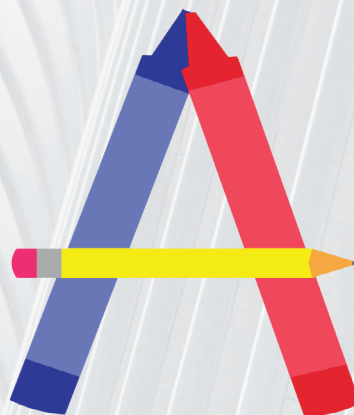


BERKS COUNTY
TECHNICAL
A C A D E M Y



TEACHER
Academy

CHOOSE YOUR PATH



**START EARNING AN
ASSOCIATE DEGREE WHILE
STILL IN HIGH SCHOOL**



**START WORKING IN
A HIGH DEMAND JOB**



**MOVE ON TO EARN YOUR
BACHELOR'S DEGREE**

A COLLABORATION BETWEEN
BERKS CAREER & TECHNOLOGY CENTER
READING AREA COMMUNITY COLLEGE
READING MUHLENBERG CAREER & TECHNOLOGY CENTER



HOW THE TECHNICAL ACADEMY WORKS:

start earning an **ASSOCIATE DEGREE** while still in high school!

- The Technical Academy and Teacher Academy enrollment period occurs at the beginning of the high school year. A RACC representative will assist students at the Career & Technology Center (CTC) with applying to RACC and registering for the courses to be completed by the student within the academic year.
- Students need to meet with their CTC counselor about specific financial responsibility for Academy courses, including financial hardship.
- The college credits earned while at the CTC in the student's sophomore and junior year will be **tuition free** if the student immediately attends RACC to complete their associate degree.
- Tuition and textbooks for the senior year courses taken at RACC's campus or online while students are still in high school may be subsidized by alternative funding sources and is dependent on benefactor, state, and federal funding.
- After students complete their associate degree, they can transfer to a bachelor's degree program. Students have transferred RACC credit to more than 780 institutions.
- Once students graduate from high school, the costs associated with the remaining courses will be the responsibility of the student. Students may apply for financial aid in the same fashion as any other RACC student.

The estimated cost of one-year tuition at RACC as compared to other schools in Berks County.

Reading Area Community College

\$5,820

Berks County PASSHE University

\$11,000

Berks County State-related University

\$15,000

Berks County Private Colleges

\$40,000

TO LEARN MORE ABOUT WHAT OUR TECHNICAL ACADEMY PROGRAMS PROVIDE:

BCTC Students:
Contact Student Services
610-374-4073 / www.berkscareer.com
RMCTC Students:
Contact Student Services
610-921-7310 / www.rmctc.org

racc.edu



**BERKS COUNTY
TECHNICAL
ACADEMY**

The Technical Academy provides college-bound students with the opportunity to develop advanced technical skills and earn college credit toward an associate and/or bachelor's degree while still in high school.

**student
entrance
requirements**

- Students must be in grades 10 or 11.
- 3.0 overall GPA
(With special permission a student may be accepted on a provisional basis with a 2.5 GPA or higher.)
- Math Proficiency
- Reading Proficiency
- To remain in the Academy, students must complete a college prep academic sequence throughout high school.
- A signed Letter of Understanding to attend RACC to earn an associate degree must be on file.
- Students transitioning to RACC after graduation and completion of the Technical Academy courses will be required to complete RACC's placement assessment. SAT, ACT, and AP scores may be evaluated to determine the need to take RACC's placement assessment.

**EARN
COLLEGE CREDITS**

Start your Associate in Applied Science (AAS) degree at RMCTC or BCTC and complete it at RACC. Secure employment, use your industry certification, or transfer to a bachelor's degree program.

ASSOCIATE OF APPLIED SCIENCE

**business
management**

BCTC's Business Management & Entrepreneurship

College Courses Offered at BCTC / RMCTC

COURSE#	COURSE NAME	CREDITS
BUS-100	Introduction to Business	3
IFT-110	Microcomputer Apps	3
BUS-110	Business Math	3
ACC-105	Financial Accounting	3
MGT-100	Principles of Management	3
BUS-220	Principles of Marketing	3

High School Senior Year Capstone Courses at RACC

ACC-110	Managerial Accounting	3
CSS-103	College Success Strategies	3
MGT-215	Human Relations in Business	3

Program Courses to Complete Associate Degree (after graduation)

MGT-230	Small Business Management	3
BUS-200	Macroeconomics OR	
BUS-201	Microeconomics	3
MGT-200	Human Resource Management	3
BUS-230	Business Law	3
MGT-210	Supervisory Management	3
BUS-240	International Business or	
ACC-210	Financial Management	3
ENV-130	The Environment	3

Required General Education Courses

COM-121	English Composition I	3
BUS-106	Business Communications	3
Select 1 Course from each subject area: Humanities, Sciences, and Social Sciences		9

Students are prepared for employment as office managers, assistant managers, sales representatives, entrepreneurs, supervisors, human resource employees, benefits coordinators, market researchers, and management trainees in programs such as those operated by banks, retail establishments, and other business and industrial enterprises. Students earn up to 27 credits while in high school.

== JOBS

Marketing Specialist	\$34,230	\$55,770	\$66,540
Human Resource Specialist	\$39,080	\$64,790	\$77,650
Accountants & Auditors	\$49,640	\$69,250	\$79,050

TECHNICAL ACADEMY CAREER PATHWAYS



BCTC's Computer Systems Networking & Security

College Courses Offered at BCTC / RMCTC

COURSE#	COURSE NAME	CREDITS
IFT-100	Introduction to Information Technology	3
NET-100	Computer Networking	3
NET-106	Installation & Maintenance of PCs I	3
NET-120	Server Administration	3
NET-206	Installation of PCs II	3
NET-250	Network Security	3

High School Senior Year Capstone at RACC

MGT-215	Human Relations in Business	3
CSS-103	College Success Strategies	3
IFT-110	Microcomputer Apps	3

Program Courses to Complete Associate Degree (after graduation)

BUS 100	Introduction to Business	3
IFT-210	Help Desk Computer Support	3
PRG-260	Database Systems	3
WEB-100	Web Design I (HTML)	3
PRG-100	Introduction to Programming	3
ENV-130	The Environment	3

Required General Education Courses

COM-121	English Composition I	3
BUS-106	Business Communications	3
MAT-150	Foundations of Math	3

Select 1 Course from each subject area:
Humanities, Sciences, and Social Sciences 9

Students are prepared for supporting others in the use of computer hardware, software, networks and websites. Coursework will prepare students for various industry-standard certification exams. Students in the Computer Technology Academy will need to meet with a CTC counselor to select courses for their individual career pathway. Students earn up to 27 credits taken while in high school.

Computer User Support Specialist	\$35,760	\$48,300	\$54,570
Computer Network Support Spec.	\$48,140	\$67,030	\$76,480
Network & Computer Systems Administrator	\$47,330	\$71,040	\$107,930

= JOBS

BCTC's IT-Programming

College Courses Offered at BCTC

COURSE#	COURSE NAME	CREDITS
IFT-100	Introduction to Information Systems	3
PRG-100	Introduction to Computer Programming	3
WEB-100	Web Design I	3
PRG-260	Database Systems	3
IFT-110	Microcomputer Applications	3
IFT-120	Advanced Microcomputer Applications	3

High School Senior Year Capstone at RACC

CSS-103	College Success Strategies	3
MGT-215	Human Relationships in Business	3
BUS-100	Introduction to Business	3

Program Courses to Complete Associate Degree (after graduation)

IFT-210	Help Desk Customer Support	3
NET-100	Computer Networking	3
NET-106	Installation & Maintenance of PCs I	3
NET-250	Network Security	3
NET-206	Installation & Maintenance of PCs II	3
NET-120	Server Administration	3
ENV-130	The Environment	3

Required General Education Courses

COM121	English Composition I	3
BUS-106	Business Communications	3
MAT-150	Foundations of Math	3

Select 1 Course from each subject area:
Humanities, Sciences, and Social Sciences 9

Students are prepared for supporting others in the use of computer hardware, software, networks and websites. Coursework will prepare students for various industry-standard certification exams. Students in the Computer Technology Academy will need to meet with a CTC counselor to select courses for their individual career pathway. Students earn up to 27 credits taken while in high school.

Computer Programmer	\$50,750	\$90,980	\$150,520
Computer Systems Analysts	\$56,990	\$88,640	\$104,470
Web Developer	\$33,800	\$63,620	\$103,600

= JOBS

web site development

RMCTC's IT Web Design

College Courses Offered at BCTC / RMCTC

COURSE#	COURSE NAME	CREDITS
IFT-100	Introduction to Information Technology	3
IFT-110	Microcomputer Apps	3
WEB-100	Web Design I (HTML)	3
PRG-100	Introduction to Programming	3
BUS-100	Introduction to Business	3

High School Senior Capstone at RACC

WEB-115	Web Design II – Web Authoring Software	3
CSS-103	College Success Strategies	3
MGT-215	Human Relations in Business	3

Program Courses to Complete Associate Degree (after graduation)

BUS 105	Business English	3
WEB-230	Web Databases	3
WEB-225	Multimedia for the Web	3
WEB-240	Responsive Design	3
BUS-220	Principles of Marketing	3
WEB-200	E-Commerce	3
NET-100	Computer Networking	3
WEB-215	Web Design Graphics	3
PRG-160	JavaScript	3
ENV-130	The Environment	3

Required General Education Courses

COM-121	English Composition I	3
BUS-106	Business Communications	3
MAT-150	Foundations of Math	3
Select 1 Course from each subject area: Humanities, Sciences, and Social Sciences		9

Students are prepared for careers in website design, creation and implementation. They will also be able to maintain a web server. Students earn up to 24 credits while in high school.

= JOBS

Web Designers	\$36,000	\$51,424	\$75,000
Web Developer	\$33,800	\$63,620	\$103,600
Search Marketing Strategist	\$35,430	\$55,420	\$91,440
Web Administrator	\$41,050	\$78,350	\$128,080

mechatronics engineering technology

BCTC's Mechatronics Engineering Technology RMCTC's Engineering and Automation Technology

College Courses Offered at BCTC / RMCTC

COURSE#	COURSE NAME	CREDITS
MET-101	Fundamentals of Shop Machinery	3
MET-120	Industrial Mechanics I	5
MET-130	Industrial Electrical Systems	4
MET-140A	Intro to Programmable Logic Controllers I	2

High School Senior Capstone Courses at the Schmidt Training and Technology Center

MET-140B	Intro to Programmable logic Controllers II	2
MET-150	Industrial Mechanics II	6
MET-160	Rotating Electrical Machines	3

Program Courses to Complete Associate Degree (after graduation)

MET-200	Robotics and Motion Control	4
MET-210	Process Control & Instrumentation	3
MET-220	Advanced PLCs (AB ControlLogix 5500 or Siemens S7)	4
MET-240	Mechatronics Application Project	3
MET-111	Fundamentals of Manufacturing	1

Required General Education Courses

CSS-103	College Success Strategies	3
COM-121	English Composition I	3
COM-141	Technical Writing	3
IFT-110	Microcomputer Apps	3
MAT-160	College Algebra	3
HUM Elective	ART-111 or 201, COM-110, ENG-125, PHI-271 or PHI-275	3
PHY-240	Physics I	4
STEM Elective	BIO-150, CHE-150, or PHY-245	3
SOC-130	Sociology	3

Students are prepared for careers as engineering technicians in diversified manufacturing. Emphasis is placed on predictive maintenance, troubleshooting and quality assurance. Capstone year students will be advised by the RACC Career Coach into the Schmidt Training and Technology lab courses. Students can earn up to 25 credits.

= JOBS

Electrical and Electronics Eng. Technologists & Technicians	\$22,970	\$47,680	\$60,040
Electro-Mechanical Techs	\$37,350	\$59,800	\$95,340
Industrial Engineering Technologists & Technicians	\$41,560	\$51,750	\$56,840

ASSOCIATE OF SCIENCE IN Engineering



AS Engineering Pathway

College Courses Offered at BCTC / RMCTC

COURSE#	COURSE NAME	CREDITS
MET-101	Fundamentals of Shop Machinery	3
MET-120	Industrial Mechanics I	5
MET-130	Industrial Electrical Systems	4
MET-140A	Intro to Programmable Logic Controllers I	2
MET-140B	Introduction to PLCs II*	2
EGR-104	Introduction to Engineering Design*	3
EGR-110	Programming for Engineers (with MATLAB)*	3
CSS-103	College Success Strategies*	3

*Students may take these courses at RACC in the 12th grade

Program Courses to Complete Associate Degree (after graduation)

MAT 282	Ordinary and Partial Differential Equations	4
MAT 222	Calculus III	4
PHY 255	College Physics II	4

Required General Education Courses

MAT 220	Calculus I	4
CHE 150	Chemistry I	4
COM 121	English Composition I	3
MAT 221	Calculus II	4
PHY 250	College Physics I	4
COM 141	Technical Writing	3
COM 151	Fundamentals of Speech	3
COM 141	Technical Writing	3
COM 151	Fundamentals of Speech	3
PHI 275	Introduction to Ethics	3
BUS 200 / BUS 201	Microeconomics / Macroeconomics	3

Electives

BIO 150	Biology I	4
BIO 155	Biology II	4
CHE 155	Chemistry II	4
CHE 250	Organic Chemistry	4
EGR 102	Shop Machinery and Engineering Graphics	3

Reading Area Community College's Engineering program prepares students to transfer to a four-year institution and earn a Bachelor of Science in Engineering in a variety of disciplines.

Engineers design and build everything from microchips and batteries to machinery, medical equipment, roads, bridges and tunnels, skyscrapers, airports, oil refineries and water and waste systems. All of these involve solving problems and thinking logically to bring complex systems together.

In our engineering program, students will learn how to collect, analyze and interpret data, and then apply scientific and mathematical principles to formulate solutions to challenging design problems.

Students graduating from high school will be encouraged by CTC and RACC counselors, advisors and faculty to continue their engineering associate degree program at RACC. On completing the associate degree, students will be able to continue their education by transferring to a four-year bachelor's degree-granting university or enter the workforce.

Graduates of the AS in Engineering are able to transfer to the BS in Engineering in Electrical-Mechanical Engineering or Mechanical Engineering at Pennsylvania State University - Berks Campus. MET 101 is not included in PSU-Berks program; however, it is included in other RACC partnership programs. Students also have opportunities at a number of Berks County high schools to complete Calculus I (MAT 220 through dual enrollment), and Calculus II (MAT 221).

Here are some examples of occupations related to this program. Some careers may require additional education or training.

	Est. Median Salary
Chemical Engineer	\$106,000
Civil Engineer	\$75,000
Computer Systems Engineer	\$90,000
Electrical Engineer	\$97,000
Mechanical Engineer	\$68,000

Source: CareerExplorer

= JOBS

associate of science
in engineering



ENGINEERING



ASSOCIATE
DEGREE

ELECTRICAL-MECHANICAL
ENGINEERING OR
MECHANICAL ENGINEERING



BACHELOR'S
DEGREE

ASSOCIATE OF APPLIED SCIENCE IN Early Childhood Education



The Teacher Academy is a college-credit career pathway where students will be able to begin their Associate of Applied Science in Early Childhood Education (ECE) while still in high school. Some of the classes are taught at the Berks Career and Technology Center, others will be offered as Dual Enrollment or Early College. Students may be able to complete their AAS in Early Childhood Teaching in about a year after graduating from high school before seamlessly transitioning to

Kutztown University's BSED (PreK-4 Certification) program offered right at RACC's campus.

RACC's Early Childhood Teaching (PreK-Grade 4) program is designed to prepare graduates for immediate employment in the ECE field as well as provide the first 61 credits of the bachelor's degree leading to PreK-Grade 4 Teacher certification. Graduates of this program may seek employment opportunities with Head Start and early childhood programs serving infants, toddlers, pre-schoolers, and school-aged children. In addition, graduates may also seek employment as educational assistants or paraeducators in public and private schools.

AAS Early Childhood Education Pathway

Courses offered while attending CTC			
COURSE#	COURSE NAME		CREDITS
ECE105	EC Professional (at CTC)		3
ECE140	Health, Safety & PE (at CTC)		3
ECE115	Integrated Arts (at CTC)		3
ECE125	Intro to ECE*		3
ECE120	Observation & Assessment*		3
MAT150	Foundations of Math*		3
ENG125	Intro to Literature*		3
IFT110	Micro Comp Apps*		3
CSS103	College Success Strategies*		3

*offered as Early College

Courses to complete post high school RACC AS Early Childhood Teaching (PreK-4)			
	COURSE#	COURSE NAME	CREDITS
SUMMER	SPE100	Intro to Special Education	3
	MAT155	Foundations of Math II • Take DEV classes if needed/Boot Camp • Take PAPA or Praxis for math	3
FALL	COM121	English Comp I	3
	ECE220	Curric Dev & Inst Materials	3
	ECE222	Emerging Literacy	3
	ECE180	Math Found for Toddlers through Grade 1	3
	PSY130	General Psychology	3
SPRING	ECE260	ECE Practicum	3
	COM151	Found of Speech (online)	3
	ECE261	Family & School Relations	3
	PSY210	Child Psychology	3
	BIO120	Biological Concepts	4
	Credits while at RACC		37

= JOBS

Kutztown University Courses		
First Year Fall/Winter/Spring		
COURSE#	COURSE NAME	
EEU300	Early Literacy Dev	
EEU325	Assessment II	
ELU353	Language Dev, Reading Assess & Intervention	
EEU305	Teaching Science Early Childhood	
SPU314	Effective Instructional Strategies	
SPU316	Literacy Dev Core & Intervention	
EEU220	Children's Literature for Pre-K-4	
EEU211	Family Collaboration & Diversity	
ELU325	Differentiated Instruction	
First Year Summer Courses		
Two RACC Electives		
Second Year Fall/Winter/Spring		
EEU301	Pro-Sem Teaching Literacy in Grades 2-4	
EEU303	Pro-Sem Lang, Dev & Teaching Lang Arts in Pre-K-4	
EEU304	Pro-Sem Teaching Social Studies in Pre-K-4	
EEU306	Pro-Sem Integrating Principles of Learning in Pre-K-4	
EEU309	Pro-Sem Teaching Math in Grades 2-4	
EEU390	Clinical Experience I	
EEU391	Clinical Experience II	

Job Title	Median Salary
Pre-school/Childcare Group Supervisor/Teacher (Qualified at AAS Degree)	\$31,930
Elementary Teacher (Qualified at BS Degree with State Certification)	\$59,400
Para Educator/ Assistant Teacher/ Teacher Aid in K-12 public schools	\$28,900
Child Care Program Director/Administrator	\$49,160

Obtained from: US Bureau of Labor Statistics Occupational Handbook

DUAL ADMISSIONS AND TRANSFER AGREEMENTS

After completing an associate degree, students can transfer to a college or university to attain a bachelor's degree. Benefits of transfer agreements include advising guides to help students take courses that count toward their bachelor's degree program and generous transfer scholarships. RACC's transfer service office has many resources to help students successfully navigate the transfer process.



TOP 10 TRANSFER SCHOOLS

Albright College • Alvernia University
 Bloomsburg University • Kutztown University
 Millersville University
 Penn State University • University of Pittsburgh
 Reading Hospital School of Health Science • Temple University
 West Chester University

- RACC's 26 transfer partnerships allow our students to earn a bachelor's degree at a fraction of the total cost of a 4-year degree program.
- The Technical and Teacher Academy programs are for students who are interested in earning a college degree without extensive debt, a technical school certificate, and in some programs, industry certification.

Students have transferred RACC credit to more than **780+** INSTITUTIONS



Berks Career and Technology Center will not discriminate in its employment practices or its educational programs and activities on the basis of race, color, age, creed, religion, gender, sex, sexual orientation, ancestry, domicile, veterans status, national origin, marital status, pregnancy, handicap/disability or genetic information or any other legally protected characteristics in its admission procedures, educational programs and activities or employment practices, as required by the Pennsylvania School Code and related regulations, ADA, Title VI, Title IX, and Section 504 and will provide equal access to the Scouts of America and other designated youth groups. Students are encouraged to consider enrolling in career programs non-traditional to their gender. Berks Career and Technology Center will take steps to assure that the lack of English language skills will not be a barrier to admission and participation in career and technical education programs and will make reasonable accommodations for those with disabilities. Furthermore, harassment in any form, including bullying, by any individual will not be tolerated. All policies, regulations and practices of BCTC shall be guided by this statement. Inquiries regarding compliance with Title IX, Section 504 or Title VI should be directed to Dr. Michael Stauffer at the Office of the Executive Director at 1057 County Road, Leesport, PA 19533, 610-374-4073.

Berks Career and Technology Center no discriminará por razones de raza, color, edad, religión, sexo, orientación sexual, origen, domicilio, si es veterano, nacionalidad, estado civil, embarazo, incapacidad o cualquier otra característica protegida legalmente en su proceso de empleo, programas educativos ni actividades o proceso de admisiones como es requerido por el Código Escolar del Estado de Pennsylvania y las regulaciones ADA, Título VI, Título IX y Sección 504 y proporcionará un acceso igualitario a los Exploradores de America y otros grupos de jóvenes designados. Fomentamos que todo estudiante considere registrarse en programas educativos no tradicionales a su sexo. Berks Career and Technology Center tomara pasos para asegurar que la falta de conocimiento de Ingles no sea una barrera para su admisión y participación en los programas educativos y técnicos. También se harán acomodaciones razonables para personas con impedimentos físicos. Cualquier forma de acoso, incluyendo intimidación por parte de cualquier individuo no será permitida. La política, regulaciones y prácticas de BCTC serán guiadas por esta declaración. Dudas o preguntas acerca del cumplimiento del Título IX, Sección 504 o Título VI deberán dirigirse a la oficina del Director Ejecutivo, Dr. Michael Stauffer, en 1057 County Rd, Leesport PA 19533, 610-374-4073.