



CCBC

STEM ACADEMY

Engineering Your Future

CURRICULUM: 28 CREDITS

CCBC: CENTER CAMPUS

REQUIREMENTS

1. Minimum GPA of 2.5
2. High school junior

FIRST SEMESTER: 7 CREDITS

CODE	CLASS	CREDITS
PTEC150	PTECH: Industry Overview AND	1
PTEC151	PTECH: Fundamentals AND	1
PTEC152	PTECH: Equipment	1
WRIT101	English Composition	3
COLL100	Titan Transition	1

SECOND SEMESTER: 7 CREDITS

PTEC170	PTECH Equipment: Technology &	1
PTEC171	PTECH Equipment: Equipment I &	1
PTEC172	PTECH Equipment: Equipment II &	1
PTEC173	PTECH Equipment: Unit Operation	1
COMM201	Public Speaking	3

THIRD SEMESTER: 7 CREDITS

PTEC180	Instrumentation I: Overview and Process Variables	1
PTEC181	Instrumentation I: Control Loops and P&ID's	1
PTEC182	Instrumentation I: Controllers and Troubleshooting	1
PTEC183	Instrumentation I: Digital Programmable and Distributed Control Systems	1
PSYC101	General Psychology	3

FOURTH SEMESTER: 7 CREDITS

PTEC260	Instrumentation II: Signals, Switches, Transmission	1
PTEC261	Instrumentation II: Controllers, Control Schemes	1
PTEC262	Instrumentation II: Advanced Control, PLC, DCS	1
PTEC263	Instrumentation II: Power, Emergency, Interlocks, Malfunctions	1
LITR210	Concepts of Literature	3

Do you like to problem solve? Are you interested in high paying STEM careers?

Enroll in CCBC's STEM Academy to engineer your future.

You'll gain hands-on experience in our classrooms and labs while connecting with our industry partners in new and emerging career fields. As a CCBC STEM Academy student, you will also have the opportunity to earn up to 28 college credits while still attending high school.

BENEFITS

- Learning from experienced faculty and studying our industry-designed and approved curriculum
- Continuing your studies toward an associate degree in a STEM pathway
- Getting job-ready for high-demand, well-paying jobs coming to Beaver County and the surrounding regions

REQUIREMENTS

- Good attendance
- Good conduct
- High school junior or senior
- Recommendation from principal or guidance counselor
- Specific program and pathway requirements listed to the right, as well as under each pathways curriculum

HOW TO ENROLL

- Contact your school's guidance office for enrollment information
- Fill out the FAFSA to determine eligibility for funding and/or scholarships
- Get your enrollment approved by your parent or legal guardian and the high school principal or designee
- Submit Academy application and High School transcript to the High School Academy office

TO LEARN MORE ABOUT THE STEM ACADEMY

- STEM Academy Champion
 - 724-480-3539
 - stemchampion@ccbc.edu