Career & College PROMISE

CAREER & TECHNICAL EDUCATION

Rowan-Cabarrus COMMUNITY COLLEGE

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
English	**26** or a composite score of 460 for Evidenced-Based Reading and Writing	**English/ Reading**	Composite score of 151 or higher	**English & Reading** **75 or higher** on Tier 1, 2 and 3
Reading	**26** or a composite score of 460 for Evidenced-Based Reading and Writing			
Mathematics	**24.5** or 510	**Mathematics**	**7** on each a assessment for DMA 010 thru 060	**Mathematics** **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.

Course	*Title*	*Credits*
Fall		
AHR 110	Intro to Refrigeration	5
ELC 111	Intro to Electricity	3
Spring		
AHR 112	Heating Technology	4
CST I31	OSHA/Safety/Certification	3
Total Credit Hours Required for AHR Technology Basic Program		**15**

AUTOMOTIVE LIGHT-DUTY DIESEL TECHNOLOGY CERTIFICATE

(C60430PB)

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

Course	*Title*	*Credits*
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
Total Credit Hours Required for Automotive Light-Duty Diesel Technology Program		**14**

AUTOMOTIVE SYSTEMS TECHNOLOGY CERTIFICATE

(C60160PB)

Available at North Campus.

Course	*Title*	*Credits*
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
Total Credit Hours Required for Automotive Systems Technology Program		**16**

COMPUTER-INTEGRATED MACHINING CAM CERTIFICATE

(C50210PC)

Available at North Campus. Recommended spring start.

Course	*Title*	*Credits*
Spring		
MAC 122	CNC Turning	2
MAC 124	CNC Milling	2
MEC 110	Introduction to CAD/CAM	2
Summer		
MEC 231	Computer-Aided Manufacturing I	3
Fall		
MEC 232	Computer-Aided Manufacturing II	3
BPR 111	Print Reading	2
MAC 234	Advanced Multi Axis Machining	3
Total Credit Hours Required for Computer-Integrated Machining CAM Program		**17**

COMPUTER-INTEGRATED MACHINING DIPLOMA*

(D50210PB)

Available at North Campus.

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

Course	*Title*	*Credits*
Fall		
BPR 111	Print Reading	2
MAC 111	Machining Technology I	6
MAC 114	Intro to Metrology	2
MAC 151	Machining Calculations	2
Spring		
MAC 112	Machining Technology II	6
MAC 122	CNC Turning	2
MAC 124	CNC Milling	2
MEC 110	Introduction to CAD/CAM	2
Summer		
MEC 231	Computer-Aided Manufacturing I	3
Fall		
ENG 111	Writing and Inquiry	3
HUM 110	Technology and Society	3
MEC 232	Computer-Aided Manufacturing II	3
Total Credit Hours Required for Computer-Integrated Machining Technology Program		**36**

CONSTRUCTION MANAGEMENT TECHNOLOGY CERTIFICATE

(C35190PB)

Available at CBTC location.

Course	*Title*	*Credits*
Fall		
BPR 130	Print Reading-Construction	3
CMT 210	Construction Mngmt Fund	3
CST 131	OSHA/Safecty/Certification	3
Spring		
CMT 214	Planning & Scheduling	3
CMT 216	Costs & Productivity	3
CMT 218	Human Relations Issues	3
Total Credit Hours Required for Construction Management Technology Program		**18**

COSMETOLOGY CERTIFICATE

(C55140PB)

Available at College Station location.

Proof of identify documents must be submitted prior to registration.

**Recommended fall start.*

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

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

CRIMINAL JUSTICE TECHNOLOGY CERTIFICATE

(C55180PB)

Available at North and South Campus and online.

Course	*Title*	*Credits*
Fall		
CJC 111	Intro to Criminal Justice	3
CJC 121	Law Enforcement Operations	3
Spring		
CJC 112	Criminology	3
CJC 113	Juvenile Justice	3
Fall		
CJC 141	Corrections	3
Total Credit Hours Required for Criminal Justice Technology Program		**15**

CRIMINAL JUSTICE TECHNOLOGY DIPLOMA*

(D55180PB)

Available at North and South Campus and online.

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

Course	*Title*	*Credits*
Fall		
CJC 111	Introduction to Criminal Justice	3
CJC 121	Law Enforcement Operations	3
Spring		
CJC 112	Criminology	3
CJC 113	Juvenile Justice	3
Summer		
COM 231	Public Speaking	3
*ENG 111	Writing and Inquiry	3
Fall		
CJC 131	Criminal Law	3
CJC 141	Corrections	3
Spring		
CJC 212	Ethics & Community Relations	3
CJC 231	Constitutional Law	3
WBL 110	World of Work	1
Summer		
CIS 110	Introduction to Computers	3
MAT 143	Quantitative Literacy	3
Total Credit Hours Required for Criminal Justice Technology Program		**37**

EARLY CHILDHOOD EDUCATION CERTIFICATE

(C55220PB)

Available at North and South Campus and online.

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

ELECTRICAL SYSTEMS TECHNOLOGY CERTIFICATE

(C35130PB)

Available at CBTC location.

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

Course	*Title*	*Credits*
Fall		
ELC 112	DC/AC Electricity	5
ELC 118	National Electrical Code	2
Spring		
ELC 113	Residential Wiring	4
ELC 125	Diagrams & Schematics	2
Fall		
CST 131	OSHA/Safety/Certification	3
Total Credit Hours Required for Electrical Systems Technology Program		**16**

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*

Course	Title	Credits
Fall		
CST 131	OSHA/Safety/Certification	3
ELC 112	DC/AC Electricity	5
ELC 113	Residential Wiring	4
ELC 119	NEC Calculations	2
Spring		
EGR 125	Appl Software for Tech	2
ELC 115	Industrial Wiring	4
ELC 117	Motors and Controls	4
Summer		
COM 231	Public Speaking	3
ENG 111	Writing and Inquiry	3
Fall		
ELC 118	National Electrical Code	2
ELC 126	Electrical Computations	3
Spring		
ELC 125	Diagrams & Schematics	2
ELC 128	Introduction to PLC	3
Total Credit Hours Required for Electrical Systems Technology Program		**40**

ELECTRONICS ENGINEERING TECHNOLOGY CERTIFICATE

(C40200PB)

Available at North Campus, ATC and CBTC location.

Course	*Title*	*Credits*
Fall		
ELN 133	Digital Electronics	4
ELC 131	Circuit Analysis I	4
ELC 131A	Circuit Analysis I Lab	1
Spring		
ELN 131	Analog Electronics I	4
Total Credit Hours Required for Electronics Engineering Technology Program		**13**

ESTHETICS TECHNOLOGY CERTIFICATE

(C55230PB)

Available at College Station location.

Proof of identify documents must be submitted prior to registration.

Course	*Title*	*Credits*
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

Course	*Title*	*Credits*
Fall		
FIP-120	Introduction to Fire Protection	3
FIP-220	Fire Fighting Strategies	3
Spring		
FIP-124	Fire Prvention & 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

Course	*Title*	*Credits*
Fall		
CCT-112	Ethics & High Technology	3
CTI-120	Network and Security Foundation	3
Spring		
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**

INFORMATION TECHNOLOGY ESSENTIALS CERTIFICATE

(C25590PE)

Available at North Campus, CBTC location and online.

Course	*Title*	*Credits*
Fall		
CIS 110	Introduction to Computers	3
CTI 110	Web, Pgr, & DB Foundation	3
Spring		
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

Course	*Title*	*Credits*
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.

Course	*Title*	*Credits*
Fall		
COS 121	Manicure/Nail Technology I	6
Spring		
COS 222	Manicure/Nail Technology II	6
Total Credit Hours Required for Manicuring/Nail Technology Program		**12**

MECHANICAL DRAFTING TECHNOLOGY CERTIFICATE

(C50340PB)

Available at North Campus and ATC.

Course	*Title*	*Credits*
Fall		
DFT 111	Technical Drafting I	2
Spring		
DFT 112	Technical Drafting II	2
DFT 154	Intro Solid Modeing	3
Fall		
DFT 151	CAD I	3
MEC 111	Machine Processes I	3
Total Credit Hours Required for Mechanical Drafting Technology Program		**13**

MECHATRONICS ENGINEERING TECHNOLOGY CERTIFICATE

(C40350PB)

Available at North Campus and ATC.

Course	*Title*	*Credits*
Fall		
ISC 112	Industrial Safety	2
ELC 131	Circuit Analysis I	4
ELC 131A	Circuit Analysis I Lab	4
HYD 110	Hydraulics/Pneumatics I	3
Spring		
ATR 112	Introduction to Automation	3
Total Credit Hours Required for Mechatronics Engineering Technology Program		**13**

MOTORSPORTS MANAGEMENT TECHNOLOGY BASIC CERTIFICATE

(C60270PB)

Available at CBTC and online.

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

WELDING TECHNOLOGY CERTIFICATE

(C50420PB)

Available at North Campus.

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

WELDING TECHNOLOGY DIPLOMA*

(D50420PB)

Available at North Campus.

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

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

Rowan-Cabarrus
COMMUNITY COLLEGE

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
ccp@rccc.edu