

# Career & College PROMISE



## CAREER & TECHNICAL EDUCATION

Rowan-  
Cabarrus  
COMMUNITY COLLEGE



[www.rccc.edu/ccp](http://www.rccc.edu/ccp)

COLLEGE CREDITS  
**TUITION FREE**  
FOR HIGH SCHOOL JUNIORS & SENIORS

# PATHWAYS

The pathways listed in this booklet lead towards a job credential, certificate, or diploma in a technical career. The Career and College Promise Career & Technical Education pathway certificates or diplomas align with a high school Career Cluster. The Career & Technical Education pathways provide students with the academic and technical skills, knowledge and training necessary to succeed in future careers and to become lifelong learners. If you enjoy hands on work that allows you to really see the results of your hard work, a career & technical pathway may be for you. These pathways are also great if you are looking for a credential that will lead you directly into the workforce, or give you skills to work while you continue your education.



## CAREER & TECHNICAL PATHWAY REQUIREMENTS

High school juniors and seniors may enroll if they have...

- 1 An unweighted GPA of 2.8 or higher  
*OR*
- 2 Demonstrate college readiness on one of the approved placement tests on the following page.  
*OR*
- 3 A recommendation from their high school principal or designee with justification.

# APPROVED PLACEMENT TESTS

PSAT 10 and PSAT/NMSQT 2015 and future		NC DAP (NCCCS Cut Score)	RISE/EDReady
<b>English</b>	26 or a composite score of 460 for Evidenced-Based Reading and Writing	<b>English/Reading</b> Composite score of 151 or higher	<b>English &amp; Reading</b> 75 or higher on Tier 1, 2 and 3
<b>Reading</b>	26 or a composite score of 460 for Evidenced-Based Reading and Writing		
<b>Mathematics</b> 24.5 or 510		<b>Mathematics</b> 7 on each a assessment for DMA 010 thru 060	<b>Mathematics</b> 75 or higher on Tier 1, 2 and 3

SAT (March 2016 and Future)		Pre ACT & ACT	
Evidence-Based Reading and Writing	480	English	18
		Reading	22
Mathematics	530	Mathematics	22

Other exemptions might be possible. Please check with your high school counselor to check on these exemptions.

# AIR CONDITIONING, HEATING & REFRIGERATION TECHNOLOGY BASIC CERTIFICATE

(C35100PB)

*Available at CBTC location.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
AHR 110	Intro to Refrigeration	5
ELC 111	Intro to Electricity	3
<b>Spring</b>		
AHR 112	Heating Technology	4
AHR 151	HVAC Duct Systems I	2
<b>Total Credit Hours Required for AHR Technology Basic Program</b>		<b>14</b>

# AIR CONDITIONING, HEATING & REFRIGERATION TECHNOLOGY INTERMEDIATE CERTIFICATE

(C35100PI)

*Available at CBTC location.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
AHR 110	Intro to Refrigeration	5
<b>Spring</b>		
AHR 113	Comfort Cooling	4
AHR 114	Heat Pump Technology	4
AHR 213	HVACR Building Code	2
AHR 160	Refrigerant Certification	1
<b>Total Credit Hours Required for AHR Technology Intermediate Program</b>		<b>16</b>

# AUTOMOTIVE LIGHT-DUTY DIESEL TECHNOLOGY CERTIFICATE

(C60430PB)

*Available at CBTC location. TRN offered at CBTC or North Campus.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
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## **Fall**

LDD-112	Intro Light-Duty Diesel	3
TRN-110	Introduction to Transport Technology	2

## **Spring**

TRN-120	Basic Transportation Electricity	5
LDD-181	LDD Fuel Systems	4

<b>Total Credit Hours Required for Automotive Light-Duty Diesel Technology Program</b>	<b>14</b>
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# AUTOMOTIVE SYSTEMS TECHNOLOGY CERTIFICATE

(C60160PB)

*Available at North Campus.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
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## **Fall**

TRN 110	Intro to Transport Tech	2
TRN 120	Basic Transp Electricity	5

## **Spring**

AUT 151	Brake Systems	3
AUT 151A	Brakes Systems Lab	1
WBL 110	World of Work	1

## **Fall**

AUT 141	Suspension & Steering Sys	3
AUT 141A	Suspension & Steering Lab	1

<b>Total Credit Hours Required for Automotive Systems Technology Program</b>	<b>16</b>
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# COMPUTER-INTEGRATED MACHINING CAM CERTIFICATE

(C50210PC)

*Available at North Campus. Recommended spring start.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Spring</b>		
MAC 122	CNC Turning	2
MAC 124	CNC Milling	2
MEC 110	Introduction to CAD/CAM	2
<b>Summer</b>		
MEC 231	Computer-Aided Manufacturing I	3
<b>Fall</b>		
MEC 232	Computer-Aided Manufacturing II	3
<b>Total Credit Hours Required for Computer-Integrated Machining CAM Program</b>		<b>12</b>



# COMPUTER-INTEGRATED MACHINING DIPLOMA\*

(D50210PB)

*Available at North Campus.*

*\* Student must meet GPA or testing requirement to take this pathway.*

<i>Course</i>	<i>Title</i>	<i>Credits</i>
<b>Fall</b>		
BPR 111	Print Reading	2
MAC 111	Machining Technology I	6
MAC 114	Intro to Metrology	2
MAC 151	Machining Calculations	2
<b>Spring</b>		
MAC 112	Machining Technology II	6
MAC 122	CNC Turning	2
MAC 124	CNC Milling	2
MEC 110	Introduction to CAD/CAM	2
<b>Summer</b>		
MAC 222	Advanced CNC Turning	2
MAC 224	Advanced CNC Milling	2
MEC 231	Computer-Aided Manufacturing I	3
<b>Fall</b>		
ENG 111	Writing and Inquiry	3
HUM 110	Technology and Society	3
MEC 232	Computer-Aided Manufacturing II	3
<b>Total Credit Hours Required for Computer-Integrated Machining Technology Program</b>		<b>40</b>

# CONSTRUCTION MANAGEMENT TECHNOLOGY CERTIFICATE

(C35190PB)

*Available at CBTC location.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
BPR 130	Print Reading-Construction	3
CMT 210	Construction Mngmt Fund	3
CMT 212	Total Safety Performance	3
<b>Spring</b>		
CST 241	Planning/Estimating I	3
<b>Summer</b>		
SST 140	Green Bldg & Design Concepts	3
CMT 120	Codes and Inspections	3
<b>Total Credit Hours Required for Construction Management Technology Program</b>		<b>18</b>

# COSMETOLOGY CERTIFICATE

(C55140PB)

*Available at College Station location.*

*Proof of identify documents must be submitted prior to registration.*

*\*Recommended fall start.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>First Year Fall</b>		
COS-111AB	Cosmetology Concepts I-Part A	2
COS-112AB	Salon I-Part A	4
<b>First Year Spring</b>		
COS-111BB	Cosmetology Concepts I-Part B	2
COS-112BB	Salon I-Part B	4
<b>First Year Summer</b>		
COS-115	Cosmetology Concepts III	4
COS-116	Salon III	4



<b>Second Year Fall</b>	
COS-113 Cosmetology Concepts II	4
COS-114 Salon II	8
<b>Second Year Spring</b>	
COS-117 Cosmetology Concepts IV	2
<b>Total Credit Hours Required for Cosmetology Program</b>	<b>34</b>

# CRIMINAL JUSTICE TECHNOLOGY CERTIFICATE

(C55180PB)

*Available at North and South Campus and online.*

<i>Course</i>	<i>Title</i>	<i>Credits</i>
<b>Fall</b>		
CJC 111	Intro to Criminal Justice	3
CJC 121	Law Enforcement Operations	3
<b>Spring</b>		
CJC 112	Criminology	3
CJC 113	Juvenile Justice	3
<b>Fall</b>		
CJC 131	Criminal Law	3
CJC 141	Corrections	3
<b>Total Credit Hours Required for Criminal Justice Technology Program</b>		<b>18</b>

# CRIMINAL JUSTICE TECHNOLOGY DIPLOMA\*

(D55180PB)

*Available at North and South Campus and online.*

*\* Student must meet GPA or testing requirement to take this pathway.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
CJC 111	Introduction to Criminal Justice	3
CJC 121	Law Enforcement Operations	3
<b>Spring</b>		
CJC 112	Criminology	3
CJC 113	Juvenile Justice	3
<b>Summer</b>		
COM 231	Public Speaking	3
*ENG 111	Writing and Inquiry	3
<b>Fall</b>		
CJC 131	Criminal Law	3
CJC 141	Corrections	3
<b>Spring</b>		
CJC 212	Ethics & Community Relations	3
CJC 231	Constitutional Law	3
WBL 110	World of Work	1
<b>Summer</b>		
CIS 110	Introduction to Computers	3
MAT 143	Quantitative Literacy	3
<b>Total Credit Hours Required for Criminal Justice Technology Program</b>		<b>36</b>

# EARLY CHILDHOOD EDUCATION CERTIFICATE

(C55220PB)

*Available at North and South Campus and online.*

<i>Course</i>	<i>Title</i>	<i>Credits</i>
<b>Fall</b>		
EDU 119	Intro to Early Child Ed	4
EDU 151	Creative Activities	3
<b>Spring</b>		
EDU 131	Child, Family, & Community	3
EDU 146	Child Guidance	3
WBL 110	World of Work	1
<b>Total Credit Hours Required for Early Childhood Education Program</b>		<b>14</b>

# ELECTRICAL SYSTEMS TECHNOLOGY CERTIFICATE

(C35130PB)

*Available at CBTC location.*

*\*Courses are recommended to be taken in sequence starting with ELC 112 & ELC 118*

<i>Course</i>	<i>Title</i>	<i>Credits</i>
<b>Fall</b>		
ELC 112	DC/AC Electricity	5
ELC 118	National Electrical Code	4
<b>Spring</b>		
ELC 113	Residential Wiring	4
ELC 125	Diagrams & Schematics	2
<b>Fall</b>		
CST 131	OSHA/Safety/Certification	3
<b>Total Credit Hours Required for Electrical Systems Technology Program</b>		<b>18</b>

# ELECTRICAL SYSTEMS TECHNOLOGY DIPLOMA\*

(D35130PB)

*Available at CBTC location.*

*\* Student must meet GPA or testing requirement to take this pathway.*

*\*Courses are recommended to be taken in sequence starting with ELC 112 & ELC 118*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
ELC 112	DC/AC Electricity	5
ELC 118	National Electrical Code	2
<b>Spring</b>		
ELC 117	Motors and Controls	4
ELC 125	Diagrams & Schematics	2
ELC 128	Introduction to PLC	3
<b>Summer</b>		
ELC 119	NEC Calculations	2
ENG 111	Writing and Inquiry	3
<b>Fall</b>		
ELC 113	Residential Wiring	4
ELC 115	Industrial Wiring	4
PSY 150	General Psychology	3
<b>Spring</b>		
ELC 126	Electrical Computations	3
EGR 125	Appl Software for Tech	2
<b>Total Credit Hours Required for Electrical Systems Technology Program</b>		<b>37</b>

# ELECTRONICS ENGINEERING TECHNOLOGY CERTIFICATE

(C40200PB)

*Available at North Campus, ATC and CBTC location.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
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## **Fall**

ELN 133	Digital Electronics	4
ELC 138	DC Circuit Analysis	4

## **Spring**

ELN 131	Analog Electronics I	4
ELC 139	AC Circuit Analysis	4

**Total Credit Hours Required for  
Electronics Engineering Technology Program      16**

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# ESTHETICS TECHNOLOGY CERTIFICATE

(C55230PB)

*Available at College Station location.*

*Proof of identify documents must be submitted prior to registration.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
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## **Fall**

COS 119	Esthetics Concepts I	2
COS 120	Esthetics Salon I	6

## **Spring**

COS 125	Esthetics Concepts II	2
COS 126	Esthetics Salon II	6

**Total Credit Hours Required for  
Esthetics Technology Program      16**

# FIREFIGHTER AND MEDICAL RESPONDER

*Available at North Campus Only.  
For Rowan County Public School and A.L. Brown students. Seniors only.*

## Certificates Earned

- North Carolina Department of Insurance Firefighter Certification and
- North Carolina Office of Emergency Medical Services Emergency Medical Responder Certification

Please contact your designated Career and College Promise Program advisor for application and enrollment details.

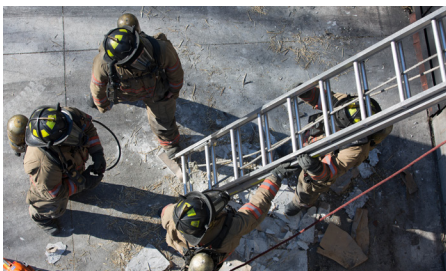
## FIRE PROTECTION TECHNOLOGY FOUNDATIONS CERTIFICATE

(C55240PI)

*Available Online*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
FIP-120	Introduction to Fire Protection	3
FIP-220	Fire Fighting Strategies	3
<b>Spring</b>		
FIP-124	Fire Prevention & Public Education	3
FIP-132	Building Construction	3

**Total Credit Hours Required for Fire Protection Technology Foundations Program 12**



# INFORMATION TECHNOLOGY CYBERSECURITY AND ETHICAL HACKING FOUNDATIONS CERTIFICATE

(C25590PH)

*Available Online, North Campus and CBTC*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
CCT-112	Ethics & High Technology	3
CTI-120	Network and Security Foundation	3
<b>Spring</b>		
CSC-111	Intro to Ethical Hacking	3
CTI-110	Web, Programming, and Database Foundation	3

**Total Credit Hours Required for Information  
Technology Cybersecurity and Ethical Hacking  
Foundations Program**

**12**

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# INFORMATION TECHNOLOGY ESSENTIALS CERTIFICATE

(C25590PE)

*Available at North Campus, CBTC location and online.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
CIS 110	Introduction to Computers	3
CTI 110	Web, Pgr, & DB Foundation	3
<b>Spring</b>		
CTI 120	Network & Sec Foundation	3
CTS 115	Info Sys Business Concepts	3

**Total Credit Hours Required for  
Information Technology Essentials Program**

**12**

# HEALTHCARE MANAGEMENT TECHNOLOGY BILLING & CODING ESSENTIALS CERTIFICATE

(C25200PE)

*Available at CBTC and Online*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
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## **Fall**

OST-141	Medical Office Terms I	3
OST-148	Medical Insurance & Billing	3

## **Spring**

OST-142	Medical Office Terms II	3
OST-149	Medical Legal Issues	3

**Total Credit Hours Required for Healthcare  
Management Technology Billing & Coding  
Essentials Program**

**12**

# MANICURING/NAIL TECHNOLOGY CERTIFICATE

(C55400PB)

*Available at College Station location.*

*Proof of identify documents must be submitted prior to registration.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
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## **Fall**

COS 121	Manicure/Nail Technology I	6
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## **Spring**

COS 222	Manicure/Nail Technology II	6
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**Total Credit Hours Required for  
Manicuring/Nail Technology Program**

**12**



# MECHANICAL DRAFTING TECHNOLOGY CERTIFICATE

(C50340PB)

*Available at North Campus and ATC.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
DFT 111	Technical Drafting I	2
<b>Spring</b>		
DFT 112	Technical Drafting II	2
DFT 154	Intro Solid Modeling	3
<b>Fall</b>		
DFT 151	CAD I	3
MEC 111	Machine Processes I	3
<b>Total Credit Hours Required for Mechanical Drafting Technology Program</b>		<b>13</b>

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# MECHATRONICS ENGINEERING TECHNOLOGY CERTIFICATE

(C40350PB)

*Available at North Campus and ATC.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
ISC 112	Industrial Safety	2
ELC 138	DC Circuit Analysis	4
<b>Spring</b>		
CIS 110	Introduction to Computers	3
ATR 112	Introduction to Automation	3
<b>Total Credit Hours Required for Mechatronics Engineering Technology Program</b>		<b>12</b>

# MOTORSPORTS MANAGEMENT TECHNOLOGY BASIC CERTIFICATE

(C60270PB)

*Available at CBTC and online.*

<i>Course</i>	<i>Title</i>	<i>Credits</i>
<b>Fall</b>		
MSM 110	Intro to Motorsports Mgmt	3
MSM 112	Engine/Drivetrain Fund	2
<b>Spring</b>		
MSM 214	Fabrication Fundamentals	2
MSM 216	Organization Mobility	2
MSM 218	Safety Environment	2
<b>Fall</b>		
MSM 210	Motorsports Marketing	3
MSM 212	Chassis/Handling Fundamentals	3
<b>Total Credit Hours Required for Motorsports Management Technology Basic Program</b>		<b>17</b>

# MOTORSPORTS MANAGEMENT TECHNOLOGY ADVANCED CERTIFICATE

(C60270PA)

*Available at CBTC and online.*

<i>Course</i>	<i>Title</i>	<i>Credits</i>
<b>Fall</b>		
MSM 110	Intro to Motorsports Mgmt	3
MSM 112	Engine/Drivetrain Fund	2
<b>Spring</b>		
MSM 214	Fabrication Fundamentals	2
MSM 216	Organization Mobility	2
MSM 218	Safety Environment	2
<b>Fall</b>		
MSM 212	Chassis/Handling Fundamentals	3
MSM 220	Advanced Chassis Analysis	2
<b>Total Credit Hours Required for Motorsports Management Technology Advanced Program</b>		<b>16</b>

# WELDING TECHNOLOGY CERTIFICATE

(C50420PB)

*Available at North Campus.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
WLD 110	Cutting Processes	2
WLD 121	GMAW (MIG) FCAW/Plate	4
<b>Spring</b>		
WLD 115	SMAW (Stick) Plate	5
WLD 131	GTAW (TIG) Plate	4
WLD 141	Symbols & Specifications	3
<b>Total Credit Hours Required for Welding Technology Program</b>		<b>18</b>

# WELDING TECHNOLOGY DIPLOMA\*

(D50420PB)

*Available at North Campus.*

*\* Student must meet GPA or testing requirement to take this pathway.*

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b>Fall</b>		
WLD 110	Cutting Processes	2
WLD 115	SMAW (Stick) Plate	5
WLD 131	GTAW (TIG) Plate	4
<b>Spring</b>		
WLD 116	SMAW (Stick) Plate/Pipe	4
WLD 132	GTAW (TIG) Plate/Pipe	3
WLD 141	Symbols & Specifications	3
<b>Summer</b>		
ENG 111	Writing and Inquiry	3
CIS 110	Introduction to Computers	3
<b>Fall</b>		
MAT 121	Algebra/Trigonometry I	3
DFT 151	CAD I	3
WLD 121	GMAW (MIG) FCAW/Plate	4
<b>Spring</b>		
WLD 123	FCAW Plate	4
<b>Total Credit Hours Required for Welding Technology Program</b>		<b>41</b>



# Career & College PROMISE

For more information,  
talk to your  
high school counselor  
or your career development  
coordinator.

## **North Campus**

1333 Jake Alexander Blvd., S  
Salisbury, N.C. 28146

## **South Campus**

1531 Trinity Church Rd.  
Concord, N.C. 28027

## **College Station**

489 N. Cannon Blvd.  
Kannapolis, N.C. 28081

## **Advanced Technology Center (ATC)**

525 John Snow Drive  
Kannapolis, N.C. 28081

## **North Carolina Research Campus**

399 Biotechnology Ln.  
Kannapolis, N.C. 28081

## **Cabarrus Business & Technology Center (CBTC)**

660 Concord Parkway, N.  
Concord, N.C. 28027



**[www.rccc.edu/ccp](http://www.rccc.edu/ccp)**  
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