

**NUMBERED MEMO CC23 - 023**

**To:** Presidents  
 Chief Academic Officers

**From:** Dr. Lisa Eads  
 Associate Vice President, Programs

**Subject:** Curriculum Course Review Committee Course Approvals

**Date:** July 17, 2023

The Curriculum Course Review Committee (CCRC) has the responsibility for maintaining the curriculum courses in the *Combined Course Library* (CCL). The approved course requests from the Summer 2023 CCRC meeting, held on May 24, 2023, are attached for your information. *Course revisions may involve the removal of required prerequisites or corequisites. Please note that colleges may add local prerequisites and/or corequisites if they determine a need exists.*

**Course Revision Impact to Curriculum Standards**

The CCRC approved requests to revise the **course description, prerequisite(s), corequisite(s), and/or class/lab hours** of core courses found on the curriculum standards listed below. Please note that the only change indicated on the printed standard will be the inclusion of the statement “CCRC Revised Electronic Only 05/24/23”, since only the electronic version of the standard in Colleague will be revised.

<b>Program Title</b>	<b>Program Code</b>
Equine Business	A15270
Equine Training	A15290
Information Technology	A25590
Human Services Technology/Animal Assisted Interactions	A4538F
Bioprocess Technology	A50440
Outdoor Leadership	A55330
Environmental Planning and Development	A55350
Lateral Entry Certificate	C55430

The State Board of Community Colleges has delegated authority to the Senior Vice President to approve curriculum standard changes involving **core course title and/or credit hour changes** resulting from CCRC action. The standards listed below have been revised as a result of CCRC approved changes to the credit hours of a core course.

<b>Program Title</b>	<b>Program Code</b>
Information Technology	A25590
Human Services Technology/Animal Assisted Interactions	A4538F
Outdoor Leadership	A55330

**Credit for Prior Learning Policy – Public Safety Administration and Business Technology**

The CCRC approved the proposed Credit for Prior Learning Policy (CPL) crosswalks for the following areas: Public Safety Administration and Business Technology.

Please be aware that you must implement the attached revised courses and standards no later than one year after the effective term. You must update your college’s electronic program of study and receive approval from the System Office *prior* to implementation of the revised courses and programs.

Curriculum standards, curriculum courses, and procedures for submitting requests to the CCRC are available on the Academic Programs home page at:

<http://www.nccommunitycolleges.edu/academic-programs>

If you need assistance or clarification concerning CCRC action, please contact Dr. Lisa Eads, Associate Vice President, Programs, at [eadsl@nccommunitycolleges.edu](mailto:eadsl@nccommunitycolleges.edu) or (919) 807-7133.

LE/nd

**Attachments**

- c: Curriculum Course Review Committee
  - Dr. J.W. Kelley
  - Dr. Lisa Eads
  - Ms. Michelle Lair
  - Dr. Lori Byrd
  - Ms. Reyna Rodriquez
  - Ms. Nedra Dixon
  - Ms. Peyton Bell
  - Program Coordinators

<b>Curriculum Course Requests</b>				
<b>Approved by the Curriculum Course Review Committee</b>				
<b>May 24, 2023</b>				
<b>Course Number</b>	<b>Course Title</b>	<b>Request</b>	<b>Effective Semester</b>	<b>Core Course</b>
<b>AGRICULTURE AND NATURAL RESOURCES TECHNOLOGIES</b>				
EQU 115	Principles of Therapeutic Horsemanship	Revision: Change course title from "Principles of Therapeutic Horsemanship" to "Principles of Equine Assisted Activities"; Change course description (Isothermal CC)	Early Implementation Fall 2023	A4538F
EQU 120	Horsemanship I	Revision: Change course description (Isothermal CC)	Early Implementation Fall 2023	A15270 A15290
EQU 215	Therapeutic Horse-Teaching	Revision: Change course title from "Therapeutic-Horse Teaching" to "Equine Assisted Activities-Teaching"; Change course prerequisite/s from "None" to "EQU 115"; Change course description (Isothermal CC)	Early Implementation Fall 2023	A4538F
<b>BIOLOGICAL AND CHEMICAL TECHNOLOGIES</b>				
BTC 184	Pharma Lab Techniques III	New Course (Pitt CC)	Fall 2023	N/A
<b>BUSINESS TECHNOLOGIES</b>				
BUS 136	Intro to Esports Management	New Course (Guilford Technical CC)	Fall 2023	N/A
LEX 273	NCCP Review Course	Revision: Change prerequisite from "LEX 121 and LEX 141" to "LEX 120 and LEX 140" (Forsyth Technical CC)	Summer 2024	N/A

Course Number	Course Title	Request	Effective Semester	Core Course
<b>BUSINESS TECHNOLOGIES (continued)</b>				
WEB 125	Mobile Web Design	Revision: Change course title from "Mobile Web Design" to "Responsive Web Frameworks"; Change course description (Wake Technical CC)	Summer 2024	A25590
<b>COMMERCIAL AND ARTISTIC PRODUCTION TECHNOLOGIES</b>				
DEA 133	DEA Foundation Studio I	Revision: Change Prerequisite from "DEA 111" to "None"; Change Corequisite from "None" to "DEA 111" (Forsyth Technical CC)	Summer 2024	N/A
GRD 111	Typography II	Revision: Change course hours from "2-2-0-0-3" to "2-3-0-0-3" (Pitt CC)	Early Implementation Fall 2023	N/A
GRD 230	Technical Illustration	Revision: Change prerequisite from "Take one: ART 131, DES 125 or GRD 121" to "None"; Change course description (Wake Tech CC)	Early Implementation Fall 2023	N/A
<b>ENGINEERING TECHNOLOGIES</b>				
ATR 114	Machine Reliability	New Course (Guilford Technical CC)	Fall 2023	N/A
EGR 240	Eng Practices and Principles	New Course (Blue Ridge CC)	Fall 2023	N/A
ISC 114	Visual Workplace Org/5S	New Course (Guilford Technical CC)	Fall 2023	N/A
ISC 116	Lean Mfg Principles/Practices	New Course (Guilford Technical CC)	Fall 2023	N/A
ISC 160	Prob-Solving for Adv Mfg Techs	New Course (Guilford Technical CC)	Fall 2023	N/A

Course Number	Course Title	Request	Effective Semester	Core Course
<b>INDUSTRIAL TECHNOLOGIES</b>				
BPM 111	Bioprocess Measurements	Revision: Change course prerequisites from "BIO 110 and BPM 110" to "BPM 110" (Johnston CC)	Early Implementation Fall 2023	A50440
BPM 113	Downstream Bioprocessing	Revision: Change course prerequisites from "BPM 111, CHM 131 and CHM 131A" to "BPM 111" (Johnston CC)	Early Implementation Fall 2023	A50440
<b>PUBLIC SERVICES TECHNOLOGIES</b>				
EDU 243	Learning Theory	Revision: Change course description (Stanly CC)	Early Implementation Fall 2023	C55430
EDU 244	Human Growth/ Development	Revision: Change course description (Stanly CC)	Early Implementation Fall 2023	C55430
EDU 245	Policies and Procedures	Revision: Change course description (Stanly CC)	Early Implementation Fall 2023	C55430
LET 110	Basic Law Enforcement Training	New Course (Fayetteville Technical CC)	Fall 2023	N/A
ODL 228	ODL for Special Populations	Revision: Change course title from "ODL for Special Populations" to "Diversity and Inclusion in ODL"; Change course description (Southwestern CC)	Early Implementation Fall 2023	A55330
<b>REACTIVATION OF ARCHIVED COURSES</b>				
BTB 113	Rigging Powerboats	Revision: REACTIVATION Change course hours from "2-2-0-0-3" to "2-6-0-0-4"; Change course prerequisite from "BTB-106, BTB-107, BTB-108, BTB-109" to "None"; Change course description (Carteret CC)	Spring 2024	N/A

<b>Course Number</b>	<b>Course Title</b>	<b>Request</b>	<b>Effective Semester</b>	<b>Core Course</b>
<b>REACTIVATION OF ARCHIVED COURSES (continued)</b>				
ODL 284	Principles of Ecotourism	Revision: REACTIVATION (Rockingham CC)	Fall 2023	A55350
<b>TRANSPORTATION SYSTEMS TECHNOLOGIES</b>				
BMS 119	Modern Boat Construction	New Course (Carteret CC)	Fall 2023	N/A

**Credit for Prior Learning Public Safety: Criminal Justice Technology and Public Safety Administration**

<b>Industry Certification:</b>	<b>Issuing Industry/Organization:</b>	<b>Credit Hours (SHC):</b>	<b>Course Prefix/Number/Title:</b>	<b>Additional Requirements/Suggested Evidence*:</b>
NC Correctional Officer - General	NC Department of Justice (NC DOJ) <a href="https://ncdoj.gov/">https://ncdoj.gov/</a>	9	CJC 141 Corrections (3 SHC) <b>AND</b> CJC 225 Crisis Intervention (3 SHC) <i>Plus, <b>one</b> of the following:</i> CJC 232 Civil Liability (3 SHC) <b>OR</b> CJC 233 Correctional Law (3 SHC)	N/A
Sheriffs' Detention Officer	NC Department of Justice (NC DOJ) <a href="https://ncdoj.gov/">https://ncdoj.gov/</a>	9	CJC 141 Corrections (3 SHC) <b>AND</b> CJC 225 Crisis Intervention (3 SHC) <i>Plus, <b>one</b> of the following:</i> CJC 232 Civil Liability (3 SHC) <b>OR</b> CJC 233 Correctional Law (3 SHC)	N/A
NC Probation and Parole Officer – General or Probationary	NC Department of Justice (NC DOJ) <a href="https://ncdoj.gov/">https://ncdoj.gov/</a>	3	CJC 241 Community-Based Corrections (3 SHC)	N/A
NC Juvenile Justice Officer – General or Probationary	NC Department of Justice (NC DOJ) <a href="https://ncdoj.gov/">https://ncdoj.gov/</a>	3	CJC 113 Juvenile Justice (3 SHC)	N/A
NC Juvenile Court Counselor – General or and Probationary	NC Department of Justice (NC DOJ) <a href="https://ncdoj.gov/">https://ncdoj.gov/</a>	3	CJC 113 Juvenile Justice (3 SHC)	N/A

***Credit for Prior Learning Public Safety: Emergency Management and Public Safety Administration***

<b>Industry Certification:</b>	<b>Issuing Industry/Organization:</b>	<b>Credit Hours (SHC):</b>	<b>Course Prefix/Number/Title:</b>	<b>Additional Requirements/Suggested Evidence:</b>
National Incident Management System (NIMS) ICS-100, ICS-200, ICS-300 <b>and</b> ICS-400	Federal Emergency Management Agency (FEMA)/Emergency Management Institute (EMI) <a href="https://training.fema.gov/nims/">https://training.fema.gov/nims/</a>	3	EPT 150 Incident Management	



***Credit for Prior Learning Public Safety: Emergency Medical Science and Public Safety Administration***

<b>Industry Certification:</b>	<b>Issuing Industry/Organization:</b>	<b>Credit Hours (SHC):</b>	<b>Course Prefix/Number/Title:</b>	<b>Additional Requirements/Suggested Evidence*:</b>
NC Emergency Medical Technician (EMT)	NC Office of Emergency Medical Services (NC OEMS) <a href="https://oems.nc.gov/">https://oems.nc.gov/</a>	9	EMS 110 EMT (9 SHC)	Active/current credential required
National Registered EMT	National Registry of Emergency Medical Technicians (NREMT) <a href="https://www.nremt.org/">https://www.nremt.org/</a>	9	EMS 110 EMT (9 SHC)	Active/current credential required
NC Advanced Emergency Medical Technician (AEMT)	NC Office of Emergency Medical Services (NC OEMS) <a href="https://oems.nc.gov/">https://oems.nc.gov/</a>	17	EMS 110 EMT (9 SHC) EMS 120 Advanced EMT (6 SHC) EMS 121 AEMT Clinical Practicum (2 SHC)	Active/current credential required
National Registered AEMT	National Registry of Emergency Medical Technicians (NREMT) <a href="https://www.nremt.org/">https://www.nremt.org/</a>	17	EMS 110 EMT (9 SHC) EMS 120 Advanced EMT (6 SHC) EMS 121 AEMT Clinical Practicum (2 SHC)	Active/current credential required
EMS Level I Instructor (at any EMS Credential Level)	NC Office of Emergency Medical Services (NC OEMS) <a href="https://oems.nc.gov/">https://oems.nc.gov/</a>	3	EMS 125 EMS Instructor Methodology (3 SHC)	Active/current credential required (at any EMS Credential Level)
EMS Level II Instructor (at any EMS Credential Level)	NC Office of Emergency Medical Services (NC OEMS) <a href="https://oems.nc.gov/">https://oems.nc.gov/</a>	3	EMS 125 EMS Instructor Methodology (3 SHC)	Active/current credential required (at any EMS Credential Level)

**Credit for Prior Learning Public Safety: Fire Protection Technology and Public Safety Administration**

<b>Industry Certification:</b>	<b>Issuing Industry/Organization:</b>	<b>Credit Hours (SHC):</b>	<b>Course Prefix/Number/Title:</b>	<b>Additional Requirements/Suggested Evidence*:</b>
NC Firefighter I & II	NC Office of State Fire Marshal (NC OSFM) <a href="https://www.ncosfm.gov/">https://www.ncosfm.gov/</a> and International Fire Service Accreditation Congress (IFSAC) <a href="https://ifsac.org/">https://ifsac.org/</a>	3	FIP 120 Intro to Fire Protection	N/A
NC Fire & Life Safety Educator III	NC Office of State Fire Marshal (NC OSFM) <a href="https://www.ncosfm.gov/">https://www.ncosfm.gov/</a> and International Fire Service Accreditation Congress (IFSAC) <a href="https://ifsac.org/">https://ifsac.org/</a>	3	FIP 124 Fire Prevention & Public Ed	N/A
NC Fire Investigator Technician (FIT)	International Association of Arson Investigators (IAAI) <a href="https://www.firearson.com/">https://www.firearson.com/</a>	3	FIP 128 Detection and Investigation	N/A
NC Certified Fire Investigator (CFI)	NC Office of State Fire Marshal (NC OSFM) <a href="https://www.ncosfm.gov/">https://www.ncosfm.gov/</a> and International Fire Service Accreditation Congress (IFSAC) <a href="https://ifsac.org/">https://ifsac.org/</a>	3	FIP 128 Detection and Investigation	N/A

Industry Certification:	Issuing Industry/Organization:	Credit Hours (SHC):	Course Prefix/Number/Title:	Additional Requirements/Suggested Evidence*:
NC Fire Prevention Inspector Level I (Standard Certificate)	NC Office of State Fire Marshal (NC OSFM) <a href="https://www.ncosfm.gov/">https://www.ncosfm.gov/</a>	3	FIP 136 Inspection and Codes	N/A
NC Fire Instructor II	NC Office of State Fire Marshal (NC OSFM) <a href="https://www.ncosfm.gov/">https://www.ncosfm.gov/</a> and International Fire Service Accreditation Congress (IFSAC) <a href="https://ifsac.org/">https://ifsac.org/</a>	3	FIP 224 Fire Instructor I & II	N/A
NC Hazardous Materials Technician	NC Office of State Fire Marshal (NC OSFM) <a href="https://www.ncosfm.gov/">https://www.ncosfm.gov/</a> and International Fire Service Accreditation Congress (IFSAC) <a href="https://ifsac.org/">https://ifsac.org/</a>	5	FIP 230 Chemistry of Haz-Mat	N/A
NC Level II Hazardous Materials Responder	NC Office of State Fire Marshal (NC OSFM) <a href="https://www.ncosfm.gov/">https://www.ncosfm.gov/</a> and International Fire Service Accreditation Congress (IFSAC) <a href="https://ifsac.org/">https://ifsac.org/</a>	5	FIP 230 Chemistry of Haz-Mat	N/A

Industry Certification:	Issuing Industry/Organization:	Credit Hours (SHC):	Course Prefix/Number/Title:	Additional Requirements/Suggested Evidence*:
NC Fire Officer II	NC Office of State Fire Marshal (NC OSFM) <a href="https://www.ncosfm.gov/">https://www.ncosfm.gov/</a> and International Fire Service Accreditation Congress (IFSAC) <a href="https://ifsac.org/">https://ifsac.org/</a>	3 or 4	Choose Any <b><u>One</u></b> of the Following: FIP 226 Fire Officer I & II (4 SHC) <b><u>OR</u></b> FIP 240 Fire Service Supervision (3 SHC) <b><u>OR</u></b> FIP 248 Fire Service Personnel Administration (3 SHC) <b><u>OR</u></b> FIP 276 Managing the Fire Service (3 SHC)	N/A

**Credit for Prior Learning: Business Technologies Logistics, Analytics and Project Management**

<b>Industry Certification:</b>	<b>Issuing Industry/Organization:</b>	<b>Credit Hours (SHC):</b>	<b>Course Prefix/Number/Title:</b>	<b>Additional Requirements/Suggested Evidence:</b>
Certified in Planning and Inventory Management CPIM	Association for Supply Chain Management (ASCM) <a href="https://www.ascm.org/">https://www.ascm.org/</a>	3	LOG 110 Introduction to Logistics	Non-Expired Certification
		3	<b>AND</b> LOG 215 Supply Chain Management	
		3	<b>OR</b> LOG 110 Introduction to Logistics	
		3	<b>AND</b> LOG 220 Logistics Management	
Certified Supply Chain Professional (CSCP)	Association for Supply Chain Management (ASCM) <a href="https://www.ascm.org/">https://www.ascm.org/</a>	3	LOG 110 Introduction to Logistics	Non-Expired Certification
		3	<b>AND</b> LOG 240 Purchasing Logistics	
Certified in Logistics, Transportation and Distribution (CLTD)	Association for Supply Chain Management (ASCM) <a href="https://www.ascm.org/">https://www.ascm.org/</a>	3	LOG 120 Global Logistics	Non-Expired Certification
		3	<b>AND</b> LOG 211 Distribution Management	
		3	<b>OR</b> LOG 125 Transportation Logistics	
		3	<b>AND</b> LOG 211 Distribution Management	
Supply Chain Professional (SCPRO)	Council of Supply Chain Management Professionals (CSCMP) <a href="https://www.cscmp.org/">https://www.cscmp.org/</a>	3	LOG 110 Introduction to Logistics	Non-Expired Certification
		3	<b>AND</b> LOG 215 Supply Chain Management	

Industry Certification:	Issuing Industry/Organization:	Credit Hours (SHC):	Course Prefix/Number/Title:	Additional Requirements/Suggested Evidence:
Certified Professional Supply Management (CPSM)	<a href="http://www.ismworld.org/">Institute for Supply Management</a> <a href="https://www.ismworld.org/">https://www.ismworld.org/</a>	3	LOG 110 Introduction to Logistics	Non-Expired Certification
		3	<b>AND</b> LOG 240 Purchasing Logistics	
		3	<b>OR</b> LOG 110 Introduction to Logistics	
		3	<b>AND</b> BUS 173 Procurement Management	
Certified Logistics Technician (CLT)	Manufacturing Standards Skills Council <a href="https://msscusa.org">https://msscusa.org</a>	3	LOG 110 Introduction to Logistics	Non-Expired Certification
		3	<b>AND</b> LOG 211 Distribution Management	
SAS Certified Specialist: Base Programming (SAS Base Programming Specialist)	Statistical Analytical Systems <a href="https://sas.org">https://sas.org</a>	3	BAS 150 Intro to Analytical Program	Non-Expired Certification
		3	<b>AND</b> BAS 220 Appl. Analytical Program	
Project Management Professional (PMP)	Project Management Institute <a href="https://pmi.org">https://pmi.org</a>	3	PMT 110 Intro to Project Mgmt	Non-Expired Certification
		3	<b>AND</b> PMT 111 Project Mgmt Assessing Risk	
Certified Associate in Project Management (CAPM)	Project Management Institute <a href="https://pmi.org">https://pmi.org</a>	3	OMT 222 Project Management	Non-Expired Certification

***Credit for Prior Learning: Medical Office Administration/Office Administration/Healthcare Management Technology***

<b>Industry Certification:</b>	<b>Issuing Industry/Organization:</b>	<b>Credit Hours (SHC):</b>	<b>Course Prefix/Number/Title:</b>	<b>Additional Requirements/Suggested Evidence:</b>
Certified Professional Coder (CPC)	American Academy of Professional Coders <a href="https://aapc.com">https://aapc.com</a>	3	OST 247 Procedure Coding	Non-Expired Certification
		3	<b>AND</b> OST 248 Diagnostic Coding	
		3	<b>AND</b> OST 249 Med Coding Certification Prep	
Certified Professional Biller (CPB)	American Academy of Professional Coders <a href="https://aapc.com">https://aapc.com</a>	3	OST 148 Med Ins & Billing <b>OR</b> HMT 210 Medical Insurance	Non-Expired Certification
Certified Professional Medical Auditor (CPMA)	American Academy of Professional Coders <a href="https://aapc.com">https://aapc.com</a>	3	OST 264 Medical Auditing	Non-Expired Certification
		3	<b>AND</b> OST 265 Healthcare Com & Reg	
		3	<b>AND</b> OST 266 Adv Medical Auditing	
Certified Physician Practice Manager (CPPM)	American Academy of Professional Coders <a href="https://aapc.com">https://aapc.com</a>	3	OST 288 Medical Office Admin Capstone	Non-Expired Certification
		3	<b>OR</b> HMT 225 Practice Mgmt. Simulation	

Industry Certification:	Issuing Industry/Organization:	Credit Hours (SHC):	Course Prefix/Number/Title:	Additional Requirements/Suggested Evidence:
Certified Professional Compliance Officer - CPCO	American Academy of Professional Coders <a href="https://aapc.com">https://aapc.com</a>	3 3	OST 149 Medical Legal Issues (3 SHC) <b>AND</b> OST 265 Healthcare Comp & Reg (3 SHC)	Non-Expired Certification
Certified Coding Specialist (CCS)	American Health Information Management Association <a href="https://www.ahima.org">https://www.ahima.org</a>	3 3 3	OST 247 Procedure Coding (3 SHC) <b>AND</b> OST 248 Diagnostic Coding (3 SHC) <b>AND</b> OST 249 Med Coding Certification Prep (3 SHC)	Non-Expired Certification
Certified Coding Specialist-Physician Based (CCS-P)	American Health Information Management Association <a href="https://www.ahima.org">https://www.ahima.org</a>	3 3 3	OST 247 Procedure Coding (3 SHC) <b>AND</b> OST 248 Diagnostic Coding (3 SHC) <b>AND</b> OST 249 Med Coding Certification Prep (3 SHC)	Non-Expired Certification
Certified Electronic Health Record Specialist (CEHRS)	National Healthcareer Association <a href="https://www.nhanow.com">https://www.nhanow.com</a>	3	OST 280 Electronic Health Records (3 SHC)	Non-Expired Certification
Certified Medical Administrative Assistant (CMAA)	National Healthcareer Association <a href="https://www.nhanow.com">https://www.nhanow.com</a>	3 3 3	OST 243 Med Office Simulation (3 SHC) <b>OR</b> OST 288 Medical Office Admin Capstone (3 SHC) <b>OR</b> HMT 225 Practice Mgmt. Simulation (3 SHC)	Non-Expired Certification



## Curriculum Standard for Information Technology

**Career Cluster:** Web and Digital Communications, Information Support and Services, Programming and Software Development, and Network Systems.

**Cluster Description:** Building linkages in IT occupations framework: for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multi-media, and systems integration services.

**Pathway:** Information Technology

**Effective Term:** Spring 2022 (2022\*01)

### Program Major Under Pathway

Program Major / Classification of Instruction Programs (CIP) Code	Credential Level(s) Offered	Program Major Code
Information Technology	CIP Code: 11.0103	AAS/Diploma/Certificate
		A25590

### Pathway Description:

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

### I. General Education Academic Core

*Curriculum Requirements for associate degree, diploma, and certificate programs in accordance with 1 D SBCC 400.10: Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.*

### Information Technology

Recommended General Education Academic Core	AAS	Diploma	Certificate																												
<b>Minimum General Education Hours Required:</b>	<b>15 SHC</b>	<b>6 SHC</b>	<b>0 SHC</b>																												
<p><i>Courses listed below are recommended general education courses for this curriculum standard. Colleges may choose to include additional or alternative general education courses to meet local curriculum needs.</i></p> <p><b>Communication:</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">COM</td> <td style="width: 10%;">110</td> <td style="width: 40%;">Introduction to Communication</td> <td style="width: 10%;">3 SHC</td> </tr> <tr> <td>COM</td> <td>120</td> <td>Intro Interpersonal Com</td> <td>3 SHC</td> </tr> <tr> <td>COM</td> <td>231</td> <td>Public Speaking <b>U</b></td> <td>3 SHC</td> </tr> <tr> <td>ENG</td> <td>111</td> <td>Writing and Inquiry <b>U</b></td> <td>3 SHC</td> </tr> <tr> <td>ENG</td> <td>112</td> <td>Writing/Research in the Disc <b>U</b></td> <td>3 SHC</td> </tr> <tr> <td>ENG</td> <td>114</td> <td>Prof Research &amp; Reporting</td> <td>3 SHC</td> </tr> <tr> <td>ENG</td> <td>116</td> <td>Technical Report Writing</td> <td>3 SHC</td> </tr> </table>	COM	110	Introduction to Communication	3 SHC	COM	120	Intro Interpersonal Com	3 SHC	COM	231	Public Speaking <b>U</b>	3 SHC	ENG	111	Writing and Inquiry <b>U</b>	3 SHC	ENG	112	Writing/Research in the Disc <b>U</b>	3 SHC	ENG	114	Prof Research & Reporting	3 SHC	ENG	116	Technical Report Writing	3 SHC	<b>6 SHC</b>	<b>3-6 SHC</b>	<b>Optional</b>
COM	110	Introduction to Communication	3 SHC																												
COM	120	Intro Interpersonal Com	3 SHC																												
COM	231	Public Speaking <b>U</b>	3 SHC																												
ENG	111	Writing and Inquiry <b>U</b>	3 SHC																												
ENG	112	Writing/Research in the Disc <b>U</b>	3 SHC																												
ENG	114	Prof Research & Reporting	3 SHC																												
ENG	116	Technical Report Writing	3 SHC																												

\*Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers. Approved by the State Board of Community Colleges on September 18, 2015. Editorial revision September 21, 2015; Editorial Revision 09/25/15; CRC Revised 10/22/15; CRC Revised 05/26/16; CRC Revised—Electronic Only 05/25/17; Prefix addition 09/18/17; CCRC Revised—Electronic Only 05/23/19; CCRC Revised—Electronic Only (RISE Initiative) 10/24/19; Revised 02/13/20; CCRC Electronic Only 2/25/21; CCRC Revised 02/25/21; Prefix Addition 5/24/21; CCRC Revised 5/27/21; Prefix Addition 3/17/22; CCRC Revised 05/24/2023.

<b>Humanities/Fine Arts:</b>				<b>3 SHC</b>	<b>0-3 SHC</b>	<b>Optional</b>
ART	111	Art Appreciation <b>U</b>	3 SHC			
HUM	110	Technology and Society	3 SHC			
HUM	115	Critical Thinking	3 SHC			
HUM	230	Leadership Development	3 SHC			
MUS	110	Music Appreciation <b>U</b>	3 SHC			
PHI	240	Introduction to Ethics <b>U</b>	3 SHC			
<b>Social/Behavioral Sciences:</b>				<b>3 SHC</b>	<b>0-3 SHC</b>	<b>Optional</b>
ECO	151	Survey of Economics	3 SHC			
ECO	251	Prin of Microeconomics <b>U</b>	3 SHC			
ECO	252	Prin of Macroeconomics <b>U</b>	3 SHC			
POL	120	American Government <b>U</b>	3 SHC			
PSY	118	Interpersonal Psychology	3 SHC			
PSY	150	General Psychology <b>U</b>	3 SHC			
SOC	210	Introduction to Sociology <b>U</b>	3 SHC			
<b>Natural Sciences/Mathematics:</b>				<b>3-4 SHC</b>	<b>0-3 SHC</b>	<b>Optional</b>
MAT	110	Math Measurement and Literacy	3 SHC			
MAT	121	Algebra/Trigonometry I	3 SHC			
MAT	143	Quantitative Literacy <b>U</b>	3 SHC			
MAT	152	Statistical Methods I <b>U</b>	4 SHC			
MAT	171	Precalculus Algebra <b>U</b>	4 SHC			
<p><b>U</b> indicates a Universal General Education Transfer Component (UGETC) course included in the Comprehensive Articulation Agreement. UGETC courses are guaranteed to transfer to any of the sixteen University of North Carolina senior institutions as equivalent credit within defined distribution limits.</p>						

**II. Major Hours.** AAS, diploma, and certificate programs must include courses that offer specific job knowledge and skills. Work Based Learning (WBL) may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. Below is a description of each section under Major Hours.

- A. Technical Core.** The technical core is comprised of specific courses which are required for all Program Majors under this Curriculum Standard. A diploma program offered under an approved AAS program standard or a certificate, which is the highest credential level awarded under an approved AAS program standard, must include a minimum of 12 semester hours of credit derived from the curriculum core courses or core subject area of the AAS program.
- B. Program Major(s).** The Program Major must include a minimum of 12 semester hours of credit from required subjects and/or courses.
- C. Other Major Hours.** Other Major Hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from each prefix listed, with the exception of prefixes listed in the core.

<b>Information Technology</b>	<b>AAS</b>	<b>Diploma</b>	<b>Certificate</b>
<b>Minimum Major Hours Required:</b>	<b>49 SHC</b>	<b>30 SHC</b>	<b>12 SHC</b>
<b>A. Technical Core:</b> <i>A diploma offered under this AAS degree requires a minimum of 12 SHC extracted from the required subject/course core of the AAS degree</i>	<b>18-27 SHC</b>	<b>12 SHC</b>	
CTS 115 Info Sys Business Concepts 3 SHC CTI 110 Web, Pgm, & DB Foundation 3 SHC CTI 120 Network & Sec Foundation 3 SHC  <i>Select one:</i> CET 111 Computer Upgrade/Repair I 3 SHC CIS 110 Introduction to Computers 3 SHC CIS 115 Intro to Prog and Logic 3 SHC CSC 120 Computing Fundamentals I 4 SHC CTI 115 Computer Systems Foundation 3 SHC CTI 130 Os and Device Foundation 6 SHC CTS 120 Hardware/Software Support 3 SHC NOS 110 Operating Systems Concepts 3 SHC OST 137 Office Applications I 3 SHC WEB 110 Internet/WEB Fundamentals 3 SHC			
<b>Information Technology            Required Subject Areas (Select one subject area):</b>			
<b>Information Systems</b> <i>12 SHC to be selected from:</i> CIS, CTI, CTS, DME, NOS and/or WEB prefixes			
<b>Computer Programming and Development</b> <i>Select one:</i> CSC 134 C++ Programming 3 SHC CSC 139 Visual BASIC Programming 3 SHC CSC 151 JAVA Programming 3 SHC CSC 153 C# Programming 3 SHC  <i>Select one:</i> CSC 234 Advanced C++ Programing 3 SHC CSC 239 Advanced Visual BASIC Prog 3 SHC CSC 249 Data Structure & Algorithms 3 SHC CSC 251 Advanced JAVA Programing 3 SHC CSC 253 Advanced C# Programing 3 SHC			
<b>Database Administration and Data Center Technologies</b> <i>Select two:</i> BAS 120 Intro to Analytics 3 SHC DBA 120 Database Programming I 3 SHC DBA 210 Database Administration 3 SHC CTI 140 Virtualization Concepts 3 SHC CTI 141 Cloud & Storage Concepts 3 SHC NOS 120 Linux/UNIX Single User 3 SHC			
<b>Data Management</b> <i>Select two:</i> BUS 228 Business Statistics 3 SHC CTS 130 Spreadsheet 3 SHC DBA 110 Database Concepts 3 SHC DBA 115 Database Applications 3 SHC DBA 120 Database Programming I 3 SHC			

<b>Data Support Services</b>						
<i>Select two:</i>						
DBA	110	Database Concepts	3 SHC			
DBA	115	Database Applications	3 SHC			
DBA	120	Database Programming I	3 SHC			
DBA	220	Oracle DB Programming II	3 SHC			
DBA	221	SQL Server DB Prog II	3 SHC			
DBA	240	Database Analysis/ Design	3 SHC			
<b>Digital Media Production</b>						
<i>Select two:</i>						
DME	110	Intro to Digital Media	3 SHC			
DME	115	Graphic Design Tools	3 SHC			
DME	120	Intro to Multimedia Appl	3 SHC			
DME	130	Digital Animation I	3 SHC			
WEB	210	Web Design	3 SHC			
<b>Game and Simulation Programming</b>						
<i>Select one:</i>						
CSC	134	C++ Programming	3 SHC			
CSC	151	JAVA Programming	3 SHC			
CSC	153	C# Programming	3 SHC			
SGD	113	SGD Programming I	3 SHC			
<i>Select one:</i>						
SGD	111	Introduction to SGD	3 SHC			
SGD	112	SGD Design I	3 SHC			
<b>Healthcare Informatics</b>						
HBI	110	Issues and Trends in HBI	3 SHC			
<i>Select one:</i>						
DBA	110	Database Concepts	3 SHC			
DBA	120	Database Programming I	3 SHC			
DBA	210	Database Administration	3 SHC			
HBI	113	Survey of Med Insurance	3 SHC			
<b>IT Business Support</b>						
<i>Select two:</i>						
CTS	130	Spreadsheet	3 SHC			
CTS	240	Project Management	3 SHC			
DBA	110	Database Concepts	3 SHC			
DBA	240	Database Analysis/Design	3 SHC			
WEB	151	Mobile Applications Dev I	3 SHC			
<b>Mobile Applications Developer</b>						
<i>Select two:</i>						
CTI	150	Mobile Computing Devices	3 SHC			
WEB	125	Responsive Web Frameworks	3 SHC			
WEB	141	Mobile Interface Design	3 SHC			
WEB	151	Mobile Applications Dev I	3 SHC			
WEB	251	Mobile Applications Dev II	3 SHC			
<b>Network Management</b>						
<i>Select one:</i>						
NET	110	Networking Concepts	3 SHC			
NET	125	Introduction to Networks	3 SHC			
<i>Select one:</i>						
CTI	140	Virtualization Concepts	3 SHC			
CTI	141	Cloud & Storage Concepts	3 SHC			
NET	126	Switching and Routing	3 SHC			
NOS	120	Linux/UNIX Single User	3 SHC			
NOS	230	Windows Administration I	3 SHC			

<b>Network Telecommunications</b>						
<i>Select two:</i>						
NET	125	Introduction to Networks	3 SHC			
NET	130	Convergence Concepts	3 SHC			
NET	241	Introduction to VOIP	3 SHC			
TNE	111	Campus Networks I	3 SHC			
TNE	250	Intro to Telecom Networks	3 SHC			
<b>Software and Web Development</b>						
<i>Select two:</i>						
CSC	139	Visual BASIC Programming	3 SHC			
CSC	143	Object-Oriented Prog	3 SHC			
CSC	151	JAVA Programming	3 SHC			
CSC	153	C# Programming	3 SHC			
DBA	120	Database Programming I	3 SHC			
WEB	115	Web Markup and Scripting	3 SHC			
<b>Support and Services</b>						
CTS	155	Tech Support Functions	3 SHC			
<i>Select one:</i>						
CET	211	Computer Upgrade/Repair II	3 SHC			
CTS	135	Integrated Software Intro	4 SHC			
CTS	220	Adv Hard/Software Support	3 SHC			
CTS	250	User Support & Software Eval	3 SHC			
CTS	255	Adv Tech Support Functions	3 SHC			
CTS	272	Desktop Support: Apps	3 SHC			
<b>Systems Security</b>						
SEC	110	Security Concepts	3 SHC			
<i>Select one:</i>						
CCT	110	Intro to Cyber Crime	3 SHC			
NET	110	Networking Concepts	3 SHC			
NET	125	Introduction to Networks	3 SHC			
SEC	150	Secure Communications	3 SHC			
SEC	160	Security Administration I	3 SHC			
<b>Web Administration and Design</b>						
<i>Select two:</i>						
DBA	120	Database Programming I	3 SHC			
NOS	120	Linux/UNIX Single User	3 SHC			
NOS	230	Windows Administration I	3 SHC			
WEB	115	Web Markup and Scripting	3 SHC			
WEB	210	Web Design	3 SHC			
WEB	250	Database Driven Websites	3 SHC			

**C. Other Major Hours.**

*To be selected from the following prefixes:*

ACC, ART, ATR, BAS, BUS, CCT, CET, CIS, CJC, CSC, CTI, CTS, DBA, DEA, DES, DFT, DME, ECM, ECO, EDU, EGR, ELC, ELN, ETR, GIS, GRA, GRD, HBI, HIT, HMT, ISC, ITN, MAT, MCO, MED, MIT, MKT, NET, NOS, OMT, OST, PCI, PHO, PMT, SEC, SGD, SGR, TNE, WBL, and WEB.

*Up to two semester hour credits may be selected from ACA.*

*Three semester hour credits may be selected from PTE.*

*Up to three semester hour credits may be selected from the following prefixes: ARA, ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS, and SPA.*

### III. Other Required Hours

A college may include courses to meet graduation or local employer requirements in a certificate (0-1 SHC), diploma (0-4 SHC), or an associate in applied science (0-7 SHC) program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as Other Required Hours.

### IV. Employability Competencies

Fundamental competencies that address soft skills vital to employability, personal, and professional success are listed below. Colleges are encouraged to integrate these competencies into the curriculum by embedding appropriate student learning outcomes into one or more courses or through alternative methods.

- A. Interpersonal Skills and Teamwork** – The ability to work effectively with others, especially to analyze situations, establish priorities, and apply resources for solving problems or accomplishing tasks
- B. Communication** – The ability to effectively exchange ideas and information with others through oral, written, or visual means
- C. Integrity and Professionalism** – Workplace behaviors that relate to ethical standards, honesty, fairness, respect, responsibility, self-control, criticism and demeanor
- D. Problem-solving** – The ability to identify problems and potential causes while developing and implementing practical action plans for solutions
- E. Initiative and Dependability** – Workplace behaviors that relate to seeking out new responsibilities, establishing and meeting goals, completing tasks, following directions, complying with rules, and consistent reliability
- F. Information processing** – The ability to acquire, evaluate, organize, manage, and interpret information
- G. Adaptability and Lifelong Learning** – The ability to learn and apply new knowledge and skills and adapt to changing technologies, methods, processes, work environments, organizational structures and management practices
- H. Entrepreneurship** – The knowledge and skills necessary to create opportunities and develop as an employee or self-employed business owner

*\*\*The North Carolina Career Clusters Guide was developed by the North Carolina Department of Public Instruction and the North Carolina Community College system to link the academic and Career and Technical Education programs at the secondary and postsecondary levels to increase student achievement. Additional information about Career Clusters is located at:*

[http://www.nc-net.info/NC\\_career\\_clusters\\_guide.php](http://www.nc-net.info/NC_career_clusters_guide.php) or <http://www.careertech.org/>

*Summary of Required Semester Hour Credits (SHC) for each credential:*

	<b>AAS</b>	<b>Diploma</b>	<b>Certificate</b>
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
<b>Total Semester Hours Credit (SHC)</b>	<b>64-76</b>	<b>36-48</b>	<b>12-18</b>

# CURRICULUM STANDARD

Effective Term  
Fall 2019  
[2019\*03]

Curriculum Program Title	<b>Human Services Technology</b>	Program Code	<b>A4538F</b>
Concentration	<b>Animal Assisted Interactions</b>	CIP Code	<b>51.2313</b>

## ***Curriculum Description***

The Human Services Technology/Animal Assisted Interactions concentration prepares individuals for entry-level positions in service organizations providing animal interactions. The curriculum prepares students to incorporate specially- selected animals in goal-directed interactions to mental/physical disabilities, social, emotional, and/or cognitive functioning in people.

Course work includes a history of the field of animal interventions, scientific evidence regarding the benefits of interactions, theoretical models, application of the human-animal bond and current trends. Students gain skills in measurement methodology and in animal handling and management.

Graduates should qualify for employment in mental health, physical disabilities, youth services, social services, rehabilitation, correction, elder, and educational agencies. Upon completion of the degree, students may be eligible for certification through national or international organizations.

## ***Curriculum Requirements\****

***[for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.10]***

- I. **General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- II. **Major Hours.** AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. *(See second page for additional information.)*
- III. **Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	<b>AAS</b>	<b>Diploma</b>	<b>Certificate</b>
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
<b>Total Semester Hours Credit in Program</b>	<b>64-76</b>	<b>36-48</b>	<b>12-18</b>

*\*Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.*

## Major Hours

- A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- B. Concentration** *(if applicable)*. A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

### Human Services Technology A4538F

	AAS	Diploma	Certificate
<b>Minimum Major Hours Required</b>	<b>49 SHC</b>	<b>30 SHC</b>	<b>12 SHC</b>
<b>A. CORE</b> <i>Courses required for the diploma are designated with *</i>  <b>Required Courses:</b> HSE 110 Introduction to Human Services 3 SHC HSE 112 Group Process I 2 SHC HSE 123 Interviewing Techniques 3 SHC HSE 125 Counseling 3 SHC HSE 210 Human Services Issues 2 SHC HSE 225 Crisis Intervention 3 SHC PSY 150 General Psychology 3 SHC  <b>Required Subject Areas:</b> <b>Psychology. Select one:</b> PSY 110 Life Span Development 3 SHC PSY 241 Developmental Psychology 3 SHC PSY 281 Abnormal Psychology 3 SHC  <b>Sociology. Select one:</b> SOC 210 Introduction to Sociology 3 SHC SOC 213 Sociology of the Family 3 SHC SOC 220 Social Problems 3 SHC	<b>25 SHC</b>		
<b>B. CONCENTRATION</b> <b>Select one concentration track:</b> <i>Courses unique to the concentration are designated with **</i>  ** AAI 110 Animal Interactions Intro 1 SHC AAI 120 Animals in Human Lives 3 SHC ** AAI 130 Animal Handling Skills 3 SHC ** AAI 210 Interaction Methodology 3 SHC ** AAI 220 Interaction Documentation 3 SHC OR ** EQU 110 Intro Therapeutic Horsemanship 2 SHC ** EQU 115 Prin of Equine Assisted Act 3 SHC ** EQU 125 Equine Behavior 3 SHC ** EQU 210 Training The Therapeutic Horse 2 SHC ** EQU 215 Equine Assisted Act-Teaching 2 SHC	<b>13 SHC</b>          <b>12 SHC</b>		



<p><b>C. OTHER MAJOR HOURS</b>  <i>To be selected from the following prefixes:</i></p> <p>AAI, BIO, BUS, CIS, CSC, DDT, EQU, GRO, HEA, HSC, HSE, MED, MHA, OST, PBT, POL, PSY, SAB, SOC, SWK, WBL, and WEB</p> <p><i>Up to two semester hour credits may be selected from ACA.</i></p> <p><i>Three semester hour credits may be selected from PTE.</i></p> <p><i>Up to three semester hour credits may be selected from the following prefixes: ARA, ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS and SPA</i></p>			
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## Curriculum Standard for Education/Training: Outdoor Leadership

**Career Cluster:** Education & Training \*\*

**Cluster Description:** Planning, managing and providing education and training services, and related learning support services.

**Pathway:** Education/Training: Outdoor Leadership

**Effective Term:** Fall 2013 (2013\*03)

### Program Majors Under Pathway

Program Major / Classification of Instruction Programs (CIP) Code	Credential Level(s) Offered	Program Major Code
Outdoor Leadership	CIP Code 31.0601	AAS/Diploma/Certificate A55330

**Pathway Description:**

This curriculum is designed to prepare individuals to be successful professionals in outdoor adventure, education and leadership.

Course work includes technical training in the areas such as backpacking, canoeing, kayaking, and rock-climbing. These skills are taught through facilitation and experiential learning methodologies. This course of study includes interpersonal skills and leadership skills such as group process, conflict resolution, program planning, and management issues.

Graduates from this program will have a sound background in outdoor leadership blended with a solid foundation of general education, business, and computer skills. Graduates are prepared for employment in the adventure tourism industry, therapeutic wilderness programs, specialized adventure/leadership programs, adventure programs for youth, challenge course industry, city, county, and state outdoor programs, public and private outdoor education centers, and private and public school outdoor programs.

*Program Major Description: Choose one of the following 4<sup>th</sup> paragraphs to use in conjunction with the first three paragraphs of the pathway description above for documentation used to identify each **Program Major**:*

**Outdoor Leadership:** A program that prepares individuals to work as an educator, instructor or facilitator in parks, recreational facilities, camps and other outdoor settings. Potential course work includes instruction in leadership skills, wilderness survival skills, first aid, group processes, counseling techniques, environmental studies and instruction in recreational activities such as rock climbing, ropes courses, backpacking, kayaking and canoeing.

\*Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Approved by the State Board of Community Colleges on August 16, 2012; SBCC Revised 01/18/13; Editorial Revision 02/20/13; Editorial Revision 08/21/13; CRC Revised—Electronic Only 02/05/14; Editorial Revision 03/07/14; SBCC Revised 03/17/17; CCRC Revised—Electronic Only 05/24/18; CCRC Revised—Electronic Only (RISE Initiative) 10/24/19; CCRC Revised 05/24/2023.

## I. General Education Academic Core

[Curriculum Requirements for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.10]: Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.

### Education/Training: Outdoor Leadership

Recommended General Education Academic Core	AAS	Diploma	Certificate
<b>Minimum General Education Hours Required:</b>	<b>15 SHC</b>	<b>6 SHC</b>	<b>0 SHC</b>
<i>The courses listed below are recommended general education courses for this curriculum standard. Colleges may choose to include additional or alternative general education courses to meet local curriculum needs.</i>			
<i>*Recommended certificate and diploma level curriculum courses. These courses may <u>not</u> be included in associate degree programs.</i>			
<b>Communication:</b>	<b>6 SHC</b>	<b>3-6 SHC</b>	<b>Optional</b>
<ul style="list-style-type: none"> <li>*COM 101 Workplace Communication 3 SHC</li> <li>COM 110 Introduction to Communication 3 SHC</li> <li>COM 120 Intro Interpersonal Com 3 SHC</li> <li>COM 231 Public Speaking 3 SHC</li> <li>*ENG 101 Applied Communications I 3 SHC</li> <li>*ENG 102 Applied Communications II 3 SHC</li> <li>ENG 110 Freshman Composition 3 SHC</li> <li>ENG 111 Expository Writing 3 SHC</li> <li>ENG 112 Argument-Based Research 3 SHC</li> <li>ENG 114 Prof Research &amp; Reporting 3 SHC</li> <li>ENG 115 Oral Communication 3 SHC</li> <li>ENG 116 Technical Report Writing 3 SHC</li> </ul>			
<b>Humanities/Fine Arts:</b>	<b>3 SHC</b>	<b>0-3 SHC</b>	<b>Optional</b>
<ul style="list-style-type: none"> <li>*HUM 101 Values in the Workplace 2 SHC</li> <li>HUM 110 Technology and Society 3 SHC</li> <li>HUM 115 Critical Thinking 3 SHC</li> <li>HUM 230 Leadership Development 3 SHC</li> <li>PHI 230 Introduction to Logic 3 SHC</li> <li>PHI 240 Introduction to Ethics 3 SHC</li> </ul>			
<b>Social /Behavioral Sciences:</b>	<b>3 SHC</b>	<b>0-3 SHC</b>	<b>Optional</b>
<ul style="list-style-type: none"> <li>ECO 151 Survey of Economics 3 SHC</li> <li>ECO 251 Prin of Microeconomics 3 SHC</li> <li>GEO 110 Introduction to Geography 3 SHC</li> <li>GEO 111 World Regional Geography 3 SHC</li> <li>*PSY 101 Applied Psychology 3 SHC</li> <li>*PSY 102 Human Relations 2 SHC</li> <li>PSY 118 Interpersonal Psychology 3 SHC</li> <li>PSY 135 Group Processes 3 SHC</li> <li>PSY 150 General Psychology 3 SHC</li> <li>*SOC 105 Social Relationships 3 SHC</li> <li>SOC 210 Introduction to Sociology 3 SHC</li> <li>SOC 215 Group Processes 3 SHC</li> </ul>			
<b>Natural Sciences/Mathematics:</b>	<b>3 SHC</b>	<b>0-3 SHC</b>	<b>Optional</b>
<ul style="list-style-type: none"> <li>BIO 140 Environmental Biology 3 SHC</li> <li>BIO 160 Introductory Life Science 3 SHC</li> <li>MAT 110 Math Measurement &amp; Literacy 3 SHC</li> <li>MAT 121 Algebra/Trigonometry I 3 SHC</li> <li>MAT 143 Quantitative Literacy 3 SHC</li> <li>MAT 152 Statistical Methods I 4 SHC</li> <li>PHY 110 Conceptual Physics 3 SHC</li> <li>PHY 121 Applied Physics I 4 SHC</li> </ul>			

**II. Major Hours.** AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester

hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. Below is a description of each section under Major Hours.

- A. Technical Core.** The technical core is comprised of specific courses which are required for all Program Majors under this Curriculum Standard. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the curriculum core courses or core subject area of the AAS program.
- B. Program Major(s).** The Program Major must include a minimum of 12 semester hours credit from required subjects and/or courses. The Program Major is in addition to the technical core.
- C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from each prefix listed, with the exception of prefixes listed in the core.

<b>Education/Training: Outdoor Leadership</b>	<b>AAS</b>	<b>Diploma</b>	<b>Certificate</b>
<b>Minimum Major Hours Required:</b>	<b>49 SHC</b>	<b>30 SHC</b>	<b>12 SHC</b>
<b>A. Technical Core:</b>	<b>34 SHC</b>		
ODL 110 Introduction to Outdoor Leadership 3 SHC			
ODL 115 Methods of Experiential Education 3 SHC			
ODL 120 Challenge Course Facilitation 3 SHC			
ODL 125 Wilderness First Responder 4 SHC			
ODL 130 Water Based Activities I 3 SHC			
ODL 135 Land Based Activities I 3 SHC			
<b>B. Program Major(s):</b>			
<b>Outdoor Leadership</b>			
ODL 210 Water Based Activities II 3 SHC			
ODL 212 Land Based Activities II 3 SHC			
ODL 215 Admin & Policy Public Lan 3 SHC			
ODL 220 Climbing 3 SHC			
ODL 228 Diversity & Inclusion in ODL 3 SHC			

**C. Other Major Hours.**  
*To be selected from the following prefixes:*

BUS, CIS, EMS, ETR, MED, ODL, PED, REC, WBL, and WEB.

*Up to two semester hour credits may be selected from ACA.*

*Three semester hour credits may be selected from PTE.*

*Up to three semester hour credits may be selected from the following prefixes: ARA, ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS, and SPA.*

### III. Other Required Hours

A college may include courses to meet graduation or local employer requirements in a certificate (0-1 SHC), diploma (0-4 SHC), or an associate in applied science (0-7 SHC) program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

### IV. Employability Competencies

Fundamental competencies that address soft skills vital to employability, personal, and professional success are listed below. Colleges are encouraged to integrate these competencies into the curriculum by embedding appropriate student learning outcomes into one or more courses or through alternative methods.

- A. Interpersonal Skills and Teamwork** – The ability to work effectively with others, especially to analyze situations, establish priorities, and apply resources for solving problems or accomplishing tasks.
- B. Communication** – The ability to effectively exchange ideas and information with others through oral, written, or visual means.
- C. Integrity and Professionalism** – Workplace behaviors that relate to ethical standards, honesty, fairness, respect, responsibility, self-control, criticism and demeanor.
- D. Problem-solving** – The ability to identify problems and potential causes while developing and implementing practical action plans for solutions.
- E. Initiative and Dependability** – Workplace behaviors that relate to seeking out new responsibilities, establishing and meeting goals, completing tasks, following directions, complying with rules, and consistent reliability.
- F. Information processing** – The ability to acquire, evaluate, organize, manage, and interpret information.
- G. Adaptability and Lifelong Learning** – The ability to learn and apply new knowledge and skills and adapt to changing technologies, methods, processes, work environments, organizational structures and management practices.
- H. Entrepreneurship** – The knowledge and skills necessary to create opportunities and develop as an employee or self-employed business owner.

\*An **Employability Skills Resource Toolkit** has been developed by NC-NET for the competencies listed above. Additional information is located at: <http://www.nc-net.info/employability.php>

\*\*The *North Carolina Career Clusters Guide* was developed by the North Carolina Department of Public Instruction and the North Carolina Community College system to link the academic and Career and Technical Education programs at the secondary and postsecondary levels to increase student achievement. Additional information about Career Clusters is located at: [http://www.nc-net.info/NC\\_career\\_clusters\\_guide.php](http://www.nc-net.info/NC_career_clusters_guide.php) or <http://www.careertech.org>.

Summary of Required Semester Hour Credits (SHC) for each credential:

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
<b>Total Semester Hours Credit (SHC)</b>	<b>64-76</b>	<b>36-48</b>	<b>12-18</b>