Carolina Teaching Initiative	R	R	R	R	R	R	

Key: R=Residency; A=Bachelors; M=Masters; M*=Masters Initial License Only; D=Doctoral

Residency Licenses for CTE

Per [LICN-001](#), an individual may be issued a one-year Residency License in a teaching area, with the option to renew twice within no longer than a 3-year period, if the individual meets all of the following requirements:

- (1) holds a minimum of a baccalaureate degree from a regionally accredited institution of higher education
- (2) has either completed 24 hours of coursework in the requested licensure area or passed the NCSBE-approved content area examination(s) for the requested licensure area;
- (3) is enrolled in a recognized educator preparation program (EPP), and;
- (4) meets all other requirements established by the NCSBE including completing preservice requirements prior to teaching.

[TCED-009](#) lists the EPP admission requirements which include a 2.7 GPA. The EPP must maintain a cohort average of 3.0 in order to maintain their status as an approved EPP. The EPP makes the decision to admit candidates to their approved licensure programs. A candidate with a GPA below 2.7 may have difficulty being admitted to an EPP.

If an individual fails to renew the Residency License for either the second or third year, the current Residency License will expire. Within three years of the effective date of the original Residency License, a Residency License may be reinstated at the request of an LEA if the following conditions are met: (1) The individual taught at least six calendar months during the year when he/she last held an active Residency License, and; (2) The individual is enrolled with an EPP, and; (3) The individual is employed as a teacher in an LEA.

CTE Restricted Licenses

CTE Restricted Licenses (program code 35) allow candidates to obtain an Initial Professional Educator license based primarily on the candidate's work experience. To qualify for an initial professional license via the CTE Restricted route, the candidate must meet the degree requirements and work experience requirements. Additionally, in some cases, credentials are required prior to teaching. Initial Professional Licenses obtained through the CTE Restricted License route result in a restricted Continuing Professional License. The license may add other CTE license areas, provided they are at the same academic level, but may not add areas outside of CTE. Under NC State Board of Education policy [CTED-004](#), the CTE Licensure Policies and Procedures Manual is policy. The manual provides detailed information for the CTE Restricted route such as:

- required degree level,
- examples of related degrees,
- examples of related work experience,
- number of years of work experience required for the CTE Restricted route,
- semester hours required for the license noting both required and elective courses,
- credentials required prior to teaching or before the expiration of the Initial Professional License and core academic competence requirements for educators pursuing licensure with a high school diploma,
- requirement of NCDPI Sponsored New Teacher Induction for this route.

Temporary Licenses

[LICN-001](#) allows LEAs to issue a **Permit to Teach** for a teaching assignment at the A-00 pay level to persons who hold at least a bachelor's degree from a regionally accredited institute of higher education, **have less than 18 hours in the subject area**, but who do not qualify for a license under any other approach. The permit to teach shall be valid for one year and may not be renewed. When an LEA requests a Permit to Teach, the LEA must document that no appropriately licensed professionals or persons who are eligible for a residency or lateral entry license are available to accept the position.

NCDPI may issue **Emergency Licenses** for a teaching assignment at the request of the LEA or charter school. The Emergency License is a one-year nonrenewable license issued to an individual who: 1) holds a bachelor's degree with 18 hours of coursework relevant to the requested licensure area but has not completed a recognized educator preparation program, and; 2) does not qualify for a Residency License. Applicants for an Emergency License shall meet all other requirements established by the NCSBE, including preservice training, prior to teaching. Emergency licenses qualify for pay based on related work experience.

Before requesting a Permit to Teach or an Emergency License, LEAs should also explore the CTE Restricted Route for licensing in CTE areas.

Reciprocity for Out of State Teacher Licenses

[LICN-001](#) provides policy on issuing North Carolina licenses to educators who hold a license in another state.

Out of state applicants who meet all of the following criteria may be issued a **Continuing Professional License**:

- are fully licensed in another state, **and**;
- have three or more years of experience in another state and have met comparable testing requirements in another state; **or**,
- have National Board Certification.

Individuals who hold an out-of-state teaching license or have completed an out-of-state educator preparation program and have fewer than three years of teaching experience may be granted an **Initial Professional License** if the following criteria are met:

- Successfully passed another state's comparable licensure exam (must meet or exceed the test developer's recommended passing score at the time the exam was taken); or,
- Attempt the NC required licensure exam in the first year of teaching and pass the exam before or during the second year of teaching. (See [LICN-003](#))

Eligibility for Pay for Experience

The NC Public Schools Salary Manual referenced in [SLRY-000](#) provides all salary eligibility rules. Salary for experience credit is subject to the level of education the teacher has completed. DPI recognizes one year for every year for a bachelor's degree; one year for every year minus two for an associate degree only; and one year for every year minus four for a high school diploma only.

All related work experience for pay purposes should be documented on DPI's Form NE Verification of Non-teaching Experience. ([PDF version](#)/[Word version](#))

Public Safety/Fire Fighter Instructors should include the name of the fire station, dates of employment, 40+ hours per week due to the 24/7 on call nature of the work recognized by the NC Office of the State Fire Marshall (NC OSFM), and the signature of the fire chief on the Form NE. If serving multiple fire stations, dates may not overlap. Do not use the word "volunteer" on any documentation. NC OSFM recognizes all fire fighter service as credible work experience.

National Board for Professional Teaching Standards (NBPTS) pay is not guaranteed for CTE Support Service Licenses. SPCs **DO NOT** qualify for NBPTS pay from state funds. CDCs with provisional licenses DO NOT qualify for NBPTS pay from state funds but can receive it when the provisional status is cleared. LEAs may consider using local funds to replace the NBPTS pay differential.

Adding a CTE License to a Continuing Professional License

[CTED-004](#) provides options for adding a CTE area to a Continuing Professional License.

- Any educator with a Continuing Professional License may add a CTE area however, educators with restricted continuing professional licenses in a CTE area, may add another CTE area if they hold the required degree level for the additional area.
- All requirements must be met before submitting the application to add the new area to the current license. Any one of the options below serves as sufficient evidence to add an area to a current Continuing Professional License:
 - 1) completing an NCSBE approved educator preparation program in the additional area; OR
 - 2) satisfying NCSBE approved testing requirements in the additional area; OR
 - 3) completing 24 semester hours in the subject area with a grade of “C” or better in each course; OR
 - 4) earning industry credentials required for the eligible license (*see licenses eligible for add on via this option in table below*); OR
 - 5) meeting eligibility criteria and completing requirements for the CTE Support Services license areas

License Area	License Number	Credential(s)
Health Science Education-RN	720	Registered Nurse
Health Science Education-Non-RN	721	A successful score on the ETS Praxis Exam 5551 (Health Education Specialist) as defined in LICN-003 in lieu of an industry credential OR NATBOC Certified Athletic Trainer
T & I-Collision Repair	74010	I-Car ProLevel II in the Educator Role
T & I-Automotive Service	74015	ALL of the following: ASE Brakes, ASE Electrical, ASE MLR, ASE Suspension & Steering
T & I-Construction	74026	ALL of the following: NCCER ICTP, NCCER “Your Role in Green Environment”, OSHA 10 Hour Construction Safety
T & I-Drafting	74070	ALL of the following: Certified SolidWorks Associate-Academic (CSWA-A) OR Autodesk Certified User AutoCAD, Autodesk Certified User Inventor, Autodesk Certified User Revit
T & I-Welding	74080	ALL of the following: American Welding Society (AWS) SMAW 1234 FG, AWS GMAW 1234 FG, AWS FCAW 1234 FG
T & I-Manufacturing	74090	ANY of the following: <ul style="list-style-type: none"> • Certified Production Technician (CPT) • Woodwork Career Alliance Certification • Electronics Technicians a CET certification • NIMS in all the following areas: Measurement, Materials & Safety, Job Planning, Benchwork & Layout, Manual & Milling Skills 1
T & I-Digital Media	74098	ALL of the following: Adobe Certified Associate-Visual Design, Adobe Certified Associate-Photoshop, Adobe Certified Associate-Illustrator
T & I-Public Safety	74099	ANY of the following: <ul style="list-style-type: none"> • NC Department of Public Safety C.E.R.T. • NC Office of State Fire Marshall Fire Fighter Instructor • NC Office of Emergency Management EMT Instructor • International Foundation of Protective Officers Certification

Provisional Licenses in CTE Areas

Educators with an Initial Professional License or a Continuing Professional License, restricted or non-restricted, are eligible to add an area provisionally if assigned in the area AND if they hold the required degree level for the provisional area as described in [CTED-004](#). **The LEA must request the provisional license area.** Educators have up to five years from the first effective date of the provisional license to complete requirements and clear the provisional status. A request to extend the provisional license area must be submitted annually via the NCDPI Licensure Online System. ***If action is not taken annually to either extend, remove, or clear the provisional area, the entire license expires.***

Educators may choose one of the options below to add a provisional area:

- 1) completing an NCSBE approved educator preparation program in the additional area; OR
- 2) satisfying NCSBE approved testing requirements in the additional area; OR
- 3) completing 24 semester hours in the subject area with a grade of “C” or better in each course; OR
- 4) earning industry credentials required for the eligible license (*see table in Adding an Additional Area section of this GUIDE*); OR
- 5) meeting eligibility criteria and completing requirements for the CTE Support Services license areas

The CTE license areas listed in the table below are **NOT eligible** for provisional status due to student and educator safety concerns. These can be added as an additional area to a current license prior to teaching.

CTE Areas NOT Eligible for Provisional Status	License Number
Health Sciences-RN	720
T& I-Collision Repair	74010
T & I-Automotive Service	74015
T & I-Construction	74026
T & I-Manufacturing	74090
T & I-Welding	74080

Renewing a Continuing Professional License

[LICN-005](#) establishes rules for renewing a Continuing Professional License. LEAs may have additional criteria for renewal as well. For licenses expiring on or after June 30, 2019, teachers of grades six through twelve must complete 8.0 renewal credits during each five-year renewal cycle that meet the following requirements:

- a) 3 renewal credits in their academic subject areas (aligned to Standard 3 or 4)
- b) 2 renewal credits addressing the Digital Learning Competencies
- c) 3 general credits (not to include years of experience) at the discretion of the employing LEA. LEAs reserve the right to assign literacy requirements for any educator.

See [LICN-005](#) for additional details on renewal including options for completing National Board for Professional Teaching Standards, administrator and student services renewal rules, and renewal for retired personnel.

Licenses Per Course

To determine which license is required for each course, consult the License In-Field-Subject-EC Crosswalk published annually by NCDPI’s Home Base and housed at www.nc-sis.or/courses.html. This document, available in spreadsheet format and can be easily sorted by course or license. The document will list each course multiple times

STATE SUBJECT CODE	COURSE NAME	LICENSE AREA CODE	LICENSE DESCRIPTION	VALID GR CODE/
0100	IB PERSONAL AND PROFESSIONAL SKILLS	74099	PUBLIC SAFETY	74099 10 13 13 13
CC45	CAREER MANAGEMENT	74099	PUBLIC SAFETY	74099 10 13 13 13
CS11	PROJECT MANAGEMENT I	74099	PUBLIC SAFETY	74099 10 13 13 13
CS12	PROJECT MANAGEMENT II	74099	PUBLIC SAFETY	74099 10 13 13 13
CS13	PROJECT MANAGEMENT II - TECHNOLOGY	74099	PUBLIC SAFETY	74099 10 13 13 13
CS14	PROJECT MANAGEMENT III	74099	PUBLIC SAFETY	74099 10 13 13 13
CS95	CTE ADVANCED STUDIES	74099	PUBLIC SAFETY	74099 10 13 13 13
CS96	CTE APPRENTICESHIP	74099	PUBLIC SAFETY	74099 10 13 13 13
CS97	CTE INTERNSHIP	74099	PUBLIC SAFETY	74099 10 13 13 13
FE21	TEACHING AS A PROFESSION I (pilot 2018-19)	74099	PUBLIC SAFETY	74099 10 13 13 13
FE22	TEACHING AS A PROFESSION II (pilot 2018-19)	74099	PUBLIC SAFETY	74099 10 13 13 13

and each license, **retired and active**, that are eligible to teach the course. Many teachers have continuing professional licenses or endorsements in areas that have been retired. These are still renewable for those who hold them. The crosswalk lists all licenses and endorsements eligible to teach each course. It also lists a description of the license and grade levels the license supports. This document is especially

useful in ensuring compliance. Keep in mind, that some courses require specific training and/or credentials in addition to the educator license. For example, the Public Safety license, 74099 is very broad and is the appropriate license for many courses. If teaching the Fire Fighter Technology courses, the educator is also required to be a licensed Fire Fighter Instructor as authorized by the NC Office of the State Fire Marshall. NCDPI Licensure would issue the 74099 license if the educator had one of the required credentials as noted in the CTE Licensure Policies and Procedures Manual; however, the LEA must ensure that the educator also has the required credential/training for a specific course. In some cases, the outside agency can restrict access to curriculum if training is not completed and/or credentials not obtained.

Courses Eligible for ALL CTE Licenses

The courses in the table below may be taught with all active and retired CTE licenses.

Course #	Course	Training/Credential	Required/Suggested
O100	IB PERSONAL AND PROFESSIONAL SKILLS		
CC45	CAREER MANAGEMENT	Microburst Learning Employer’s Choice Certificate; Conover Credential Workplace Readiness; NC Works Training and Development Center (Raleigh) - Facilitating Career Development course	Suggested
CS11	PROJECT MANAGEMENT I	NCDPI sponsored course training; Project Management Professional	Suggested
CS11	PROJECT MANAGEMENT I	NCDPI sponsored course training; Project Management Professional	Suggested
CS12	PROJECT MANAGEMENT II	NCDPI sponsored course training; Project Management Professional	Suggested
CS13	PROJECT MANAGEMENT II - TECHNOLOGY	NCDPI sponsored course training; Project Management Professional	Suggested
CS14	PROJECT MANAGEMENT III	NCDPI sponsored course training; Project Management Professional	Suggested
CS95	CTE ADVANCED STUDIES		
CS96	CTE APPRENTICESHIP		
CS97	CTE INTERNSHIP		
FE21	TEACHING AS A PROFESSION I (pilot 2018-19)	NCDPI Sponsored Training; Master of Education	Required
FE22	TEACHING AS A PROFESSION II (pilot 2018-19)	NCDPI Sponsored Training; Master of Education	Required

CTE Licenses, Route Options, & Requirements

In this section, each currently issued CTE License is listed, along with available route options, courses eligible to be taught with this license, and credentials and training that may be helpful in hiring and/or ensuring best practices. Note that bachelor's degree level CTE licenses can be obtained through both residency and restricted routes, however associate degree and high school diploma level licenses may only pursue a CTE Restricted license. The route determines the criteria for eligibility in hiring as addressed in the previous Residency for CTE, and CTE Restricted Licenses sections.

Program requirements for candidates pursuing a residency license are defined by the educator preparation program recommending the candidate for licensure. Questions regarding program requirements should be directed to the EPP. Program requirements for candidates utilizing the CTE restricted route are listed in the CTE Licensure Policies and Procedures Manual and should be monitored by the Regional Alternative Licensing Center, <https://ralc.us>.

CTE Licenses Currently Issued

- 700 Agriculture Education
- 760 Business, Finance, and Information Technology
- 765 Information Technology
- 710 Family & Consumer Sciences Education-General
- 712 Family & Consumer Sciences Education-Apparel
- 714 Family & Consumer Sciences Education-Child Development/Family Studies
- 716 Family & Consumer Sciences Education-Food & Nutrition/Culinary Arts
- 718 Family & Consumer Sciences Education-Interior Design
- 720 Health Science Education-RN
- 721 Health Science Education-Non RN
- 722 Health Science Education-Biotechnology
- 730 Marketing Education
- 820 Technology Education
- 822 Sci Vis and Game Art Design
- 740 Trade & Industrial Education-General (university program only)
- 74010 Trade & Industrial Education-Collision Repair
- 74015 Trade & Industrial Education-Automotive Service
- 74026 Trade & Industrial Education-Construction
- 74070 Trade & Industrial Education-Drafting
- 74080 Trade & Industrial Education-Welding
- 74090 Trade & Industrial Education-Manufacturing
- 74098 Trade & Industrial Education-Digital Media
- 74099 Trade & Industrial Education-Public Safety
- 711 Career & Technical Education Director
- 747 Career Development Coordinator
- 830 Curriculum & Instructional Management Coordinator
- 770 Special Populations Coordinator

License Area: Agricultural Education

License Number: 700

Routes: Residency, CTE Restricted

Required Degree Level: Bachelor's

Examples of Related Degrees: Agricultural Business Management, Agricultural Development, Agricultural Engineering, Agricultural Studies, Agronomy (Crops/Soils), Animal Science, Equine Science, Veterinary Science, Forestry, General Agriculture, Horticulture, Natural Resource Management, Poultry Science, Range Management

Examples of Related Work Experience: animal health specialist, veterinarian, conservation scientist, environmental science and protection technician, extension agent, farm and ranch manager, forester, horticulturist, integrated agriculture production specialist, landscaping and grounds keeping worker, nursery technician, wildlife enforcement officer, zoologist and wildlife biologist

Required Credentials: N/A

Eligible Courses:

Course #	Course Name	Training/Credential	Required/Suggested
AA21	ANIMAL SCIENCE I		
AA22	ANIMAL SCIENCE II		
AA23	ANIMAL SCIENCE II SMALL ANI		
AA31	EQUINE SCIENCE I		
AA32	EQUINE SCIENCE II		
AA41	VETERINARY ASSISTING		
AN51	NATURAL RESOURCES I		
AN52	NATURAL RESOURCES II		
AP41	HORTICULTURE I		
AP42	HORTICULTURE II		
AP43	HORTICULTURE II TURF GRASS MANAGEMENT		
AP44	HORTICULTURE II LANDSCAPING		
AS31	AGRICULTURAL MECH I		
AS32	AGRICULTURAL MECH II		
AS33	AGRICULTURAL MECH II SMALL ENGINES		
AU01	EXPLORING BIOTECHNOLOGY IN AG		
AU02	EXPLORING AGRICULTURAL SCIENCE		
AU10	AGRISCIENCE APPLICATIONS		
CS96	CTE APPRENTICESHIP		
CS97	CTE INTERNSHIP		
FN43	FOOD SCIENCE AND TECHNOLOGY	ANSI-Certified Food Protection Manager*	Suggested

*Shown proficiency of required information through passing a test that is part of the American National Standards Institute- Conference for Food Protection (ANSI-CFP) accreditation program.

License Area: Business, Finance, and Information Technology Education**License Number:** 760**Routes:** Residency, CTE Restricted**Required Degree Level:** Bachelor's

Examples of Related Degrees: Accounting, Administrative Systems, Business Administration, Computer Science, Entrepreneurship, Finance, Information Technologies, Management, MIS (Management Information Systems), Marketing, Financial Services Informatics, Organizational Management, International Business, Business Analytics, Finance & Banking, Risk Management & Insurance, Mathematics for Business, Information & Computer Technology, Economics, International Management, Innovation and Entrepreneurship, Human Resource Management

Examples of Related Work Experience: accountant /CPA, business analyst, business manager, operations analyst, marketing manager, systems analyst, database administrator, management analyst, computer programmer/analyst, chief information officer, chief financial officer, loan officer, e-commerce manager, stock broker, investment advisor, financial analyst, sales manager, retail manager, corporate or personal financial manager, buyer, public relations manager, internet production industry to include web design, project developer

Required Credentials: NCSBE approved specialty area exam see [LICN-003](#)

Eligible Courses:

Course #	Course Name	Training/Credential	Required/Suggested
0A02	AP COMPUTER SCIENCE PRINCIPLES	AP Training	Required by the College Board
2A02	AP COMPUTER SCIENCE	AP Training	Required by the College Board
2I00	IB COMPUTER SCIENCE SL		
2I01	IB COMPUTER SCIENCE HL		
3I06	IB DESIGN TECHNOLOGY SL		
3I07	IB DESIGN TECHNOLOGY HL		
BA10	ACCOUNTING I		
BA20	ACCOUNTING II		
BA30	COMPUTER ACCOUNT III -College Level Accounting	Content Training	Required by curriculum provider AICPA
BB30	BUSINESS LAW		
BB40	BUSINESS MANAGEMENT I		
BB42	BUSINESS MANAGEMENT II		
BB50	IB BUSINESS MGMT		
BC10	CYBERSECURITY ESSENTIALS	Content Training	Required by Curriculum Provider
BC10	CYBERSECURITY ESSENTIALS HONORS	Content Training	Required by Curriculum Provider
BC31	NETWORK SECURITY I	CompTIA Security+	Suggested
BC31	NETWORK SECURITY I HONORS	CompTIA Security+	Suggested
BC32	NETWORK SECURITY II	CompTIA Security+	Suggested
BC32	NETWORK SECURITY II HONORS	CompTIA Security+	Suggested
BD10	MULTIMEDIA AND WEBPAGE DESIGN	MaWD Teacher Training	Suggested
BD12	ECOMMERCE I		
BF05	PERSONAL FINANCE		
BF10	PRINCIPLES OF BUSINESS AND FINANCE		
BF21	WEALTH BUILDING		
BF22	WEALTH MANAGEMENT		

BI05	INFORMATION TECH IN A GLOBAL SOCIETY		
BI10	FOUNDATIONS OF INFORMATION TECHN		
BI12	COMPTIA IT FUNDAMENTALS	BI12 Online Teacher Training Course	Suggested
BM10	MICROSOFT WORD AND POWERPOINT	Microsoft Office Specialist Word, Microsoft Office Specialist PowerPoint	Suggested
BM20	MICROSOFT EXCEL	Microsoft Office Specialist Excel Core, Microsoft Office Specialist Excel Expert	Suggested
BN20	NETWORK ADMINISTRATION I	CompTIA Network +	Suggested
BN22	NETWORK ADMINISTRATION II	CompTIA Network +	Suggested
BP01	MICROSOFT INTRO TO COMPUTER SCI MAKECODE	Microsoft Training	Suggested
BP10	COMPUTER PROGRAMMING I	6 Semester Hours in Programming	Suggested
BP12	COMPUTER PROGRAMMING II	6 Semester Hours in Programming	Suggested
BP20	SAS PROGRAMMING I	SAS Training	Required by curriculum provider
BP41	COMPUTER SCIENCE PRINCIPLES I	The Friday Institute	Suggested
BP41	COMPUTER SCIENCE PRINCIPLES I HONORS		
BP42	COMPUTER SCIENCE PRINCIPLES II	The Friday Institute	Suggested
BP42	COMPUTER SCIENCE PRINCIPLES II HONORS		
BU10	COMPUTER SKILLS AND APPLICATIONS		
BU20	EXPLORING BUSINESS MARKETING & ENTREPRE		
CN10	AOF PRINCIPLES OF FINANCE		
CN11	AOF BUSINESS ECONOMICS		
CN12	AOF PRINCIPLES OF ACCOUNTING		
CN13	AOF FINANCIAL PLANNING		
CN14	AOF ENTREPRENEURSHIP		
CN15	AOF INSURANCE		
CN16	AOF BUSINESS IN A GLOBAL ECONOMY		
CN17	AOF APPLIED FINANCE		
CN18	AOF FINANCIAL SERVICES		
CN19	AOF MANAGERIAL ACCOUNTING		
CN20	AOF PROFESSIONAL ETHICS		
CN31	AOIT WEB DESIGN		
CN32	AOIT INTRODUCTION TO PROGRAMMING		
CN33	AOIT NETWORKING		
CN34	AOIT COMPUTER SYSTEMS		
CN35	AOIT DATABASE DESIGN		
CN36	AOIT DIGITAL VIDEO PRODUCTION		
CN37	AOIT GRAPHIC DESIGN		
CN50	AOHT PRINCIPLES OF HOSPITALITY		
CN51	AOHT GEOGRAPHY AND WORLD TOURISM		
CN52	AOHT EVENT PLANNING		
CN53	AOHT CUSTOMER SERVICE		
CN54	AOHT SUSTAINABLE TOURISM		
HV11	SREB AC HEALTH INFORMATICS DATA & USE		

HV12	SREB AC HEALTH INFORMATICS TRANSFER DATA		
HV13	SREB AC HEALTH INFORMATICS TRANSFER INFO		
HV14	SREB AC HEALTH INFOMATICS PROBLEMS		
IA31	DIGITAL MEDIA I	NCDPI Sponsored Workshop; All 5 ACAs	Suggested
IA32	ADVANCED DIGITAL MEDIA	NCDPI Sponsored Workshop; All 5 ACAs	Suggested
II11	CISCO NETWORK ENGINEERING TECH I	CISCO CCENT	Suggested
II12	CISCO NETWORK ENGINEERING TECH II	CISCO CCENT	Suggested
II21	COMPUTER ENGINEERING TECHNOLOGY I	COMPTIA A+	Suggested
II22	COMPUTER ENGINEERING TECHNOLOGY II	COMPTIA A+	Suggested
II31	ADOBE VISUAL DESIGN	ACA Photoshop, InDesign, Illustrator	Suggested
II32	ADOBE DIGITAL DESIGN	ACA Photoshop, InDesign, Illustrator	Suggested
II33	ADOBE VIDEO DESIGN	ACA Photoshop, InDesign, Illustrator	Suggested
IK41	SREB AC INTRO TO LOGISTICS		
IK42	SREB AC FUNCTIONAL AREAS IN LOGISTICS		
IK43	SREB AC GLOBAL LOGISTICS MANAGEMENT		
IK44	SREB AC LOGISTICS & SUPPLY CHAIN MGMT		
ME11	ENTREPRENEURSHIP I		
ME12	ENTREPRENEURSHIP II		
TP01	PLTW GATEWAY TO TECHNOLOGY	PLTW Training	Required by Curriculum Provider

License Area: Information Technology Education**License Number:** 765**Routes:** Residency, CTE Restricted**Required Degree Level:***Residency:* Bachelor's*CTE Restricted:* Bachelor's or Associate

Examples of Related Degrees: Computer Engineering, Computer Science, Electronic Engineering, Software Engineering, Information Technology, Network Engineering, Network Administration, Information and Computer Technology, Cybersecurity, Computer Science

Examples of Related Work Experience: computer programmer, web designer, security analyst, software developer, mobile app developer, internet production industry, network administrator, data scientist, user interface/graphic design, IT compliance, IT strategist, virtualization manager, electronic engineering technician, computer engineering technician, network engineer, network engineering technician, IT technician, IT service desk, project manager, tech support specialist, field service technician, data support technician, desktop support administrator, end user computing technician, system support specialist, IT Consultant, security specialist, security engineer, systems administrator, security consultant, security engineer, junior IT auditor/penetration tester

Required Credentials: N/A**Eligible Courses:**

Course #	Course Name	Training/Credential	Suggested/Required
BC10	CYBERSECURITY ESSENTIALS	Content Training	Required by Curriculum Provider
BC10	CYBERSECURITY ESSENTIALS HONORS	Content Training	Required by Curriculum Provider
BC31	NETWORK SECURITY I	CompTIA Security+	Suggested
BC31	NETWORK SECURITY I HONORS	CompTIA Security+	Suggested
BC32	NETWORK SECURITY II	CompTIA Security+	Suggested
BC32	NETWORK SECURITY II HONORS	CompTIA Security+	Suggested
BD10	MULTIMEDIA AND WEBPAGE DESIGN	MaWD Teacher Training	Suggested
BD12	ECOMMERCE I		
BI10	FOUNDATIONS OF INFORMATION TECHN		
BI12	COMPTIA IT FUNDAMENTALS	BI12 Online Teacher Training Course	Suggested
BN20	NETWORK ADMINISTRATION I	CompTIA Network+	Suggested
BN22	NETWORK ADMINISTRATION II	CompTIA Network+	Suggested
BP01	MICROSOFT INTRO TO COMPUTER SCI MAKECODE	Microsoft Training	Suggested
BP10	COMPUTER PROGRAMMING I	6 Semester Hours in Programming	Suggested
BP12	COMPUTER PROGRAMMING II	6 Semester Hours in Programming	Suggested
BP20	SAS PROGRAMMING I	SAS Training	Required
BP41	COMPUTER SCIENCE PRINCIPLES I		
BP41	COMPUTER SCIENCE PRINCIPLES I HONORS		
BP42	COMPUTER SCIENCE PRINCIPLES II		
BP42	COMPUTER SCIENCE PRINCIPLES II HONORS		
BR11	SREB AC INFORMATICS COMPUTERS, NET & DTB		
BR12	SREB AC INFORMATICS DESIGN FOR DIG WORLD		
BR13	SREB AC INFORMATICS DTB IN THE CLOUD		
BR14	SREB AC INFORMATICS DEV A CLOUD PRESENCE		
II11	CISCO NETWORK ENGINEERING TECH I	CISCO CCENT	Suggested

II12	CISCO NETWORK ENGINEERING TECH II	CISCO CCENT	Suggested
II21	COMPUTER ENGINEERING TECHNOLOGY I	COMPTIA A+	Suggested
II22	COMPUTER ENGINEERING TECHNOLOGY II	COMPTIA A+	Suggested

License Area: Family and Consumer Sciences Education—General

License Number: 710

Routes: Residency, CTE Restricted

Required Degree Level: Bachelor's

Examples of Related Degrees: Family and Consumer Sciences; Youth, Family and Community Sciences, Family and Community Services

Examples of Related Work Experience: interior designer, cafeteria manager, food service manager, extension specialist, adult education, preschool/day care director, social worker, family counselor, financial planner, community service manager, community health educator, fashion/textile designer

Required Credentials: NCSBE approved specialty area exam see [LICN-003](#)

Eligible Courses:

Course #	Course Name	Training/Credential	Required/Suggested
BF05	PERSONAL FINANCE		
FA31	APPAREL AND TEXTILE PROD I		
FA32	APPAREL AND TEXTILE PROD II		
FC01	EXPLORING FAMILY AND CONSUMER SCIENCES	ANSI-Certified Food Protection Manager*	Suggested
FC11	PRINCIPLES OF FAMILY AND HUMAN SERVICES	ANSI-Certified Food Protection Manager*	Suggested
FE11	EARLY CHILDHOOD EDUCATION I		
FE12	EARLY CHILDHOOD EDUCATION II		
FE60	CHILD DEVELOPMENT		
FH10	CULINARY ARTS AND HOSPITALITY I	ANSI-Certified Food Protection Manager*	Suggested
FH11	CULINARY ARTS AND HOSPITALITY II APP	ANSI-Certified Food Protection Manager*	Required by NC Dept of Health & Human Services
FH12	CULINARY ARTS AND HOSPITALITY II INT	ANSI-Certified Food Protection Manager*	Suggested
FH13	CULINARY ARTS AND HOSPITALITY III	ANSI-Certified Food Protection Manager*	Suggested
FH14	CULINARY ARTS AND HOSPITALITY IV APP	ANSI-Certified Food Protection Manager*	Required by NC Dept of Health & Human Services
FH15	CULINARY ARTS AND HOSPITALITY IV INT	ANSI-Certified Food Protection Manager*	Suggested
FH20	INTRODUCTION TO CULINARY ARTS AND HOSP	ANSI-Certified Food Protection Manager*	Required by NC Dept of Health & Human Services
FH21	CULINARY ARTS AND HOSPITALITY I	ANSI-Certified Food Protection Manager*	Required by NC Dept of Health & Human Services
FH22	CULINARY ARTS AND HOSPITALITY II	ANSI-Certified Food Protection Manager*	Required by NC Dept of Health & Human Services
FH71	PROSTART I	ANSI-Certified Food Protection Manager*	Suggested
FH72	PROSTART II	ANSI-Certified Food Protection Manager*	Suggested

FI51	INTERIOR DESIGN I		
FI52	INTERIOR DESIGN II		
FI53	INTERIOR DIGITAL APPLICATIONS	Autodesk Certified User Revit	Suggested
FN41	FOOD AND NUTRITION I	ANSI-Certified Food Protection Manager*	Suggested
FN42	FOOD AND NUTRITION II	ANSI-Certified Food Protection Manager*	Suggested
FN43	FOOD SCIENCE AND TECHNOLOGY	ANSI-Certified Food Protection Manager*	Suggested

*Shown proficiency of required information through passing a test that is part of the American National Standards Institute- Conference for Food Protection (ANSI-CFP) accreditation program.

License Area: Family and Consumer Sciences Education—Apparel

License Number: 712

Routes: Residency, CTE Restricted

Required Degree Level: Bachelor's

Examples of Related Degrees: Fashion/Apparel Design, Textile Design, Fashion Merchandising, Consumer Apparel & Retail Studies, Fashion and Textile Management, Fibers and Fashion Studies, Technical Design, Textile Development & Marketing

Examples of Related Work Experience: tailor, seamstress, fashion designer, fashion buyer, fashion retail manager, fashion production, costume designer, extension agent specializing in apparel, textile designer

Required Credentials: N/A

Eligible Courses:

Course #	Course Name	Training/Credential	Suggested/Required
FA31	APPAREL AND TEXTILE PROD I		
FA32	APPAREL AND TEXTILE PROD II		
MI21	FASH MERCHANDISING		

License Area: Family and Consumer Sciences Education—Child Development/Family Studies

License Number: 714

Routes: Residency, CTE Restricted

Required Degree Level: Bachelor's

Examples of Related Degrees: Child Development and Family Relations, Family Studies, Child Psychology, Human Development

Examples of Related Work Experience: social services case worker, family therapy counselor, preschool teacher, preschool/day care director, kindergarten teacher, extension agent specializing in child development and family studies

Required Credentials: N/A

Eligible Courses:

Course #	Course Name	Training/Credential	Suggested/Required
FC11	PRINCIPLES OF FAMILY AND HUMAN SERVICES	ANSI-Certified Food Protection Manager*	Suggested
FE11	EARLY CHILDHOOD EDUCATION I		
FE12	EARLY CHILDHOOD EDUCATION II		
FE60	CHILD DEVELOPMENT		

* *Shown proficiency of required information through passing a test that is part of the American National Standards Institute- Conference for Food Protection (ANSI-CFP) accreditation program

License Area: Family and Consumer Sciences Education—Foods and Nutrition/Culinary Arts

License Number: 716

Routes: Residency, CTE Restricted

Required Degree Level:

Residency: Bachelor's

CTE Restricted: Bachelor's or Associate

Examples of Related Degrees: Baking and Pastry Arts, Culinary Arts, Food Service Management Technology, Dietetics, Dietetics Technician, Food Service Management, Nutrition, Hospitality

Examples of Related Work Experience: chef, restaurant manager, food service manager, dietitian, nutritionist, extension agent specializing in foods and nutrition, catering manager, hospitality manager

Required Credentials: ANSI-Certified Food Protection Manager Certification is required prior to teaching

Eligible Courses:

*Shown proficiency of required information through passing a test that is part of the American National Standards Institute- Conference for Food Protection (ANSI-CFP) accreditation program.

Course #	Course Name	Training/Credential	Suggested/Required
FH10	CULINARY ARTS AND HOSPITALITY I	ANSI-Certified Food Protection Manager*	Required
FH10	CULINARY ARTS AND HOSPITALITY I HONORS	ANSI-Certified Food Protection Manager*	Required
FH11	CULINARY ARTS AND HOSPITALITY II APP	ANSI-Certified Food Protection Manager*	Required
FH11	CULINARY ARTS AND HOSPITALITY II APP HON	ANSI-Certified Food Protection Manager*	Required
FH12	CULINARY ARTS AND HOSPITALITY II INT	ANSI-Certified Food Protection Manager*	Required
FH12	CULINARY ARTS AND HOSPITALITY II INT HON	ANS- Certified Food Protection Manager*	Required
FH13	CULINARY ARTS AND HOSPITALITY III	ANSI-Certified Food Protection Manager*	Required
FH13	CULINARY ARTS AND HOSPITALITY III HONORS	ANSI-Certified Food Protection Manager*	Required
FH14	CULINARY ARTS AND HOSPITALITY IV APP	ANS- Certified Food Protection Manager*	Required
FH14	CULINARY ARTS AND HOSPITALITY IV APP HON	ANSI-Certified Food Protection Manager*	Required
FH15	CULINARY ARTS AND HOSPITALITY IV INT	ANSI-Certified Food Protection Manager*	Required
FH15	CULINARY ARTS AND HOSPITALITY IV INT HON	ANSI-Certified Food Protection Manager*	Required
FH20	INTRODUCTION TO CULINARY ARTS AND HOSP	ANSI-Certified Food Protection Manager*	Required
FH21	CULINARY ARTS AND HOSPITALITY I	ANSI-Certified Food Protection Manager*	Required
FH22	CULINARY ARTS AND HOSPITALITY II	ANSI-Certified Food Protection Manager*	Required
FH71	PROSTART I	ANS- Certified Food Protection Manager*	Required

FH72	PROSTART II	ANSI-Certified Food Protection Manager*	Required
FN41	FOOD AND NUTRITION I	ANSI-Certified Food Protection Manager*	Required
FN42	FOOD AND NUTRITION II	ANSI-Certified Food Protection Manager*	Required
FN43	FOOD SCIENCE AND TECHNOLOGY	ANSI-Certified Food Protection Manager*	Required

License Area: Family and Consumer Sciences Education—Interior Design

License Number: 718

Routes: Residency, CTE Restricted

Required Degree Level: Bachelor's

Examples of Related Degrees: Interior Design, Interior Architecture, Textile Design, Architectural Design, Furniture Design

Examples of Related Work Experience: interior design, textile design, architectural design, furniture design, interior design, sales and marketing, extension agent specializing in interior design

Required Credentials: N/A

Eligible Courses:

Course #	Course Name	Training/Credential	Suggested/Required
F151	INTERIOR DESIGN I		
F152	INTERIOR DESIGN II		
F153	INTERIOR DIGITAL APPLICATIONS	Autodesk Certified User Revit	Suggested

License Area: Health Science Education—RN

License Number: 720

Routes: Residency, CTE Restricted

Required Degree Level:

Residency: Bachelor's

CTE Restricted: Bachelor's, Associate, or Diploma RN

Examples of Related Degrees: Nursing

Examples of Related Work Experience: nursing, post-secondary nursing instruction if clinical instruction is included in responsibilities

Required Credentials: Unrestricted license as a Registered Nurse prior to teaching

Eligible Courses:

Course #	Course Name	Training/Credential	Suggested/Required
HB05	EXPL BIOTECHNOLOGY		
HB11	BIOMEDICAL TECHNOLOGY I		
HB12	BIOMEDICAL TECHNOLOGY II		
HH32	PHARMACY TECHNICIAN	PTCB Pharmacy Technician Certification	Required by curriculum provider
HN42	NURSING FUNDAMENTALS AND NON PRACTICUM	Registered Nurse	Required by outside regulating agency
HN43	NURSING FUNDAMENTALS AND PRACTICUM	Registered Nurse	Required by outside regulating agency
HN44	FUNDAMENTALS OF GERONTOLOGY		
HN45	PUBLIC HEALTH FUNDAMENTALS		
HP70	PLTW PRINCIPLES OF BIOMEDICAL SCIENCES	PLTW course training	Required by curriculum provider
HP71	PLTW HUMAN BODY SYSTEMS	PLTW course training	Required by curriculum provider
HP72	PLTW MEDICAL INTERVENTION	PLTW course training	Required by curriculum provider
HP73	PLTW SCIENCE RESEARCH	PLTW course training	Required by curriculum provider
HS10	AOHS HEALTH CAREER EXPLORATION		
HS11	AOHS GLOBAL HEALTH		
HS12	AOHS FOUNDATIONS OF ANATOMY AND PHYSIOLOGY I		
HS13	AOHS FOUNDATIONS OF ANATOMY AND PHYSIOLOGY II		
HU10	HEALTH TEAM RELATIONS		
HU40	HEALTH SCIENCE I		
HU42	HEALTH SCIENCE II		
HV11	SREB AC HEALTH INFORMATICS DATA & USE		
HV12	SREB AC HEALTH INFORMATICS TRANSFER DATA		
HV13	SREB AC HEALTH INFORMATICS TRANSFER INFO		
HV14	SREB AC HEALTH INFOMATICS PROBLEMS		
IP21	EMERGENCY MEDICAL TECHNOLOGY I	NC Office of Emergency Management Systems EMT Instructor	Required by outside regulating agency

IP22	EMERGENCY MEDICAL TECHNOLOGY II	NC Office of Emergency Management Systems EMT Instructor	Required by outside regulating agency
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License Area: Health Science Education—Non RN

License Number: 721 (May not teach courses that require RN credential)

Routes: Residency, CTE Restricted

Required Degree Level:

Residency: Bachelor's

CTE Restricted: Associate

Examples of Related Degrees: Physical Therapy, Medical Technology, Clinical Laboratory, Dietetic, Nutrition, Nuclear Medicine, Physician Assistant, Physician, Athletic Training, Health Education, Respiratory Therapy, Histology, Occupational Therapy, Dentist, Dental Hygiene, Cardiovascular Technology, Emergency Medical Care, Radiology, Paramedic

Examples of Related Work Experience: health educator at health departments, schools, etc.; athletic trainer; physical therapist, occupational therapist; cardiovascular technologist; medical doctor; paramedic

Required Credentials: Healthcare license representative of degree prior to teaching. Examples (not inclusive list): Physical Therapist-state level license; Medical Doctor-state level license; Respiratory Therapist-state level license; Paramedic-state level license; Dental Hygienist-state level license; Athletic Training-Certified Athletic Trainer from NATABOC; Candidates with a health education degree may use a successful score on the ETS Praxis Exam 5551 (Health Education Specialist) as defined by LICN-003 in lieu of an industry credential

Courses:

Course #	Course Name	Training/Credential	Suggested/Required
HB05	EXPL BIOTECHNOLOGY		
HB11	BIOMEDICAL TECHNOLOGY I		
HB12	BIOMEDICAL TECHNOLOGY II		
HH32	PHARMACY TECHNICIAN	PTCB Pharmacy Technician Certification	Required by curriculum provider
HP70	PLTW PRINCIPLES OF BIOMEDICAL SCIENCES	PLTW course training	Required by curriculum provider
HP71	PLTW HUMAN BODY SYSTEMS	PLTW course training	Required by curriculum provider
HP72	PLTW MEDICAL INTERVENTION	PLTW course training	Required by curriculum provider
HP73	PLTW SCIENCE RESEARCH	PLTW course training	Required by curriculum provider
HS10	AOHS HEALTH CAREER EXPLORATION		
HS11	AOHS GLOBAL HEALTH		
HS12	AOHS FOUNDATIONS OF ANATOMY AND PHYSIOLOGY I		
HS13	AOHS FOUNDATIONS OF ANATOMY AND PHYSIOLOGY II		
HU10	HEALTH TEAM RELATIONS		
HU40	HEALTH SCIENCE I		
HU42	HEALTH SCIENCE II		
HV11	SREB AC HEALTH INFORMATICS DATA & USE		
HV12	SREB AC HEALTH INFORMATICS TRANSFER DATA		
HV13	SREB AC HEALTH INFORMATICS TRANSFER INFO		
HV14	SREB AC HEALTH INFOMATICS PROBLEMS		

License Area: Health Science Education—Biotechnology Professional

License Number: 722

Routes: Residency, CTE Restricted

Required Degree Level: Bachelor's

Examples of Related Degrees: Biotechnology, Biomedical Engineering, Biology-Related Degrees (Biochemistry, Genetics, Microbiology, Immunology, Molecular Biology, Toxicology, Structural Biology, Cellular Biology), Chemistry, Pathology, or Pharmacology if at least 6 semester hours in Microbiology, Genetics, Immunology, Biochemistry, Molecular Biology, Cell Biology

Examples of Related Work Experience: biotechnology, biomedical engineer, biomedical informatics, biomedical equipment technician, laboratory assistant, quality assurance technician, clinical trials research associate, crime scene investigator, genetic counselor, microbiologist, science teacher

Required Credentials: N/A

Courses:

Course #	Course Name	Training/Credential	Suggested/Required
HB05	EXPL BIOTECHNOLOGY		
HB11	BIOMEDICAL TECHNOLOGY I		
HB12	BIOMEDICAL TECHNOLOGY II		
HH32	PHARMACY TECHNICIAN	PTCB Pharmacy Technician Certification	Required by curriculum provider
HP70	PLTW PRINCIPLES OF BIOMEDICAL SCIENCES	PLTW course training	Required by curriculum provider
HP71	PLTW HUMAN BODY SYSTEMS	PLTW course training	Required by curriculum provider
HP72	PLTW MEDICAL INTERVENTION	PLTW course training	Required by curriculum provider
HP73	PLTW SCIENCE RESEARCH	PLTW course training	Required by curriculum provider
HS10	AOHS HEALTH CAREER EXPLORATION		
HS11	AOHS GLOBAL HEALTH		
HS12	AOHS FOUNDATIONS OF ANATOMY AND PHYSIOLOGY I		
HS13	AOHS FOUNDATIONS OF ANATOMY AND PHYSIOLOGY II		
HU10	HEALTH TEAM RELATIONS		
HU40	HEALTH SCIENCE I		
HU42	HEALTH SCIENCE II		
HV11	SREB AC HEALTH INFORMATICS DATA & USE		
HV12	SREB AC HEALTH INFORMATICS TRANSFER DATA		
HV13	SREB AC HEALTH INFORMATICS TRANSFER INFO		
HV14	SREB AC HEALTH INFOMATICS PROBLEMS		

License Area: Marketing Education

License Number: 730

Routes: Residency, CTE Restricted

Required Degree Level: Bachelor's

Examples of Related Degrees: Administrative Systems, Business Administration, Entrepreneurship, Management, Management Information Systems, Marketing, Communications, Economics, Supply Chain Management, Digital Marketing, Public Relations

Examples of Related Work Experience: marketing manager, sales manager, retail manager, real estate agent or buyer, hospitality tourism and recreation manager, marketing research analyst, distribution and logistics specialist, communications specialist, buyer, social media manager, digital or online marketing manager, digital or online marketing analyst, public relations manager, channel marketing specialist, channel marketing director, e-commerce specialist, internet marketing specialist, eCRM campaign specialist, marketing events manager, promotions manager, sports marketing account executive, advertising manager, brand manager

Required Credentials: NCSBE approved specialty area exam see [LICN-003](#)

Eligible Courses:

Course #	Course Name	Training/Credential	Suggested/Required
BF05	PERSONAL FINANCE		
BF10	PRINCIPLES OF BUSINESS AND FINANCE		
BU20	EXPLORING BUSINESS MARKETING & ENTREPRE		
IK41	SREB AC INTRO TO LOGISTICS		
IK42	SREB AC FUNCTIONAL AREAS IN LOGISTICS		
IK43	SREB AC GLOBAL LOGISTICS MANAGEMENT		
IK44	SREB AC LOGISTICS & SUPPLY CHAIN MGMT		
MA52	MARKETING APPLICATIONS		
ME11	ENTREPRENEURSHIP I		
ME12	ENTREPRENEURSHIP II		
MH31	SPORTS AND ENTERTAINMENT MARKETING I		
MH32	SPORTS AND ENTERTAINMENT MARKETING II		
MH42	HOSPITALITY AND TOURISM		
MI21	FASH MERCHANDISING		
MM51	MARKETING		
MU92	STRATEGIC MARKETING		

License Area: **Technology Engineering and Design Education**

License Number: 820

Routes: Residency, CTE Restricted

Required Degree Level: Bachelor's

Examples of Related Degrees: Architecture, Construction, Industrial Design, Engineering, Industrial Technology, Manufacturing, Transportation, Science, Industrial Arts, Trade and Industrial Education, Graphic Design, Graphic Production, Animation and Visualization, Computer Programming, Game Design and Development, Computer Science, Programming, Game Software Engineering, Simulation and Game Animation, Digital Effects and Animation Technology or Game Art Design and degrees that integrate STEM such as Technology or Engineering

Examples of Related Work Experience: engineer, construction manager, graphics designer, industrial designer, electronics technician, computer technician, network technician, manufacturing technician, construction-related technician, project developer

Required Credentials: NCSBE approved specialty area exam see [LICN-003](#)

Eligible Courses:

Course #	Course Name	Training/Credential	Suggested/Required
0A02	AP COMPUTER SCIENCE PRINCIPLES	AP Training	Required by College Board
2A02	AP COMPUTER SCIENCE	AP Training	Required by College Board
2I00	IB COMPUTER SCIENCE SL		
2I01	IB COMPUTER SCIENCE HL		
BC10	CYBERSECURITY ESSENTIALS		
BC10	CYBERSECURITY ESSENTIALS HONORS		
BC31	NETWORK SECURITY I		
BC31	NETWORK SECURITY I HONORS		
BC32	NETWORK SECURITY II		
BC32	NETWORK SECURITY II HONORS		
BI10	FOUNDATIONS OF INFORMATION TECHN		
BP20	SAS PROGRAMMING I	SAS Training	Suggested
BP41	COMPUTER SCIENCE PRINCIPLES I		
BP41	COMPUTER SCIENCE PRINCIPLES I HONORS		
BP42	COMPUTER SCIENCE PRINCIPLES II		
BP42	COMPUTER SCIENCE PRINCIPLES II HONORS		
IK41	SREB AC INTRO TO LOGISTICS		
IK42	SREB AC FUNCTIONAL AREAS IN LOGISTICS		
IK43	SREB AC GLOBAL LOGISTICS MANAGEMENT		
IK44	SREB AC LOGISTICS & SUPPLY CHAIN MGMT		
IM11	ADVANCED MANUFACTURING I		
IM12	ADVANCED MANUFACTURING II		
IM71	SREB AC INTRO TO AUTOMATED MATERIAL JOIN		
IM72	SREB AC APPS IN AUTOMATED MATERIALS JOIN		
IM73	SREB AC ADV AUTOMATED MATERIALS JOIN		
IM74	SREB AC PROJ IN AUTOMATED MATERIALS JOIN		
TE01	TECHNOLOGY DESIGN AND INNOVATION		

TE02	TECHNOLOGICAL SYSTEMS		
TE11	TECHNOLOGY ENGINEERING AND DESIGN		
TE12	TECHNOLOGICAL DESIGN		
TE13	ENGINEERING DESIGN		
TP01	PLTW GATEWAY TO TECHNOLOGY	PLTW Course Training	Required by curriculum provider
TP11	PLTW INTRODUCTION TO ENGINEERING DESIGN	PLTW Course Training	Required by curriculum provider
TP12	PLTW PRINCIPLES OF ENGINEERING	PLTW Course Training	Required by curriculum provider
TP21	PLTW DIGITAL ELECTRONICS	PLTW Course Training	Required by curriculum provider
TP22	PLTW COMPUTER INTEGRATED MANUFACTURING	PLTW Course Training	Required by curriculum provider
TP23	PLTW CIVIL ENGINEERING AND ARCHITECTURE	PLTW Course Training	Required by curriculum provider
TP25	PLTW AEROSPACE ENGINEERING	PLTW Course Training	Required by curriculum provider
TP27	PLTW ENVIRONMENTAL SUSTAINABILITY	PLTW Course Training	Required by curriculum provider
TP31	PLTW ENGINEERING DESIGN AND DEVELOPMENT	PLTW Course Training	Required by curriculum provider
TR11	SREB AC ADV TECH FOR DESIGN & PROD		
TR12	SREB AC SYSTEMS OF ADVANCED TECH		
TR13	SREB AC MECHATRONIC SYSTEMS FOR ADV TECH		
TR14	SREB AC DESIGN FOR THE PROD OF ADV PROD		
TR15	SREB AC IST NATURE OF SCIENCE & TECH		
TR16	SREB AC IST CORE APPS OF SCIENCE & TECH		
TR17	SREB AC IST IMPACTS OF SCIENCE & TECH		
TR18	SREB AC IST CREATIVITY & INNOVATIONS		
TS21	SCIENTIFIC AND TECHNICAL VISUALIZATION I		
TS22	SCIENTIFIC AND TECHNICAL VISUALIZATION II		
TS31	GAME ART DESIGN		
TV11	SREB AC CLEAN ENERGY SYSTEMS		
TV12	SREB AC CLEAN ENERGY APPLICATIONS		
TV13	SREB AC CLEAN ENERGY STRATEGIES		
TV14	SREB AC CLEAN ENERGY INNOVATIONS		
TV16	SREB AC FUNDAMENTALS OF AEROSPACE TECH		
TV17	SREB AC ADV AEROSPACE TECH		
TV18	SREB AC AERONAUTICS ENGINEERING APPS		
TV19	SREB AC ASTRONAUTICS ENGINEERING APPS		
TV21	SREB AC ENERGY & POWER FOUNDATIONS		
TV22	SREB AC ENERGY TRANSMISSION AND DISTR		
TV23	SREB AC ELECTRONICS & CONTROL SYSTEMS		
TV24	SREB AC ADV SCIENCE AND ENG SYSTEMS		

License Area: Technology Engineering and Design Education—Sci Vis and Game Art

License Number: 822- Sci Vis and Game Art

Routes: CTE Restricted Only

Required Degree Level: Associate

Examples of Related Degrees: Animation and Visualization, Computer Programming, Game Design and Development, Computer Science, Programming, Game Software Engineering, Simulation and Game Animation, Digital Effects and Animation Technology or Game Art Design

Examples of Related Work Experience: simulation and game development, gaming management, computer programming, computer technology integration

Eligible Courses:

Course #	Course Name	Training/Credential	Suggested/Required
TS21	SCIENTIFIC AND TECHNICAL VISUALIZATION I	NCNCDPI Sponsored Training	Suggested
TS22	SCIENTIFIC AND TECHNICAL VISUALIZATION II	NCNCDPI Sponsored Training	Suggested
TS31	GAME ART DESIGN	NCNCDPI Sponsored Training	Suggested

License Area: Trade and Industrial Education—Collision Repair

License Number: 74010

Routes: Residency, CTE Restricted

Required Degree Level:

Residency: Bachelor's

CTE Restricted: Bachelor's, Associate or High School Diploma

Examples of Related Degrees: Automotive Technology-Collision Repair and Refinishing Technology, Auto Collision Technology, Auto Collision Repair, Auto Body Repair

Examples of Related Work Experience: Demonstrated work in collision repair industry such as work in auto painting and refinishing, non-structural repair.

Required Credentials: I-CAR Prolevel II in the Educator Role before expiration of the initial license

Eligible Courses:

Course #	Course	Training/Credential	Suggested/Required
IT31	COLLISION REPAIR I	I-CAR Prolevel II Educator Role	
IT32	COLLISION REPAIR NON-STRUCTURAL	I-CAR Prolevel II Educator Role	
IT33	COLLISION REPAIR REFINISHING	I-CAR Prolevel II Educator Role	
IU10	INTRO T AND I EDUCATION		

License Area: Trade and Industrial Education—Automotive Service

License Number: 74015

Routes: Residency, CTE Restricted

Required Degree Level:

Residency: Bachelor's

CTE Restricted: Bachelor's, Associate or High School Diploma

Examples of Related Degrees: Automotive Systems Technology, Transportation Systems Technology

Examples of Related Work Experience: Industry demonstrated experience in the Automotive repair and service field OR a minimum of three years experience as a teacher in a postsecondary vocational/technical automotive related training program.

Required Credentials: ALL of the following: ASE Brakes; ASE Electrical; ASE MLR; ASE Suspension and Steering required prior to teaching

Courses:

Course #	Course	Training/Credential	Suggested/Required
IT11	AUTOMOTIVE SERVICE FUNDAMENTALS	ALL of the following: ASE Brakes, ASE Electrical, ASE MLR, ASE Suspension and Steering	Required prior to teaching
IT16	AUTOMOTIVE SERVICE I	ALL of the following: ASE Brakes, ASE Electrical, ASE MLR, ASE Suspension and Steering	Required prior to teaching
IT17	AUTOMOTIVE SERVICE II	ALL of the following: ASE Brakes, ASE Electrical, ASE MLR, ASE Suspension and Steering	Required prior to teaching
IT18	AUTOMOTIVE SERVICE III	ALL of the following: ASE Brakes, ASE Electrical, ASE MLR, ASE Suspension and Steering	Required prior to teaching
IU10	INTRO T AND I EDUCATION		

License Area: Trade and Industrial Education—Construction

License Number: 74026

Routes: Residency, CTE Restricted

Required Degree Level:

Residency: Bachelor's

CTE Restricted: Bachelor's, Associate or High School Diploma

Examples of Related Degrees: Carpentry, Construction Management, Building Construction, Electrician, Electrical Trades, Masonry

Examples of Related Work Experience: Construction industry with demonstrated experience in the electrical trades field

Required Credentials: ALL of the following: OSHA 10-Hour Construction Safety prior to classroom instruction; NCCER Instructor Certified Training Program (ICTP); NCCER Instructor "Your Role in the Green Environment" within 90 days from date of hire

Eligible Courses:

Course #	Course	Training/Credential	Suggested/Required
IC00	CORE AND SUSTAINABLE CONSTRUCTION	ALL of the following: OSHA 10-Hour Construction Safety, NCCER Instructor Certified Training Program, NCCER Instructor "Your Role in the Green Environment"	Required
IC11	MASONRY I	ALL of the following: OSHA 10-Hour Construction Safety, NCCER Instructor Certified Training Program, NCCER Instructor "Your Role in the Green Environment"	Required
IC12	MASONRY II	ALL of the following: OSHA 10-Hour Construction Safety, NCCER Instructor Certified Training Program, NCCER Instructor "Your Role in the Green Environment"	Required
IC13	MASONRY III	ALL of the following: OSHA 10-Hour Construction Safety, NCCER Instructor Certified Training Program, NCCER Instructor "Your Role in the Green Environment"	Required
IC21	CARPENTRY I	ALL of the following: OSHA 10-Hour Construction Safety, NCCER Instructor Certified Training Program, NCCER Instructor "Your Role in the Green Environment"	Required
IC22	CARPENTRY II	ALL of the following: OSHA 10-Hour Construction Safety, NCCER Instructor Certified Training Program, NCCER Instructor "Your Role in the Green Environment"	Required

IC23	CARPENTRY III	ALL of the following: OSHA 10-Hour Construction Safety, NCCER Instructor Certified Training Program, NCCER Instructor "Your Role in the Green Environment"	Required
IC41	ELECTRICAL TRADES I	ALL of the following: OSHA 10-Hour Construction Safety, NCCER Instructor Certified Training Program, NCCER Instructor "Your Role in the Green Environment"	Required
IC42	ELECTRICAL TRADES II	ALL of the following: OSHA 10-Hour Construction Safety, NCCER Instructor Certified Training Program, NCCER Instructor "Your Role in the Green Environment"	Required
IC43	ELECTRICAL TRADES III	ALL of the following: OSHA 10-Hour Construction Safety, NCCER Instructor Certified Training Program, NCCER Instructor "Your Role in the Green Environment"	Required
IM21	WOODWORKING I	Woodwork Career Alliance	Required
IM22	WOODWORKING II	Woodwork Career Alliance	Required
IU10	INTRO T AND I EDUCATION		

License Area: Trade and Industrial Education—Drafting

License Number: 74070

Routes: Residency, CTE Restricted

Required Degree Level:

Residency: Bachelor's

CTE Restricted: Bachelor's, Associate or High School Diploma

Examples of Related Degrees: Mechanical Engineering, Drafting, CAD, Architectural Drafting, Engineering Drafting

Examples of Related Work Experience: construction industry with demonstrated experience in the drafting field; draftsman; cad designer; architect

Required Credentials: Certified SolidWorks Associate OR AutoDesk AutoCAD Certified User, AutoDesk Inventor Certified User, and AutoDesk Revit Certified User before expiration of the initial license

Eligible Courses:

Course #	Course	Training/Credential	Suggested/Required
IC61	DRAFTING I		
IC62	DRAFTING - ARCHITR II		
IC63	DRAFTING - ARCHITR III		
IU10	INTRO T AND I EDUCATION		
IV22	DRAFTING - ENGNRNG II		
IV23	DRAFTING - ENGNRNG III		
TS21	SCIENTIFIC AND TECHNICAL VISUALIZATION I	NCNCDPI Sponsored Training	Suggested
TS22	SCIENTIFIC AND TECHNICAL VISUALIZATION II	NCNCDPI Sponsored Training	Suggested

License Area: Trade and Industrial Education—Welding

License Number: 74080

Routes: Residency, CTE Restricted

Required Degree Level:

Residency: Bachelor's

CTE Restricted: Bachelor's, Associate or High School Diploma

Examples of Related Degrees: Welding Engineering, Welding Technology

Examples of Related Work Experience: Construction industry or manufacturing with demonstrated experience in the welding field

Required Credentials: ALL of the following: American Welding Society (AWS) SMAW 1234 FG, GMAW 1234 FG, FCAW 1234 FG before expiration of the initial license

Eligible Courses:

Course #	Course	Training/Credential	Suggested/Required
IM11	ADVANCED MANUFACTURING I		
IM12	ADVANCED MANUFACTURING II		
IM61	WELDING TECH I	American Welding Society (AWS) SMAW 1234 FG, GMAW 1234 FG, FCAW 1234 FG	
IM62	WELDING TECH II	American Welding Society (AWS) SMAW 1234 FG, GMAW 1234 FG, FCAW 1234 FG	
IM63	WELDING TECH III	American Welding Society (AWS) SMAW 1234 FG, GMAW 1234 FG, FCAW 1234 FG	
IU10	INTRO T AND I EDUCATION		

License Area: Trade and Industrial Education—Manufacturing

License Number: 74090

Routes: Residency, CTE Restricted

Required Degree Level:

Residency: Bachelor's

CTE Restricted: Bachelor's, Associate or High School Diploma

Examples of Related Degrees: Manufacturing, or Industrial, or Electrical, or Mechanical Engineering; Construction & Cabinetmaking Technology; Construction Design & Manufacturing; Cabinetmaking & Mill-Work; Woodworking; Electronics Engineering Technology; Electronics Engineering; Digital Electronics; Metals Manufacturing; Precision Machining; CNC Machining

Examples of Related Work Experience: for manufacturing-industry demonstrated experience in the production manufacturing field; for cabinetmaking/woodworking-industry demonstrated experience in the cabinetmaking field or woodworking field; for electronics- industry demonstrated experience in troubleshooting and repairing electronics components in the electronics industry; for metals manufacturing- industry demonstrated experience in the metals manufacturing field such as machinist work, mechanical engineering with demonstrated performance of metals machining task, or tool and dye

Required Credentials: ANY of the following: Certified Production Technician (CPT); Woodwork Career Alliance (WCA) Certification; Electronics Technicians aCET Certification; NIMS in all of the following areas: Measurement, Materials & Safety; Job Planning; Benchwork & Layout; Manual Milling Skills I

Eligible Courses:

Course #	Course	Training/Credential	Suggested/Required
IK41	SREB AC INTRO TO LOGISTICS		
IK42	SREB AC FUNCTIONAL AREAS IN LOGISTICS		
IK43	SREB AC GLOBAL LOGISTICS MANAGEMENT		
IK44	SREB AC LOGISTICS & SUPPLY CHAIN MGMT		
IM11	ADVANCED MANUFACTURING I	Certified Production Technician	Required
IM12	ADVANCED MANUFACTURING II	Certified Production Technician	Required
IM21	WOODWORKING I	Woodwork Career Alliance	Required
IM22	WOODWORKING II	Woodwork Career Alliance	Required
IM31	ELECTRONICS I	Electronics Technicians aCET	Required
IM32	ELECTRONICS II	Electronics Technicians aCET	Required
IM41	METALS MANUFACTURING TECH I	NIMS in all areas listed above	Required before expiration of the initial license
IM42	METALS MANUFACTURING TECH II	NIMS in all areas listed above	Required before expiration of the initial license
IM71	SREB AC INTRO TO AUTOMATED MATERIAL JOIN		
IM72	SREB AC APPS IN AUTOMATED MATERIALS JOIN		
IM73	SREB AC ADV AUTOMATED MATERIALS JOIN		
IM74	SREB AC PROJ IN AUTOMATED MATERIALS JOIN		
IU10	INTRO T AND I EDUCATION		
TR11	SREB AC ADV TECH FOR DESIGN & PROD		

TR12	SREB AC SYSTEMS OF ADVANCED TECH		
TR13	SREB AC MECHATRONIC SYSTEMS FOR ADV TECH		
TR14	SREB AC DESIGN FOR THE PROD OF ADV PROD		
TV21	SREB AC ENERGY & POWER FOUNDATIONS		
TV22	SREB AC ENERGY TRANSMISSION AND DISTR		
TV23	SREB AC ELECTRONICS & CONTROL SYSTEMS		
TV24	SREB AC ADV SCIENCE AND ENG SYSTEMS		

License Area: Trade and Industrial Education—Digital Media

License Number: 74098

Routes: Residency, CTE Restricted

Required Degree Level:

Residency: Bachelor's

CTE Restricted: Bachelor's, Associate or High School Diploma

Examples of Related Degrees: Audio/recording Arts, Audio Recording; Engineering, Audio/Video Production, Communications; Computer Animation, Digital Animation, Digital Production, Filmmaking/Editing, Film/Video, Game Art & Design, Graphic Arts, Graphic Communications, Graphic Design, Instructional Technology, Media Arts, Multimedia, Photography, Recording Arts, Sound/Audio Engineering, Television Broadcasting, Visual Communications, Web Design

Examples of Related Work Experience: broadcasting industry – television or radio; printing industry, film industry, photography industry, internet production industry to include web design, instructional technology – working with teacher/instructors to implement digital media projects in the classroom or school system

Required Credentials: ALL of the following are required: - Adobe Certified Associate (ACA) in Adobe Photoshop, Adobe InDesign, and Adobe Illustrator. Additional credentials are *suggested*: Adobe Certified Associate Adobe Digital Design, Adobe Dreamweaver and Adobe Premiere Pro.

Eligible Courses:

Course #	Course	Training/Credential	Suggested/Required
BD10	MULTIMEDIA AND WEBPAGE DESIGN	MaWD Teacher Training	Suggested
IA31	DIGITAL MEDIA I	NCDPI Sponsored Workshop; All 5 ACAs	Suggested
IA32	ADVANCED DIGITAL MEDIA	NCDPI Sponsored Workshop; All 5 ACAs	Suggested
II31	ADOBE VISUAL DESIGN	ACA Photoshop, InDesign, Illustrator	Suggested
II32	ADOBE DIGITAL DESIGN	ACA Photoshop, InDesign, Illustrator	Suggested
II33	ADOBE VIDEO DESIGN	ACA Photoshop, InDesign, Illustrator	Suggested
IU10	INTRO T AND I EDUCATION		

License Area: Trade and Industrial Education—Public Safety

License Number: 74099-Public Safety

Routes: Residency, CTE Restricted

Required Degree Level:

Residency: Bachelor's

CTE Restricted: Bachelor's, Associate or High School Diploma

Examples of Related Degrees: Fire Science, Law Enforcement, EMS Management, Any Medical Related Degree such as nursing, EMT, paramedic, Environmental Management, Public Personnel Management, Critical Incident Management, Executive Fire Service Leadership, Public Safety Administration, Homeland Security, Justice of Homeland Security, Public Personnel Management, Leadership in Disaster Preparedness and Crisis Management, Paralegal and Legal Assistant, Criminal Psychologist, Forensics, Physical Education, Athletic Training, Sociology

Examples of Related Work Experience: Any area of public safety: fire, law, medical, emergency management, fire fighter, EMT, paramedic, law enforcement officer, protective services. (Volunteer service is acceptable for fire and EMT.)

Required Credentials: ANY of the following: NC Department of Public Safety in C.E.R.T. prior to teaching; NC Office of State Fire Marshall Fire Fighter II Instructor prior to teaching; NC Office of Emergency Management Systems EMT Instructor prior to teaching; International Foundation for Protective Officers (IFPO) certification within the first year of teaching

Eligible Courses:

Course #	Course	Training/Credential	Suggested/Required
IP11	PUBLIC SAFETY I		
IP12	PUBLIC SAFETY II	NCDPS C.E.R.T	Required
IP21	EMERGENCY MEDICAL TECHNOLOGY I	NCOEMS EMT Instructor	Required by outside regulating agency
IP22	EMERGENCY MEDICAL TECHNOLOGY II	NCOEMS EMT Instructor	Required by outside regulating agency
IP31	FIRE FIGHTER TECHNOLOGY I	NCOSFM Fire Fighter Instructor II	Required by outside regulating agency
IP32	FIRE FIGHTER TECHNOLOGY II	NCOSFM Fire Fighter Instructor II	Required by outside regulating agency
IP33	FIRE FIGHTER TECHNOLOGY III	NCOSFM Fire Fighter Instructor II	Required by outside regulating agency
IP41	LAW ENFORCEMENT I	Certified Protection Officer (CPO) from IFPO	Required
IP42	LAW ENFORCEMENT II	Certified Protection Officer (CPO) from IFPO	Required
IP52	EMERGENCY MANAGEMENT II		
IU10	INTRO T AND I EDUCATION		

CTE Support Services Licensing

Eligibility criteria and other requirements for CTE Support Services license areas is found in the CTE Licensure Policies and Procedures Manual ([CTED.004](#)). CTE Support Services licenses include Career Technical Education Director (711), Career Development Facilitator (747), Special Populations Coordinator (770), and Curriculum & Instructional Management Coordinator (830).

To be eligible to add a provisional support services license, candidates must have the:

- required degree,
- required work experience
- and a current continuing professional license at the time of the application.

The candidate may clear the provisional status or add the area clearly with all required criteria defined for each license in the CTE Licensure Policies and Procedures Manual.