

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.

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

AIR CONDITIONING, HEATING & REFRIGERATION TECHNOLOGY INTERMEDIATE CERTIFICATE

(C35100PI)

Available at CBTC location.

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

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> |
|---------------|--------------------------------------|----------------|
| 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.

| <u>Course</u> | <u>Title</u> | <u>Credits</u> |
|---------------|--------------------------|----------------|
| 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.

| <u>Course</u> | <u>Title</u> | <u>Credits</u> |
|--|---------------------------------|----------------|
| 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 |
| Total Credit Hours Required for Computer-Integrated Machining CAM Program | | 12 |



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> |
|---|---------------------------------|----------------|
| 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 | | |
| MAC 222 | Advanced CNC Turning | 2 |
| MAC 224 | Advanced CNC Milling | 2 |
| 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 | | 40 |

CONSTRUCTION MANAGEMENT TECHNOLOGY CERTIFICATE

(C35190PB)

Available at CBTC location.

| <i>Course</i> | <i>Title</i> | <i>Credits</i> |
|---|------------------------------|----------------|
| Fall | | |
| BPR 130 | Print Reading-Construction | 3 |
| CMT 210 | Construction Mngmt Fund | 3 |
| CMT 212 | Total Safety Performance | 3 |
| Spring | | |
| CST 241 | Planning/Estimating I | 3 |
| Summer | | |
| SST 140 | Green Bldg & Design Concepts | 3 |
| CMT 120 | Codes and Inspections | 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.*

| <i>Course</i> | <i>Title</i> | <i>Credits</i> |
|--------------------------|-------------------------------|----------------|
| 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.

| <i>Course</i> | <i>Title</i> | <i>Credits</i> |
|--|----------------------------|----------------|
| 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 131 | Criminal Law | 3 |
| CJC 141 | Corrections | 3 |
| Total Credit Hours Required for Criminal Justice Technology Program | | 18 |

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> |
|--|----------------------------------|----------------|
| 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 | | 36 |

EARLY CHILDHOOD EDUCATION CERTIFICATE

(C55220PB)

Available at North and South Campus and online.

| <i>Course</i> | <i>Title</i> | <i>Credits</i> |
|--|----------------------------|----------------|
| 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*

| <i>Course</i> | <i>Title</i> | <i>Credits</i> |
|--|---------------------------|----------------|
| Fall | | |
| ELC 112 | DC/AC Electricity | 5 |
| ELC 118 | National Electrical Code | 4 |
| 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 | | 18 |

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

ELECTRONICS ENGINEERING TECHNOLOGY CERTIFICATE

(C40200PB)

Available at North Campus, ATC and CBTC location.

| <u>Course</u> | <u>Title</u> | <u>Credits</u> |
|---------------|--------------|----------------|
|---------------|--------------|----------------|

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**

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> |
|---------------|--------------|----------------|
|---------------|--------------|----------------|

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.

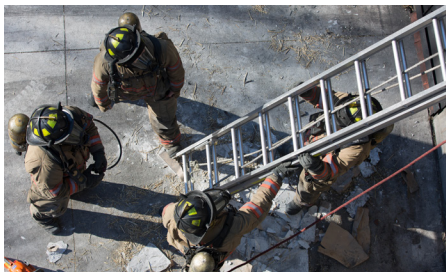
FIRE PROTECTION TECHNOLOGY FOUNDATIONS CERTIFICATE

(C55240PI)

Available Online

| <i>Course</i> | <i>Title</i> | <i>Credits</i> |
|---------------|------------------------------------|----------------|
| Fall | | |
| FIP-120 | Introduction to Fire Protection | 3 |
| FIP-220 | Fire Fighting Strategies | 3 |
| Spring | | |
| 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> |
|---------------|---|----------------|
| 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.

| <u>Course</u> | <u>Title</u> | <u>Credits</u> |
|---------------|----------------------------|----------------|
| 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

| <u>Course</u> | <u>Title</u> | <u>Credits</u> |
|---|-----------------------------|----------------|
| 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> |
|---|-----------------------------|----------------|
| 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.

| <u>Course</u> | <u>Title</u> | <u>Credits</u> |
|---|-----------------------|----------------|
| Fall | | |
| DFT 111 | Technical Drafting I | 2 |
| Spring | | |
| DFT 112 | Technical Drafting II | 2 |
| DFT 154 | Intro Solid Modeling | 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.

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

MOTORSPORTS MANAGEMENT TECHNOLOGY BASIC CERTIFICATE

(C60270PB)

Available at CBTC and online.

| <i>Course</i> | <i>Title</i> | <i>Credits</i> |
|--|-------------------------------|----------------|
| 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 |

MOTORSPORTS MANAGEMENT TECHNOLOGY ADVANCED CERTIFICATE

(C60270PA)

Available at CBTC and online.

| <i>Course</i> | <i>Title</i> | <i>Credits</i> |
|---|-------------------------------|----------------|
| 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 212 | Chassis/Handling Fundamentals | 3 |
| MSM 220 | Advanced Chassis Analysis | 2 |
| Total Credit Hours Required for Motorsports Management Technology Advanced Program | | 16 |

WELDING TECHNOLOGY CERTIFICATE

(C50420PB)

Available at North Campus.

| <u>Course</u> | <u>Title</u> | <u>Credits</u> |
|---------------|--------------|----------------|
|---------------|--------------|----------------|

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.*

| <u>Course</u> | <u>Title</u> | <u>Credits</u> |
|---------------|--------------|----------------|
|---------------|--------------|----------------|

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 |
|---------|------------------------|---|

| | | |
|---------|-------|---|
| DFT 151 | CAD I | 3 |
|---------|-------|---|

| | | |
|---------|-----------------------|---|
| WLD 121 | GMAW (MIG) FCAW/Plate | 4 |
|---------|-----------------------|---|

Spring

| | | |
|---------|---------------------------|---|
| WLD 265 | Automated Welding/Cutting | 4 |
|---------|---------------------------|---|

Total Credit Hours Required for Welding

Technology Program

41

19



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



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