Sussex County Community College

Career & Technical Education Board Workshop

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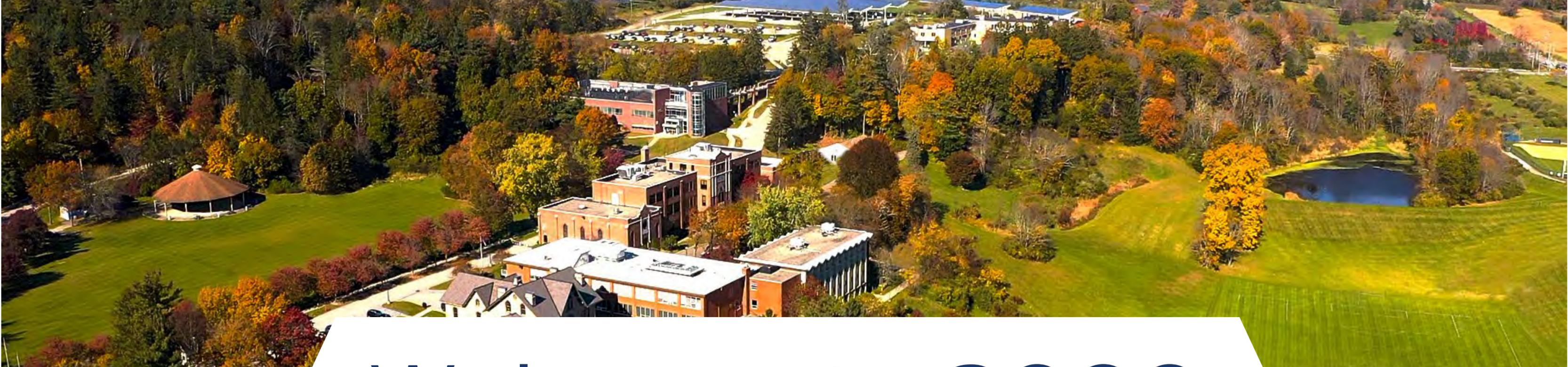
Welcome to SCCC

- Two-year Comprehensive Community College
- 167-Acre Campus located in Newton, NJ
- Over 3,000 students each year from 10 states and 14 countries.

2022-2026 Strategic Plan Areas of Focus

- High-Quality Academic and Occupational Programs
- Accessible & Supportive Environment
- Dynamic College Experience
- Lifelong Learning
- Inclusive College Community

Technical Occupations

Staff

Industry experts

Nationally credentialed

Program Overviews

Options

Certifications (30+)

Equipment (Perkins)

Technical Standards (25/26)

Partnerships

Direct ties to industry

Job Placement

Advisory Boards

Conclusion

Future goals

Questions

Technical Occupations Program Offerings

- Automotive
- Welding
- Building Construction Trades
- Diesel Technology
- Electrical Lineworker
- Advanced Manufacturing
- Optics Technology

- Medical Assistant
- Exercise Science
- Culinary
- Baking & Pastry
- Hospitality
- Agriculture Business
- Horticulture Science

Our Staff

- **Chef Martin Kester – Culinary Arts**
- **Chef Dan Kous - Hospitality**
- **Jack Stafford - Optics**
- **Dr Suzan Melik – Medical Assistant**
- **Nicholas Lionetti – Exercise Science**
- **Shane Conner – Electrical Lineworker**
- **Erin Primavera - Automotive**
- **Brianna Miller – Welding**
- **25 adjunct faculty members directly from industry**

ABOUT SCCC Automotive

Facility

Sussex County Community College's Automotive program offers a comprehensive learning experience, balancing lecture and hands-on technical lab instruction. Classes are held during the day and evening to accommodate a wide range of interested students. Lab classes are held at the McGuire Technical Center in Newton.

Updates

The Automotive shop has undergone an ongoing series of upgrades and new equipment. The workshop hosts six service bays, 2 with lifts. The facility is outfitted with Snap-On tools and equipment (HVAC machines, tire and wheel machines, miscellaneous other shop-related equipment). The entire facility recently had a major lighting upgrade to all new LED lights.
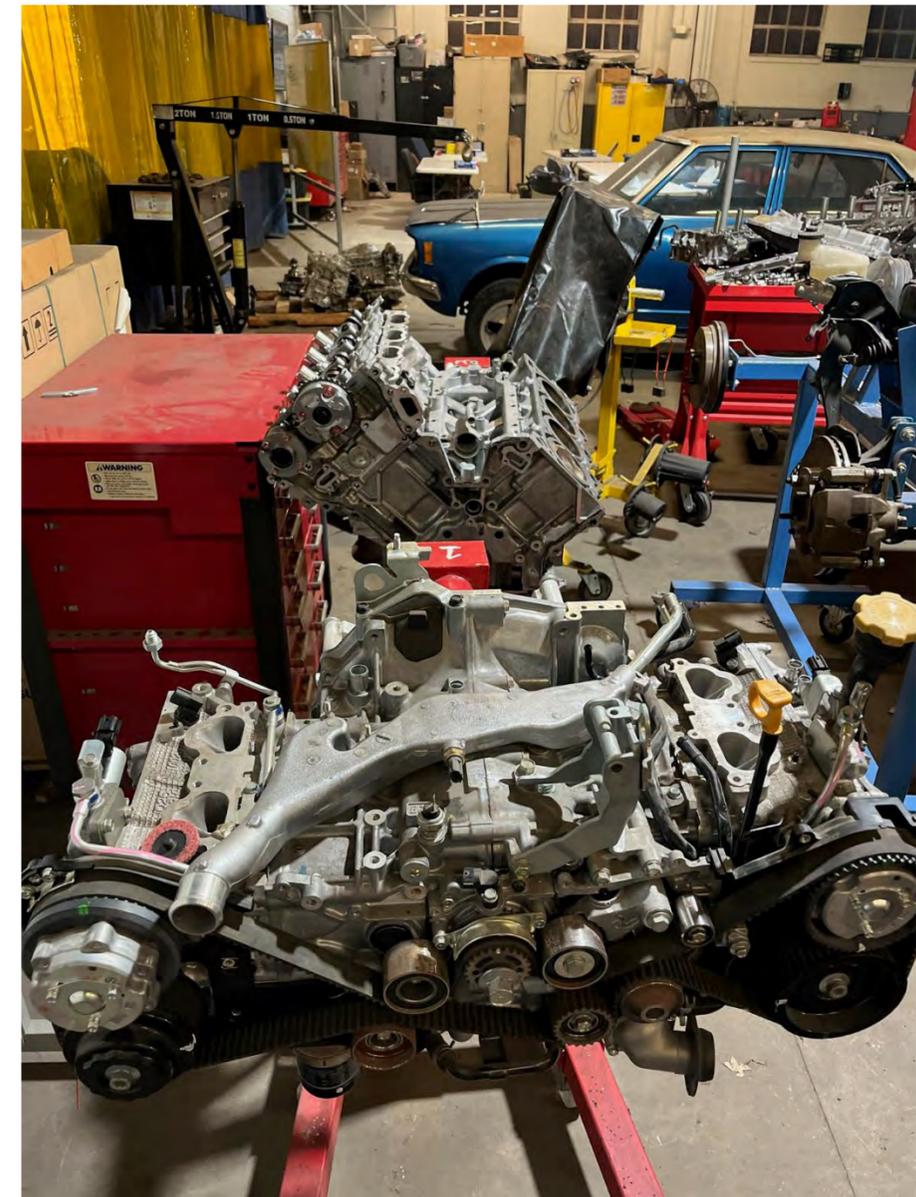
Automotive Program Offerings

AAS Automotive Technology

Sussex County COMMUNITY COLLEGE

FALL SEMESTER 1st YEAR		Credit Hours	☑
COLL101	Foundations for Success	3	☐
ENGL101	English Composition I	3	☐
COMS110	Computer Concepts & Applications	3	☐
AOTE101	Automotive Fundamentals	3	☐
AOTE110	Automotive Electrical Systems	3	☐
TOTAL FALL SEMESTER		**15**	

WINTER SESSION 1st YEAR			

SPRING SEMESTER 1st YEAR		Credit Hours	☑
ENGL201	Effective Speaking	3	☐
MATH105	Technical Mathematics	3	☐
AOTE118	Automotive Heating & Air Conditioning	3	☐
AOTE204	Manual Transmissions & Drivelines	3	☐
AOTE000	Program Elective	3	☐
TOTAL SPRING SEMESTER		**15**	

SUMMER SESSION 1st YEAR			

FALL SEMESTER 2nd YEAR		Credit Hours	☑
AOTE120	Automotive Brake Systems	3	☐
AOTE130	Steering & Suspension Systems	3	☐
AOTE203	Engine Construction, Operation & Service	3	☐
AOTE206	Automatic Transmissions & Transaxles	3	☐
GHMN000	Humanities Gen Ed Requirement	3	☐
TOTAL FALL SEMESTER		**15**	

WINTER SESSION 2nd YEAR			

SPRING SEMESTER 2nd YEAR		Credit Hours	☑
AOTE208	Advanced Automotive Electronics	3	☐
AOTE215	Automotive Engine Performance	3	☐
AOTE262	Service Center Internship	3	☐
GSOC000	Social Science Gen Ed Requirement	3	☐
GHMN000	Humanities Gen Ed Requirement	3	☐
TOTAL SPRING SEMESTER		**15**	

SUMMER SESSION 2nd YEAR			

TOTAL PROGRAM	**60**

Humanities or Social Science General Education courses
Choose from the list of approved Humanities or Social Science courses listed in the College catalog.

Program Electives (Recommended)
Recommended courses listed below but student can also choose from any course with an AOTE, BUSA, COMS or DESL designation.

DESL102	Diesel Engines	3	☐

Students may need to first take some developmental courses that are designed to prepare students for the college-level coursework in their academic plan. This may add to the students' completion time. The number of credits students take each semester will determine when the student will complete his/her program of study.

Certificate Automotive Technology

FALL SEMESTER 1st YEAR		Credit Hours	☑
ENGL101	English Composition I	3	☐
AOTE101	Automotive Fundamentals	3	☐
AOTE110	Automotive Electrical Systems	3	☐
AOTE120	Automotive Brake Systems	3	☐
AOTE203	Engine Construction, Operation & Service	3	☐
TOTAL FALL SEMESTER		**15**	

WINTER SESSION 1st YEAR			

SPRING SEMESTER 1st YEAR		Credit Hours	☑
MATH105	Technical Mathematics	3	☐
AOTE118	Automotive Heating & Air Conditioning	3	☐
AOTE130	Steering & Suspension Systems	3	☐
AOTE204	Manual Transmissions & Driveline	3	☐
AOTE206	Automatic Transmissions & Transaxles	3	☐
TOTAL SPRING SEMESTER		**15**	

TOTAL PROGRAM	**30**

Students may need to first take some developmental courses that are designed to prepare students for the college-level coursework in their academic plan. This may add to the students' completion time. The number of credits students take each semester will determine when the student will complete his/her program of study.

Program Offerings:

Automotive Technology Certificate*

It's the most popular option. One year, two-semester option for students to fast-track into the industry. Financial aid eligible.

AAS Automotive Technology

Two-year, four-semester option. Same cores courses as the Automotive Certificate, plus an additional 17-21 credits of electives and General Education courses. Requires an internship.

**both options offer ASE testing and certification in basic A series subjects
**Snap On 596 multimeter certification, Jump Start and Charge Certifications

Hybrid and EV Safety and Awareness

Project Self Sufficiency
(roughly 75 students a year)
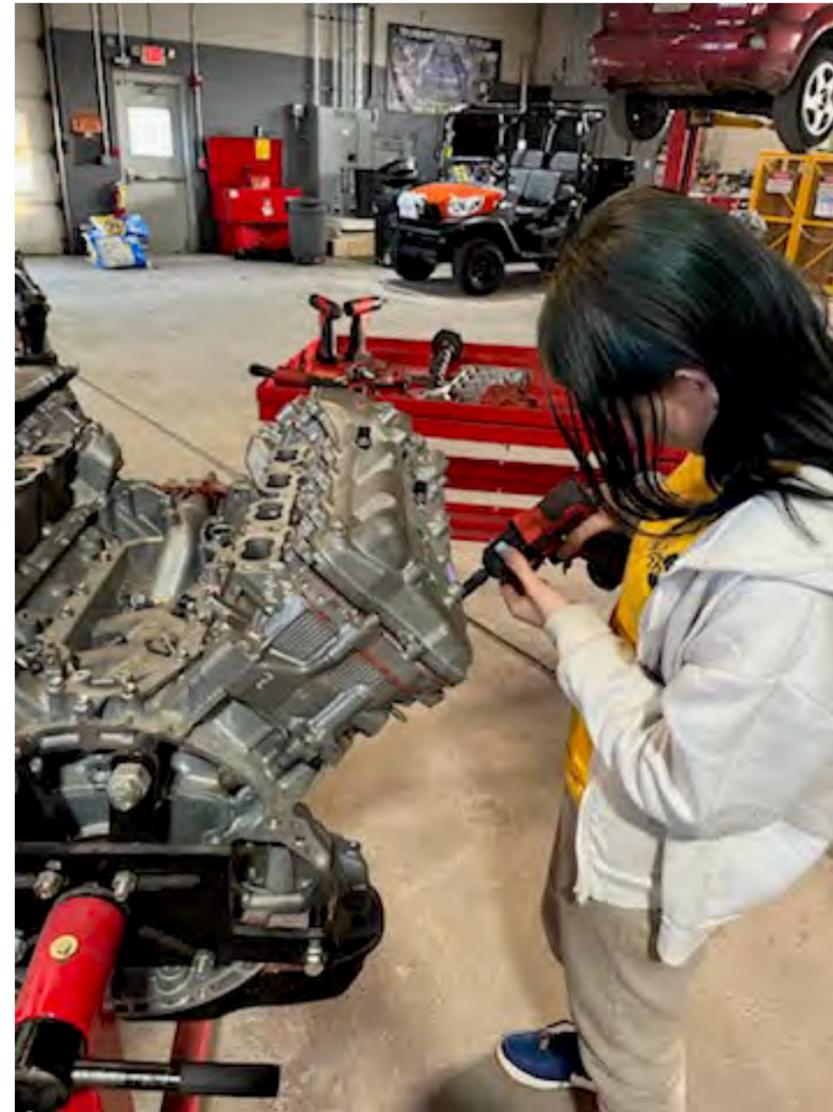
Future of Goals:

- Continue to develop industry partnerships
- Increase program internship offerings
- Further explore PLA/CPL opportunities for current workers
- Expand dual-enrollment opportunities
  - March 2025, SCCC and Sussex Tech signed an articulation agreement to fast-track students towards an AAS
- Increase Job placement
- Explore course design for EV and Hybrid (focused on safety and awareness)
- Continue to grown dual enrollment (Jumpstart) cohorts with local HS
  - Spring 25 our first Jump Start cohort will graduate SCCC with their degree/certificate in Automotive
  - Student earn 12 college credits in Automotive at the same time they complete their Senior year of highschool ($1600)

ABOUT SCCC Welding

Facility

Sussex County Community College's welding program offers training in a variety of welding processes (Stick, Mig, Tig, Pipe) and options. We offer a smaller more one-on-one learning environment for students. In addition, classes are held day and evening to accommodate a wide range of interested students.

Updates

The welding shop has undergone an ongoing series of upgrades and new equipment. It currently hosts 10 welding booths and multiple workstations for fabrication, layout, and instruction. Recently, the facility received an entire lighting upgrade to meet upcoming training compliance.

Program Options:

Welding Certificate*

FALL SEMESTER 1st YEAR		Credit Hours	☑
MATH105	Technical Mathematics	3	☐
WELD101	Welding Safety	3	☐
WELD105	Print Reading and Welding Symbols	3	☐
WELD115	Shielded Metal Arc Welding I	3	☐
WELD135	Gas Metal Arc Welding	3	☐
TOTAL FALL SEMESTER		15	

SPRING SEMESTER 1st YEAR		Credit Hours	☑
ENGL101	English Composition I	3	☐
WELD120	Welding Metallurgy	3	☐
WELD125	Shielded Metal Arc Welding II	3	☐
WELD201	Basic Pipe Welding	3	☐
WELD205	Gas Tungsten Arc Welding	3	☐
TOTAL SPRING SEMESTER		15	

TOTAL PROGRAM		30	

Students may need to first take some developmental courses that are designed to prepare students for the college-level coursework in their academic plan. This may add to the students' completion time. The number of credits students take each semester will determine when the student will complete his/her program of study.

Welding COA

FALL SEMESTER 1st YEAR		Credit Hours	☑
WELD101	Welding Safety	3	☐
WELD105	Print Reading and Welding Symbols	3	☐
WELD115	Shielded Metal Arc Welding I	3	☐
TOTAL FALL SEMESTER		9	

WINTER SESSION 1st YEAR

SPRING SEMESTER 1st YEAR		Credit Hours	☑
WELD120	Welding Metallurgy	3	☐
WELD125	Shielded Metal Arch Welding II	3	☐
WELD000	Welding Elective	3	☐
TOTAL SPRING SEMESTER		9	

SUMMER SESSION 1st YEAR

TOTAL PROGRAM		18	

Welding Elective courses
Choose from any course with a WELD course designation.

Students may need to first take some developmental courses that are designed to prepare students for the college-level coursework in their academic plan. This may add to the students' completion time. The number of credits students take each semester will determine when the student will complete his/her program of study.

AAS Welding Technology

FALL SEMESTER 1st YEAR		Credit Hours	☑
MATH105	Technical Mathematics	3	☐
WELD101	Welding Safety	3	☐
WELD105	Print Reading and Welding Symbols	3	☐
WELD115	Shielded Metal Arc Welding I	3	☐
WELD135	Gas Metal Arc Welding	3	☐
TOTAL FALL SEMESTER		15	

WINTER SESSION 1st YEAR

SPRING SEMESTER 1st YEAR		Credit Hours	☑
ENGL101	English Composition I	3	☐
WELD120	Welding Metallurgy	3	☐
WELD125**	Shielded Metal Arc Welding II	3	☐
WELD201**	Basic Pipe Welding	3	☐
WELD205**	Gas Tungsten Arc Welding	3	☐
TOTAL SPRING SEMESTER		15	

SUMMER SESSION 1st YEAR

FALL SEMESTER 2nd YEAR		Credit Hours	☑
ENGL125	Technical Writing and Communication I	3	☐
GTEC000	Technology Gen Ed Requirement	3	☐
GHMN000 or GSOC000	Humanities or Social Science Gen Ed Requirement	3	☐
WELD202**	Pipe Welding II	3	☐
WELD206**	Gas Tungsten Arc Welding II	3	☐
TOTAL FALL SEMESTER		15	

WINTER SESSION 2nd YEAR

SPRING SEMESTER 2nd YEAR		Credit Hours	☑
GNED000	General Education Requirement	3	☐
GNED000	General Education Requirement	3	☐
WELD140**	Welding Fabrication	3	☐
WELD230**	Creative Welding	3	☐
TSC000*	Technical Studies Core	3	☐
TOTAL SPRING SEMESTER		15	

SUMMER SESSION 2nd YEAR

TOTAL PROGRAM		60

Humanities or Social Science Gen Ed Requirement: Choose from the list of approved courses listed in the College catalog.

*Technical Studies Core Course (Recommended)
Technical Studies credits may be earned for corporate, industrial, or military training programs after review by a faculty assessor of related program. Individuals without sufficient technical training experience may select from the list of recommended courses below to satisfy the Technical Studies credit requirements. All courses should be selected with assistance from a faculty advisor.

WELD280	Welding Internship	3	☐
AOTE	Any AOTE course designation	3	☐
BCST	Any BCST course designation	3	☐
DESL	Any DESL course designation	3	☐
MCHT	Any MCHT course designation	3	☐

Technology General Education courses (Recommended)
Recommended courses listed below but student can also choose from the list of approved General Education courses in the College catalog.

COMS110	Computer Concepts & Applications	3	☐

**Program Elective Courses (Recommended)
Students with additional Technical Studies Core courses must meet with the Program Supervisor to discuss changes with elective courses.

Students may need to first take some developmental courses that are designed to prepare students for the college-level coursework in their academic plan. This may add to the students' completion time. The number of credits students take each semester will determine when the student will complete his/her program of study.

Offerings:

Welding Technology Certificate*

It's the most popular option. One year, two-semester option for students to fast-track into the industry. Financial aid eligible.

Welding Technology COA

Two semester option for students looking to enter the workforce quickly. Certificates of Achievement are not financial aid eligible.

AAS Welding Technology

Two-year, four semester option. Same courses classes as the Welding Certificate, plus an additional 17-21 credits of General Education courses.
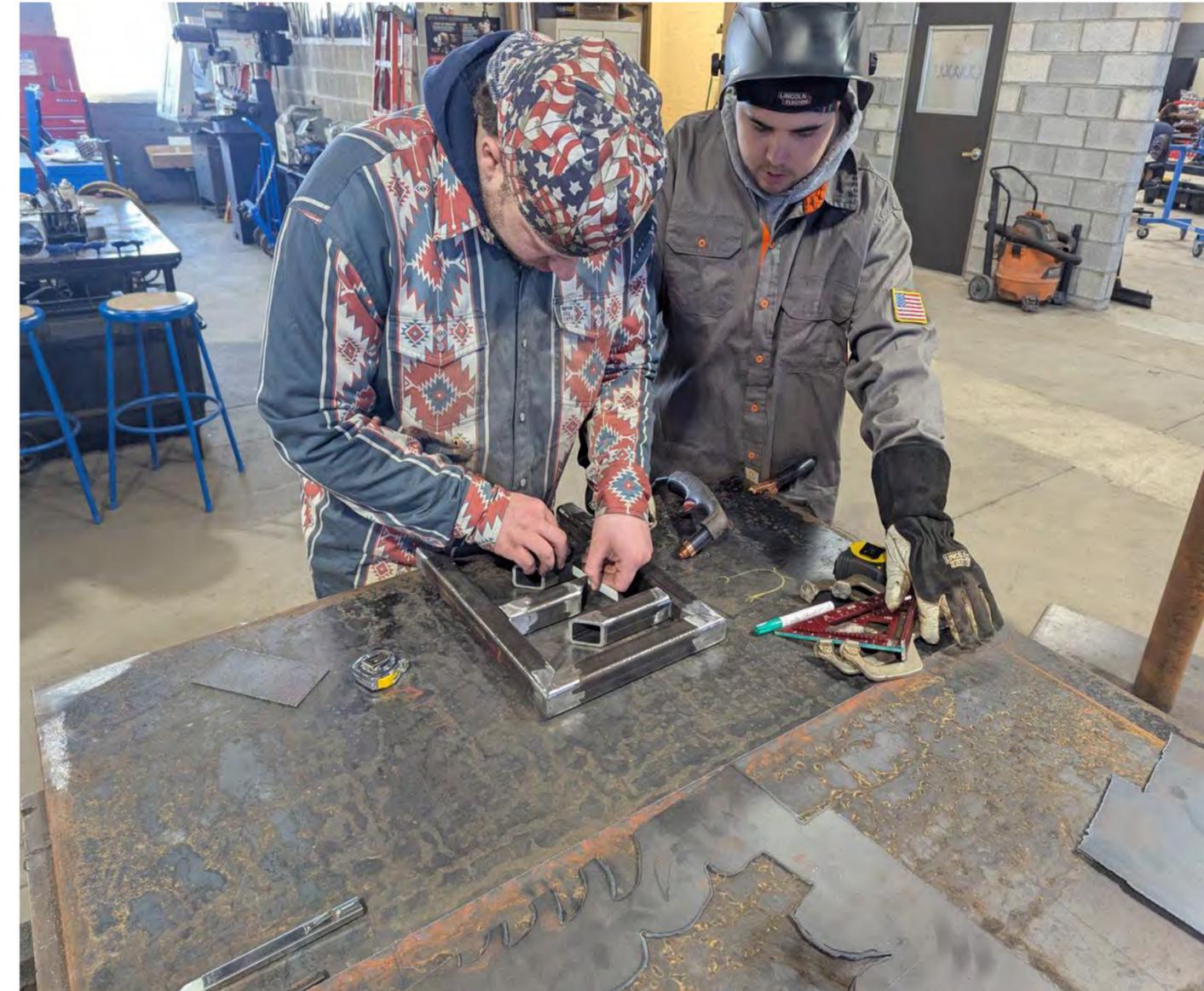
Welding Certification Testing
*AWS offerings in Stick, Tig, Mig, Pipe. OSHA 30 Certification
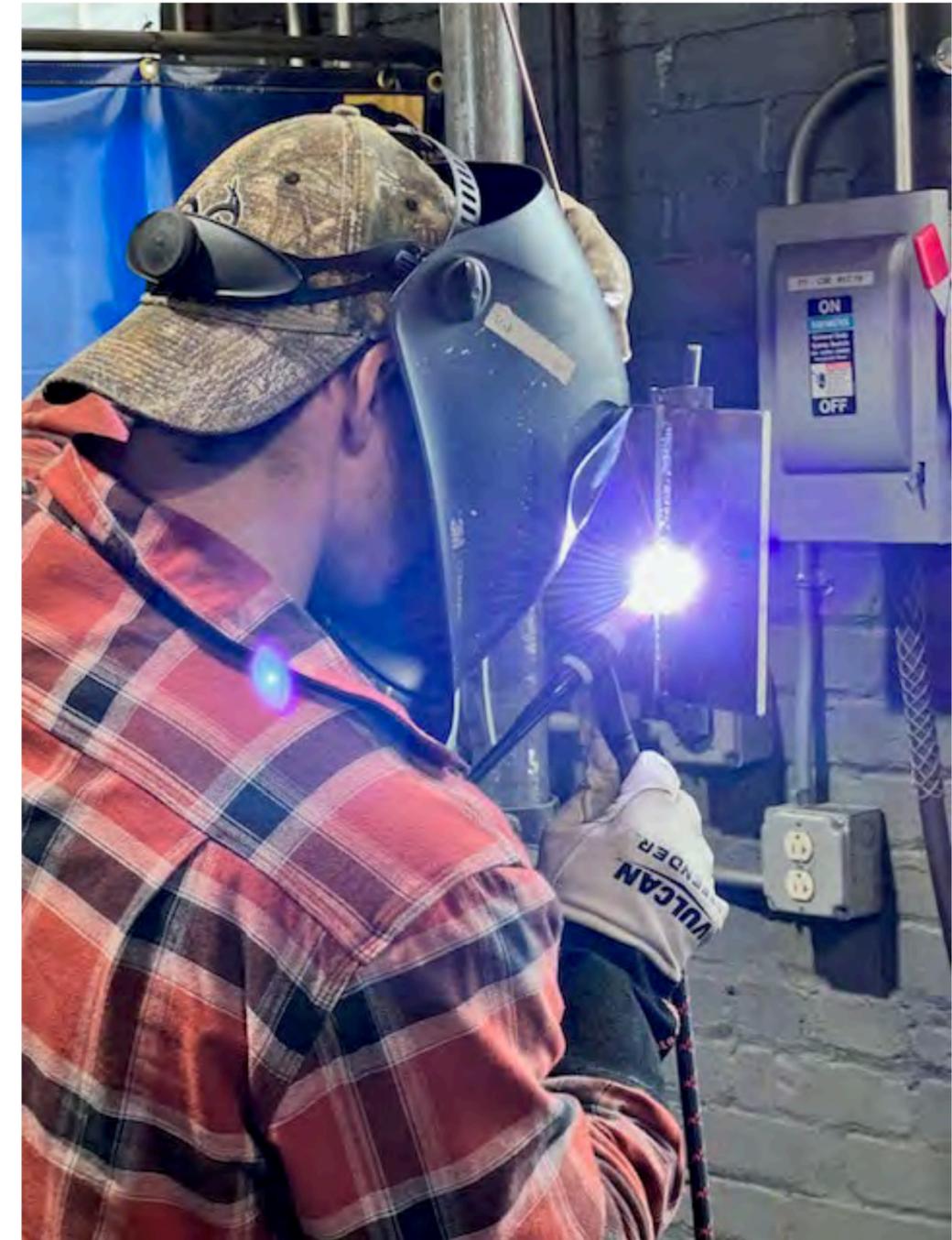
Recent updates: LED lighting and CNC Plasma
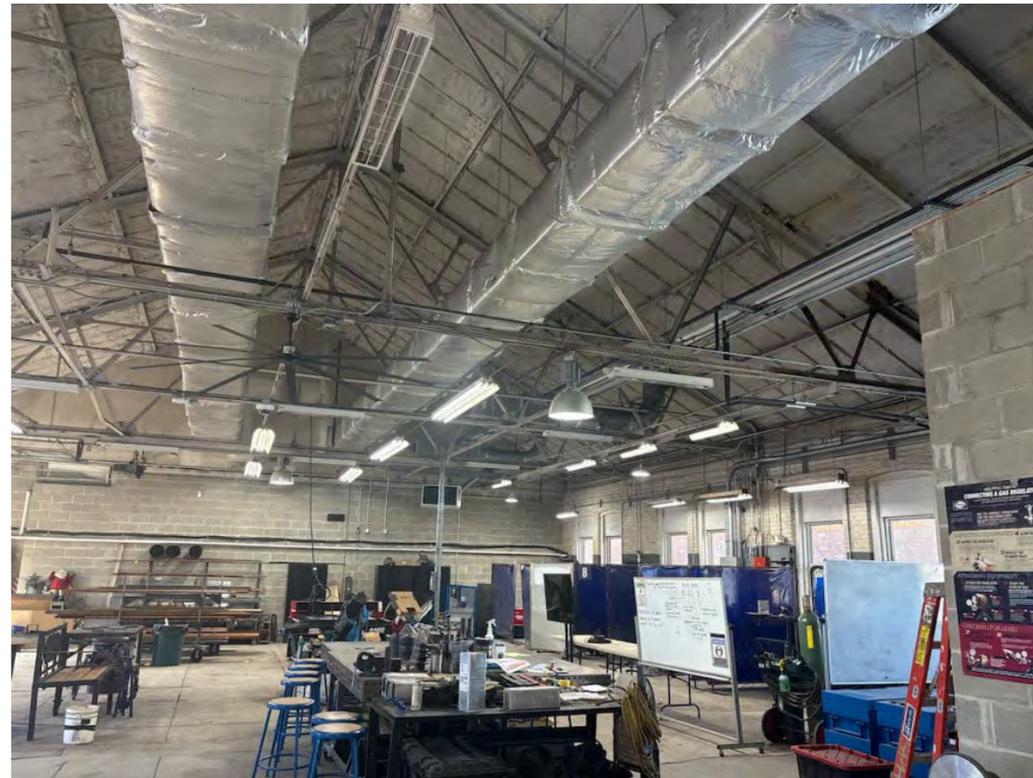
Community Engagement

Spring 25, Welding Program Supervisor Brianna Miller ran a pilot welding workshop themed in flower making
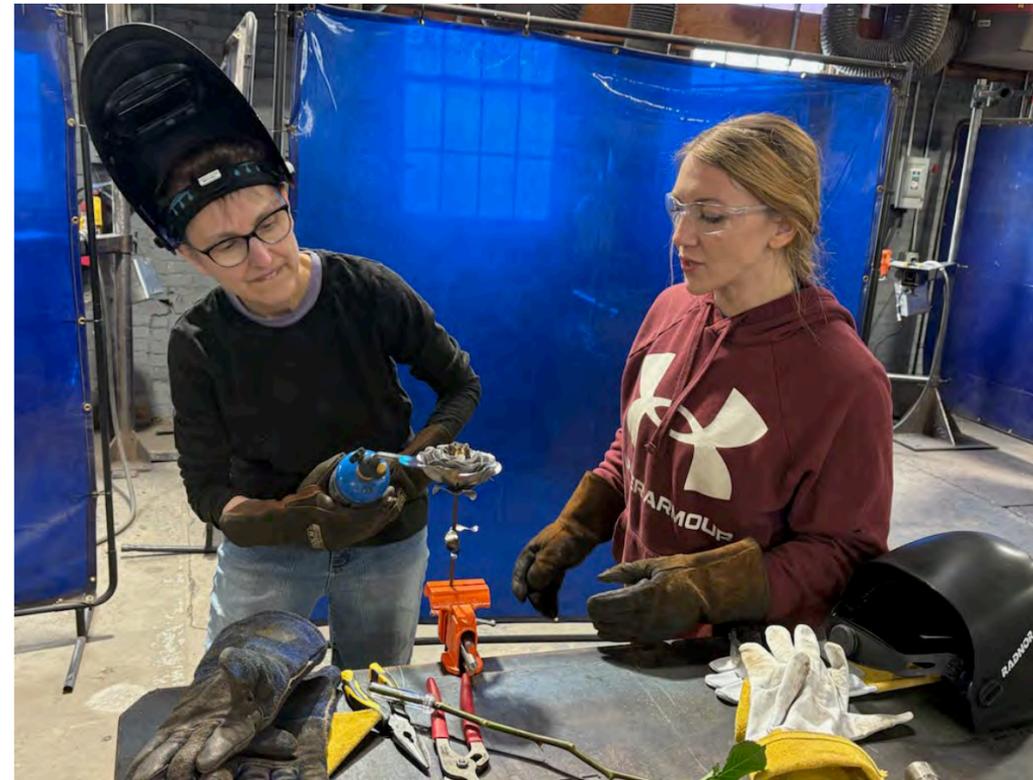
Future of Goals:

- Continue to develop industry partnerships
  - Last advisory board held April '25

- Over FY 25/26 explore options in CNC

- Increase program internship/apprenticeship offerings

- Further explore PLA/CPL opportunities for current workers

- Expand dual-enrollment opportunities with local HSs
  - March 2025, SCCC and Sussex Tech signed an articulation agreement to fast-track students towards an AAS
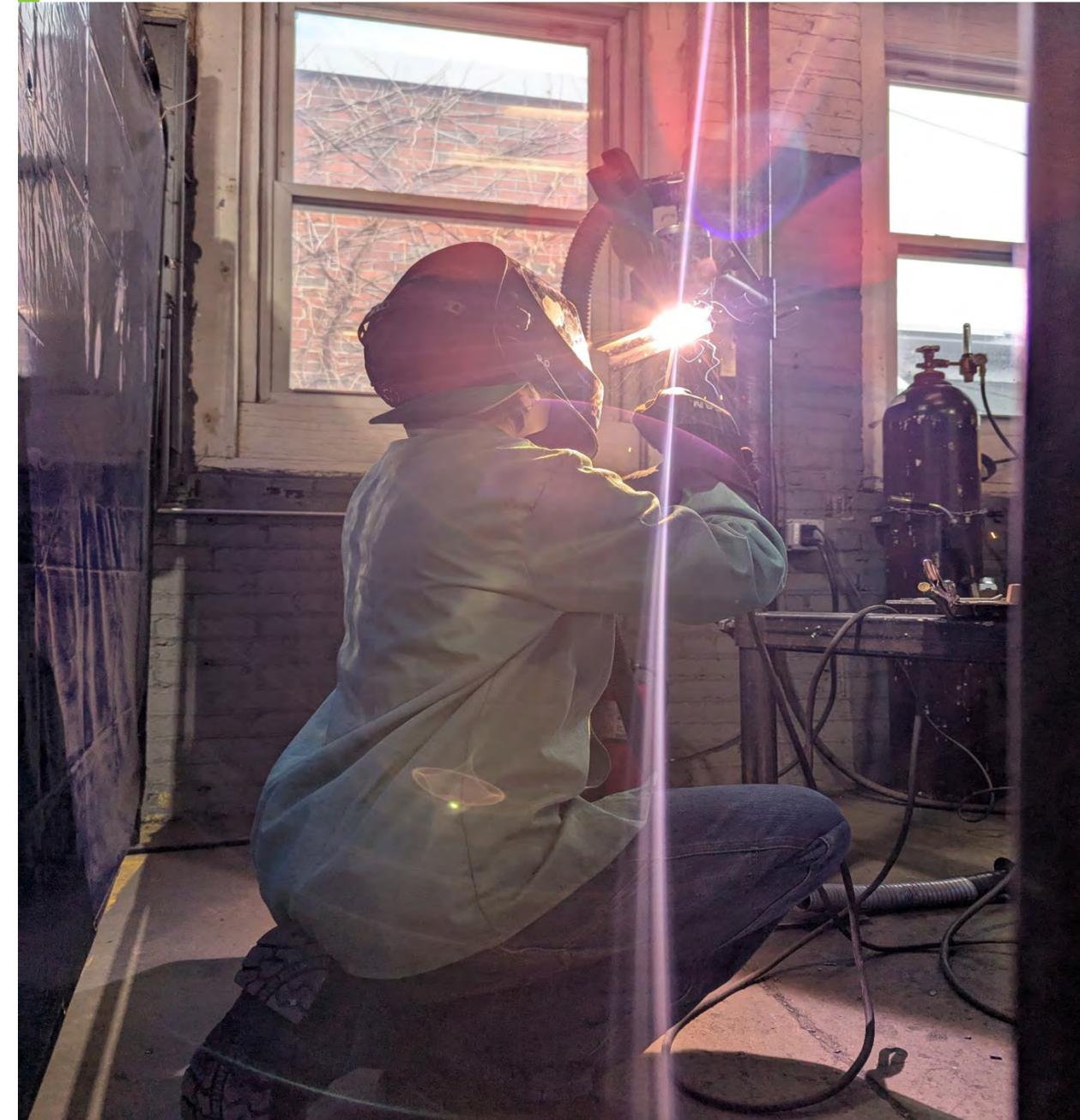
Building Construction Trades

Facility

Sussex County Community College's Building Construction Trades program offers a comprehensive learning experience, balancing lecture and hands-on technical lab instruction. Classes are held during the evening to accommodate a wide range of interested students. Lab classes are held at the McGuire Technical Center in Newton.

Updates

The Building Technology Program will undergo a renovation of the existing McGuire B building. This project will offer and additional 3000 sq. ft of lab and instruction space.
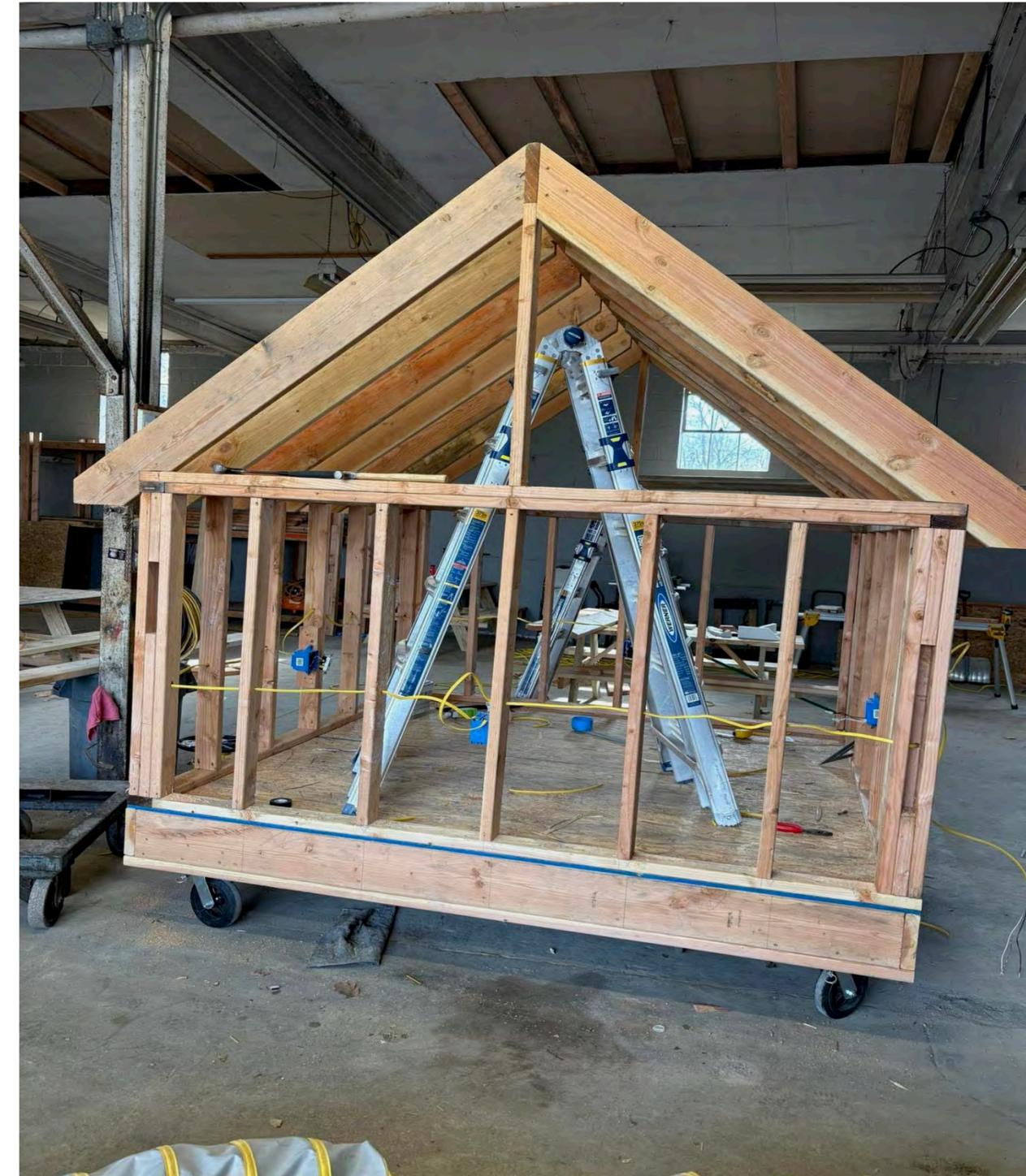
AAS Building Construction Trades

Summer 2025:

- **Current program curriculum will be revised to develop a more balanced approach to training**
  - Individual courses focused deeper into HVAC, Electrical, and Plumbing
  - TRANE Residental certification

- **A 30 credit Academic Certificate will also be developed**

FALL SEMESTER 1st YEAR		Credit Hours	☑
ENGL101	English Composition I	3	☐
MATH105	Technical Mathematics	3	☐
BCST101	Introduction to Building Construction	1	☐
BCST103	Construction Safety, Tools and Equipment	2	☐
BCST112	Print Reading and Sketching	3	☐
BCST125	Codes in Construction	1	☐
BCST130	Construction Site Prep and Layout	1	☐
TOTAL FALL SEMESTER		**14**	

WINTER SESSION 1st YEAR

SPRING SEMESTER 1st YEAR		Credit Hours	☑
GTEC000	Technology Gen Ed Requirement	3	☐
BCST142	Construction Materials and Methods I	3	☐
TSC000 or BCST000	Technical Studies Core or Program Elective	2	☐
TSC000 or BCST000	Technical Studies Core or Program Elective	4	☐
GNED000	General Education Requirement	3	☐
TOTAL SPRING SEMESTER		**15**	

SUMMER SESSION 1st YEAR

Humanities, Social Science, and General Education courses
Choose from the list of approved Humanities, Social Science, or General Education courses listed in the College catalog.

Technical Studies Core or Program Electives Courses (Recommended)**
Technical Studies credits may be earned for corporate, industrial, or military training programs after review by a faculty assessor of related program. Individuals without sufficient technical training experience must select courses in one of the programs/options listed below to satisfy the Technical Studies credit requirements. All courses should be selected with assistance from a faculty advisor.

BCST150	Introduction to Electrical and Mechanical Systems (SP)	2	☐
BCST210	Roof Structures/Stairs (SP)	4	☐
BCST230	Construction Materials and Methods II (FA)	3	☐
BCST255	Interior Finishes (FA)	2	☐
BCST260	Trim and Millwork (FA)	4	☐
BCST235	Weather Resistant Barriers and Finishes(SP)	2	☐
BCST245	Masonry Principles and Concrete Construction (SP)	4	☐
BCST280	Building Construction Internship (SP)	3	☐

FALL SEMESTER 2nd YEAR		Credit Hours	☑
ENGL125	Technical Writing & Communication	3	☐
TSC000 or BCST000	Technical Studies Core or Program Elective	3	☐
TSC000 or BCST000	Technical Studies Core or Program Elective	2	☐
TSC000 or BCST000	Technical Studies Core or Program Elective	4	☐
GHMN000 or GSOC000	Humanities or Social Science Gen Ed Requirement	3	☐
TOTAL FALL SEMESTER		**15**	

WINTER SESSION 2nd YEAR

SPRING SEMESTER 2nd YEAR		Credit Hours	☑
BCST270	Estimating, Planning, Scheduling and Management	4	☐
GNED000	General Education Requirement	3	☐
TSC000 or BCST000	Technical Studies Core or Program Elective	2	☐
TSC000 or BCST000	Technical Studies Core or Program Elective	4	☐
TSC000 or BCST000	Technical Studies Core or Program Elective	3	☐
TOTAL SPRING SEMESTER		**16**	

SUMMER SESSION 2nd YEAR

TOTAL PROGRAM	60

Technology General Education courses (Recommended)
Recommended courses listed below but student can also choose from the list of approved General Education courses in the College catalog.

COMS110	Computer Concepts & Applications	3	☐

**Select courses from one of the following programs(P)/options(O): (Courses must be approved by appropriate faculty advisor):

Business Management (P)

Computer Information Systems (P)

Engineering Science (O)

Graphic Design (P)

Machine Tool Technology (O)

Welding Technology (O)

Students may need to first take some developmental courses that are designed to prepare students for the college-level coursework in their academic plan. This may add to the students' completion time. The number of credits students take each semester will determine when the student will complete his/her program of study.

Building Construction Trades
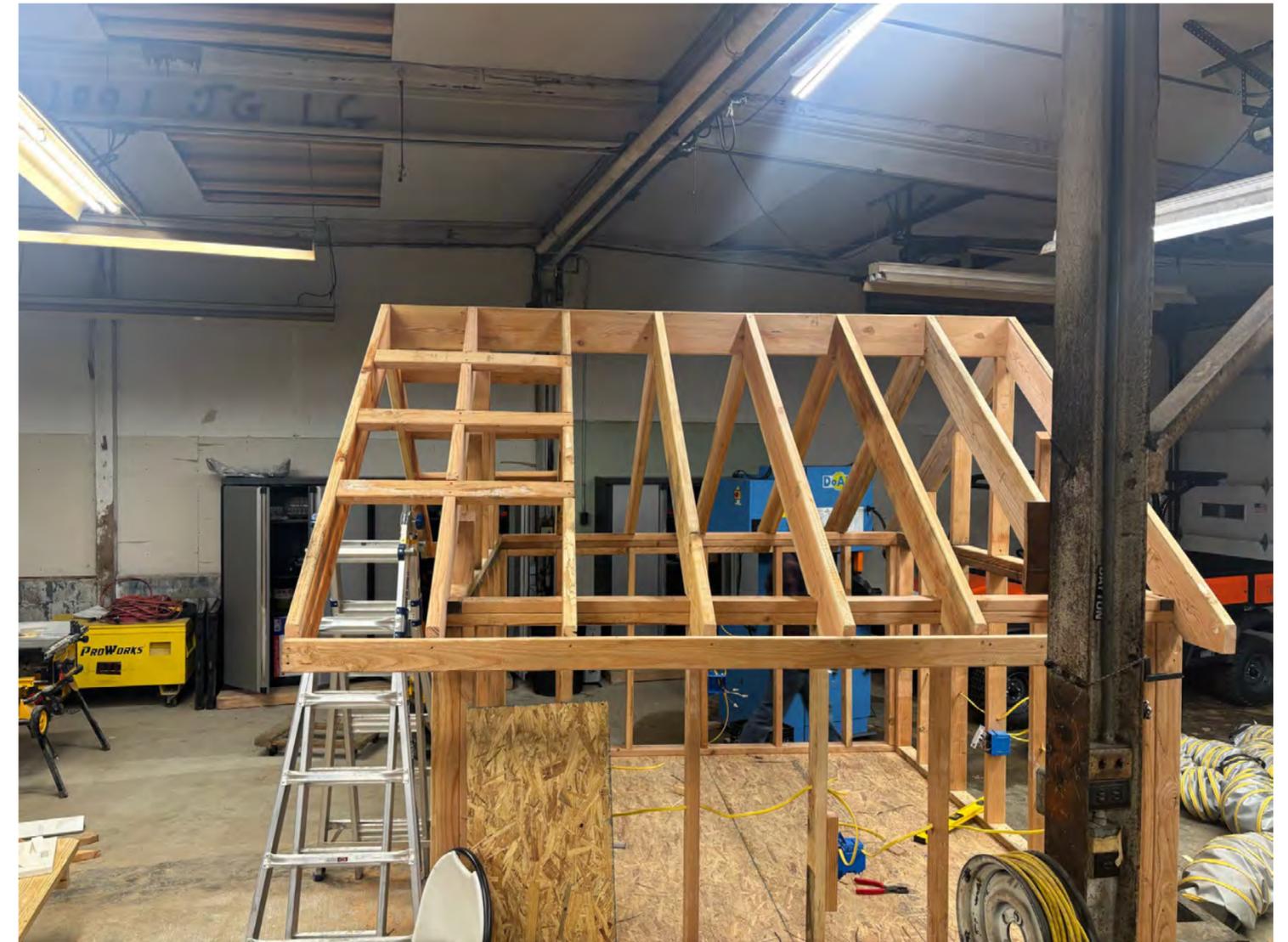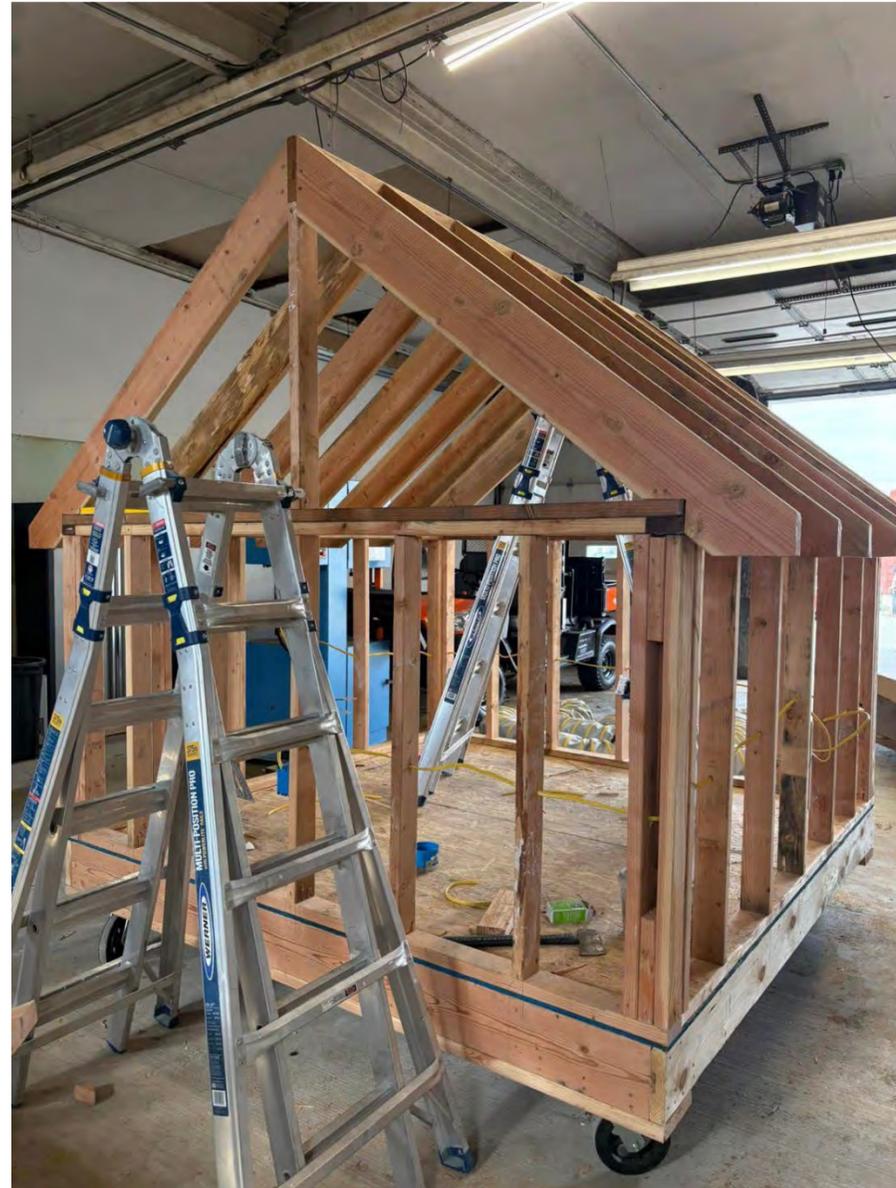
SCCC Diesel Technology


Facility

Sussex County Community College's Diesel technology program offers a comprehensive learning experience, balancing lecture and hands-on technical lab instruction. Classes are held during the evening to accommodate a wide range of interested students. Lab classes are held at the McGuire Technical Center in Newton.

Updates

The Diesel Service Technology Program will undergo a renovation of the existing McGuire B building. This project will offer and additional 3000 sq. ft of lab and instruction space.

Diesel Technology Options:

Sussex County COMMUNITY COLLEGE

Certificate in Diesel Technology

FALL SEMESTER 1st YEAR		Credit Hours	☑
ENGL101	English Composition I	3	☐
AOTE101	Automotive Fundamentals	3	☐
DESL102	Diesel Engines	3	☐
DESL104	Brake Systems	3	☐
DESL106	Electrical Systems	3	☐
TOTAL FALL SEMESTER		15	

WINTER SESSION 1st YEAR

SPRING SEMESTER 1st YEAR		Credit Hours	☑
MATH105	Technical Mathematics	3	☐
DESL103	Diesel Drivetrain	3	☐
DESL105	Steering and Suspension	3	☐
DESL107	Heating & Air Conditioning Systems	3	☐
ELEC000	Elective	3	☐
TOTAL SPRING SEMESTER		15	

SUMMER SESSION 1st YEAR

TOTAL PROGRAM	30

Elective course (Recommended)
Choose from any AOTE course designation, WELD115 or WELD135.

AOTE	Any AOTE course designation	3	☐
WELD115	Shielded Metal Arc Welding I	3	☐
WELD135	Gas Metal Arc Welding	3	☐

Students may need to first take some developmental courses that are designed to prepare students for the college-level coursework in their academic plan. This may add to the students' completion time. The number of credits students take each semester will determine when the student will complete his/her program of study.

AAS Diesel technology

FALL SEMESTER 1st YEAR		Credit Hours	☑
AOTE101*	Automotive Fundamentals	3	☐
DESL102	Diesel Engines	3	☐
DESL104	Brake Systems	3	☐
DESL106	Electrical Systems	3	☐
MATH105	Technical Mathematics	3	☐
TOTAL FALL SEMESTER		15	

FALL SEMESTER 2nd YEAR		Credit Hours	☑
AOTE203*	Engine Construction, Operation & Service	3	☐
ENGL125	Technical Writing & Communication I	3	☐
GHMN000 or GSOC000	Humanities or Social Science Gen Ed Requirement	3	☐
GTEC000	Technology Gen Ed Requirement	3	☐
DESL000*	Program Option Elective	3	☐
TOTAL FALL SEMESTER		15	

WINTER SESSION 1st YEAR

SPRING SEMESTER 1st YEAR		Credit Hours	☑
DESL103	Diesel Drivetrain	3	☐
DESL105	Steering and Suspension	3	☐
DESL107	Heating & Air Conditioning Systems	3	☐
ENGL101	English Composition I	3	☐
DESL000*	Program Option Elective	3	☐
TOTAL SPRING SEMESTER		15	

WINTER SESSION 2nd YEAR

SPRING SEMESTER 2nd YEAR		Credit Hours	☑
AOTE208*	Advanced Automotive Electronics	3	☐
DESL262*	Service Center Internship	3	☐
GNED000	General Education Elective	3	☐
GNED000	General Education Elective	3	☐
TSC000	Technical Studies Core	3	☐
TOTAL SPRING SEMESTER		15	

SUMMER SESSION 1st YEAR

SUMMER SESSION 2nd YEAR

TOTAL PROGRAM	60

*Technical Studies Core (TSC000) or Program Electives Courses (DESL000) (Recommended)
Technical Studies credits may be earned for corporate, industrial, or military training programs after review by a faculty assessor of related program. In addition to the recommended courses, individuals without sufficient technical training experience can select any of the recommended courses listed below to satisfy the Technical Studies and Program Elective credit requirements. All courses should be selected with assistance from a faculty advisor.

AOTE	Any AOTE course designation	3	☐
WELD115	Shielded Metal Arc Welding I	3	☐
WELD135	Gas Metal Arc Welding	3	☐

General Education Requirement
Choose from the list of approved General Education courses in the College catalog.

Technology General Education courses (Recommended)
Recommended courses listed below but student can also choose from the list of approved Technology General Education courses in the College catalog.

COMS110	Computer Concepts & Applications	3	☐

Humanities or Social Science Gen Ed Requirement: Choose from the list of approved courses listed in the College catalog.

Students may need to first take some developmental courses that are designed to prepare students for the college-level coursework in their academic plan. This may add to the students' completion time. The number of credits students take each semester will determine when the student will complete his/her program of study.

Diesel Service Technology

Electrical Lineworker at SCCC

Facility

The facility located at Wallkill Valley Regional High School is equipped with over 20 poles and a mobile teaching classroom (shed). The poles are equipped with training electrical lines, transformers, and other equipment that students would experience in the field.

Through Perkins funding, the program has expanded its training offerings to include exterior pole fields to simulate real-world electrical line draws and pulls, along with multiple workstations for transformer wiring, installation, and removal.

Sussex County
COMMUNITY COLLEGE

Electrical Lineworker

FALL SEMESTER 1st YEAR		Credit Hours	☑
MATH105	Technical Mathematics	3	☐
ELIN101	Utility Fundamentals and Safety	3	☐
ELIN105	Electric Circuit Theory I	3	☐
ELIN110	Electric Circuit Theory II	3	☐
ELIN115	Climbing Electrical Structures	3	☐
TOTAL FALL SEMESTER		**15**	

WINTER SESSION 1st YEAR			

SPRING SEMESTER 1st YEAR		Credit Hours	☑
ENGL101	English Composition I	3	☐
ELIN120	Construction of Overhead Structures	3	☐
ELIN125	Facilitate Teams and Pole/Bucket Rescue	2	☐
ELIN130	Electrical Structure Installation and Transformers	4	☐
ELIN135	Energy Industry Blueprints, Symbols and Documents	3	☐
TOTAL SPRING SEMESTER		**15**	

SUMMER SESSION 1st YEAR			

| **TOTAL PROGRAM** | | **30** | |

The Electrical Lineworker certificate program offers the students the opportunity to gain hands on skills and theoretical knowledge to be successful in the electrical utility industry.

Certifications:

- BLS and first Aid
- Flagging Certification
- OSHA 30
- CDL (in partnership with 160 Driving Academy)

Students may need to first take some developmental courses that are designed to prepare students for the college-level coursework in their academic plan. This may add to the students' completion time. The number of credits students take each semester will determine when the student will complete his/her program of study.

In 2022 SCCC Launched the Electrical Lineworker Program

The program stated on an minimally built up pole field, supported by industry volunteers from Sussex Rural Electric.

Today, 2025, the Electrical Lineworker program hosts:

- 25 pole climbing school
- 12 pole lab/skills training field
- 1 digger truck
- 1 bucket truck
- Fully heated field house

SCCC Lineworker Climbing School

Spring 2025 Lineman Expo. Spring 25, over 40+ attendees

Simulated "hot work"

Pole yard expansion

Current Partners

Sussex Rural Electric

PSE&G*

JCPL*

Orange and Rockland Utility*

Planet Networks**

Verizon – Fiber

Advanced Manufacturing

Facility

The Advanced Manufacturing Program at SCCC is housed primarily at Thor Labs in Andover. This mutual partnership has allowed for a seamless transition to support current Thor Labs employees looking to further their education in advanced manufacturing. This unique relationship also allows non-Thor Labs employees to see firsthand the fast-paced industry of Advanced Manufacturing.

Updates

Over the last three years, the Advanced Manufacturing Program at SCCC has received nearly $30,000 in scholarship money from the Gene Hass Foundation.

Advanced Manufacturing

CNC Mill and Lathe, manual mill and lathe, CNC simulators
ThorLabs Andover

Advanced Manufacturing

FALL SEMESTER 1st YEAR		Credit Hours	☑
ENGL101	English Composition I	3	☐
MATH105	Technical Mathematics	3	☐
MCHT103	Print and Drawing Interpretation	3	☐
MCHT105	Machine Tool Technology I	4	☐
MCHT115	Instruments, Tools & Machines	2	☐
TOTAL FALL SEMESTER		**15**	

WINTER SESSION 1st YEAR			

SPRING SEMESTER 1st YEAR		Credit Hours	☑
MCHT125	Machine Tool Technology II	4	☐
MCHT135	Introduction to CNC Program & Operations	3	☐
MCHT147	CNC Turning and Machine Centers	3	☐
MCHT280	Machine Tool Internship	4	☐
CERT000	Certificate Elective	3	☐
TOTAL SPRING SEMESTER		**17**	

SUMMER SESSION 1st YEAR			

TOTAL PROGRAM		**32**	

Certificate Electives			
COMS110	Computer Concepts and Applications	3	☐
MCHT225	Computer Aided Machining I	3	☐

Students may need to first take some developmental courses that are designed to prepare students for the college-level coursework in their academic plan. This may add to the students' completion time. The number of credits students take each semester will determine when the student will complete his/her program of study.

1 Year Certificate in Advanced Manufacturing

- Students gain experience in manual machining and metrology

- SolidWorks

- Basic CNC operation

- Fall 2024, concurrent enrollment course offerings were developed with High Point HS.

Optics Technology at SCCC

Facility

R Building Expansion

- Construction of expanded optics manufacturing facilities underway offering two dedicated classrooms, optics lab, and manufacturing space.
- Anticipated completion in December 2025.

Updates

STEM Day – Hosted 100 regional high school students for hands-on optics demonstrations.

Optics Trainings

Optical Coating Machine Training (December) with industry experts from *Satisloh* and *Thorlabs*.

Laser Alignment Training (March) with experts from *Optical Alignment Tech* and *Special Optics*.

- Program info sessions at *Thorlabs* and *Esco Optics* (May).

- *Summer Optics Workshop* – Two-day training for high school educators on optics industry careers and teaching strategies.
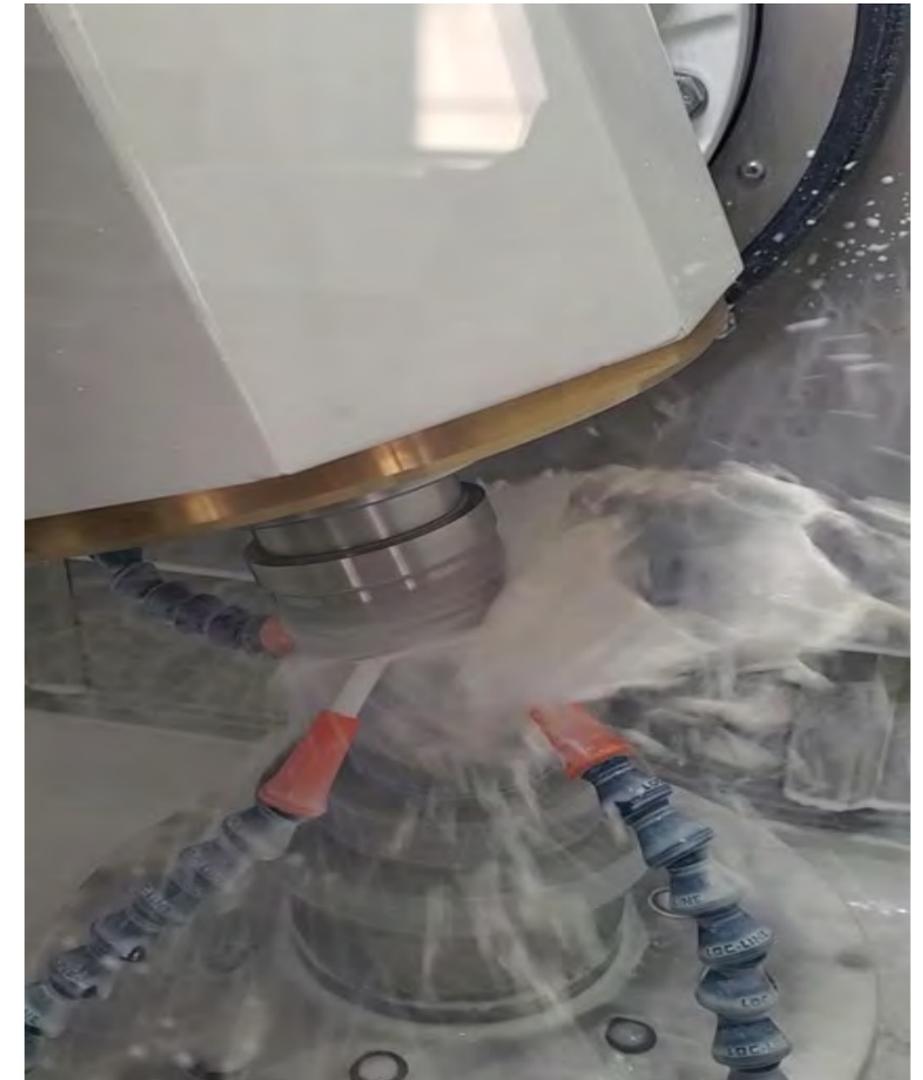
Program Offerings

The Optics Technology program provides students with hands-on training and practical knowledge in advanced manufacturing techniques used in the optics industry. Developed with input from regional industry partners, we offer:

A.A.S. in Optics Technology
A comprehensive program covering optics manufacturing technologies, providing both technical and general education.

Certificate Programs
Accelerated, focused training in:
CNC Optical Manufacturing
Conventional Optics Manufacturing
Optical Metrology

*SCTS offers Optics 101 concurrently in the Spring, enrollment average 18-25.
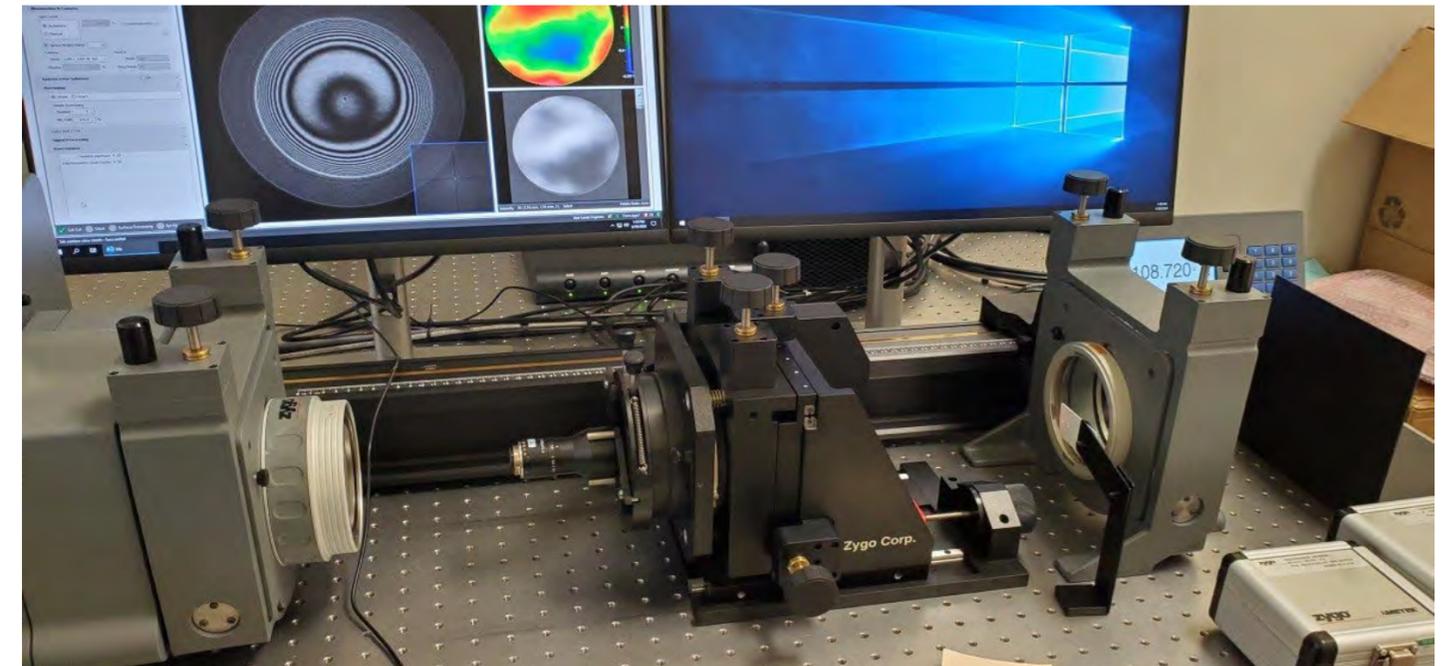
Student Success Stories

Mateo Pascale – First-year student with no prior optics experience, hired by industry partner Esco Optics.

Will Kane – Completing the one-year certificate in Optical Metrology, hired by Thorlabs.

Timothy Zayac – Recipient of the Student Excellence in Optics Award, graduating with an A.A.S. degree; continuing studies in Mechanical Engineering at Arizona State University.
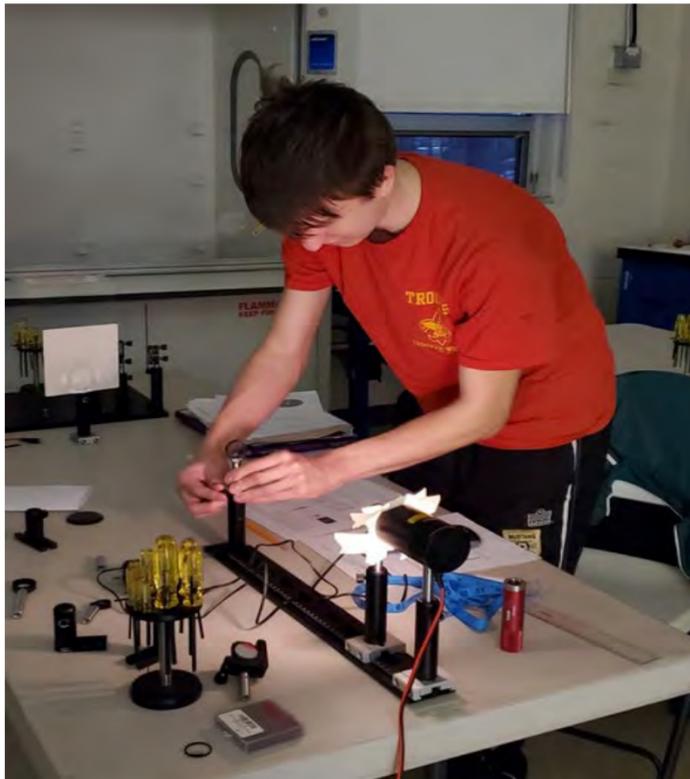
Project Self Sufficiency

Fundamentals of Optics is offered to Project Self-Sufficiency students, introducing them to optical science concepts and careers in the industry. (estimated 30-45 students this year)

Medical Assistant

Facility

The Medical Assistant program is located on the first floor of the Performing Arts building. Through grant funded initiatives, the College has been able to maintain high-quality and industry-specific equipment in the lab spaces.

Updates

The conversion of a computer lab was approved in the Spring 2025 Semester to expand the Medical Assisting lab and to make room for the new Patient Care Technology program. There will be a new nursing simulation lab being constructed in the summer of 2025 that will be used by all Allied Health programs.

Sussex County
COMMUNITY COLLEGE

Sussex County
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JOIN US AT OUR:

HEALTH FAIR

| **Monday, May 5** | Rooms A207 & A208 |
| Noon-3:00 PM | Health Sciences Building |

Stop by for a free health screening, everyone is welcome!

- Blood Pressure
- Blood Cholesterol
- Blood Glucose
- Hemoglobin Level
- Heart Rate
- Brief CPR Lesson
- Height
- Weight
- BMI

? For more information, contact smelik@sussex.edu

Medical Assistant at SCCC

FALL SEMESTER 1st YEAR		Credit Hours	☑
ENGL101	English Composition I	3	☐
MEDA101	Human Biology and Medical Terminology I	3	☐
MEDA110	Administrative Medical Office Procedures	3	☐
MEDA120	Cardiorespiratory and Emergency/First Aid Procedures	3	☐
MEDA130	Clinical Procedures for Medical Assistant	3	☐
TOTAL FALL SEMESTER		**15**	

WINTER SESSION 1st YEAR			

SPRING SEMESTER 1st YEAR		Credit Hours	☑
MEDA140	Pharmacology & Assisting with Minor Surgical Procedures	3	☐
MEDA150	Phlebotomy and Lab Procedures	3	☐
MEDA160	Practice Management and Electronic Health Records	3	☐
MEDA201	Human Biology and Medical Terminology II	3	☐
TOTAL SPRING SEMESTER		**12**	

SUMMER SESSION 1st YEAR			
PSYC101	Introduction to Psychology	3	☐
MEDA260	Medical Assistant Capstone/Practicum	6	☐
TOTAL SUMMER SEMESTER		**9**	

| **TOTAL PROGRAM** | | **36** | |

The number of credits students take each semester will determine when the student will complete his/her program of study.

Become a MEDICAL ASSISTANT

Exercise Science

Facility

Human Performance Lab moved from E-building to Makerspace in Spring 2024. The increased space has allowed for greater participation and engagement in lab experiments. Additionally, it has allowed us to purchase specialized equipment, such as the Wingate Cycle, to conduct exercise tests that would otherwise not be possible to conduct due to the lack of space in the previous lab.

Updates

- Finalizing the Early College Advancement Programming between SCCC & SCTS.

- Conversation started with Hopatcong HS and Kittatinny Regional HS regarding concurrent coursework and Early College Advancement Programs.

- Articulations with Centenary, WPU, and East Stroudsburg U. will be renewed/updated summer 2025 to reflect curriculum changes.

- Additional articulations will be explored.

Certifications

CPR& AED and First Aid

Certified Personal Trainer

Recent events
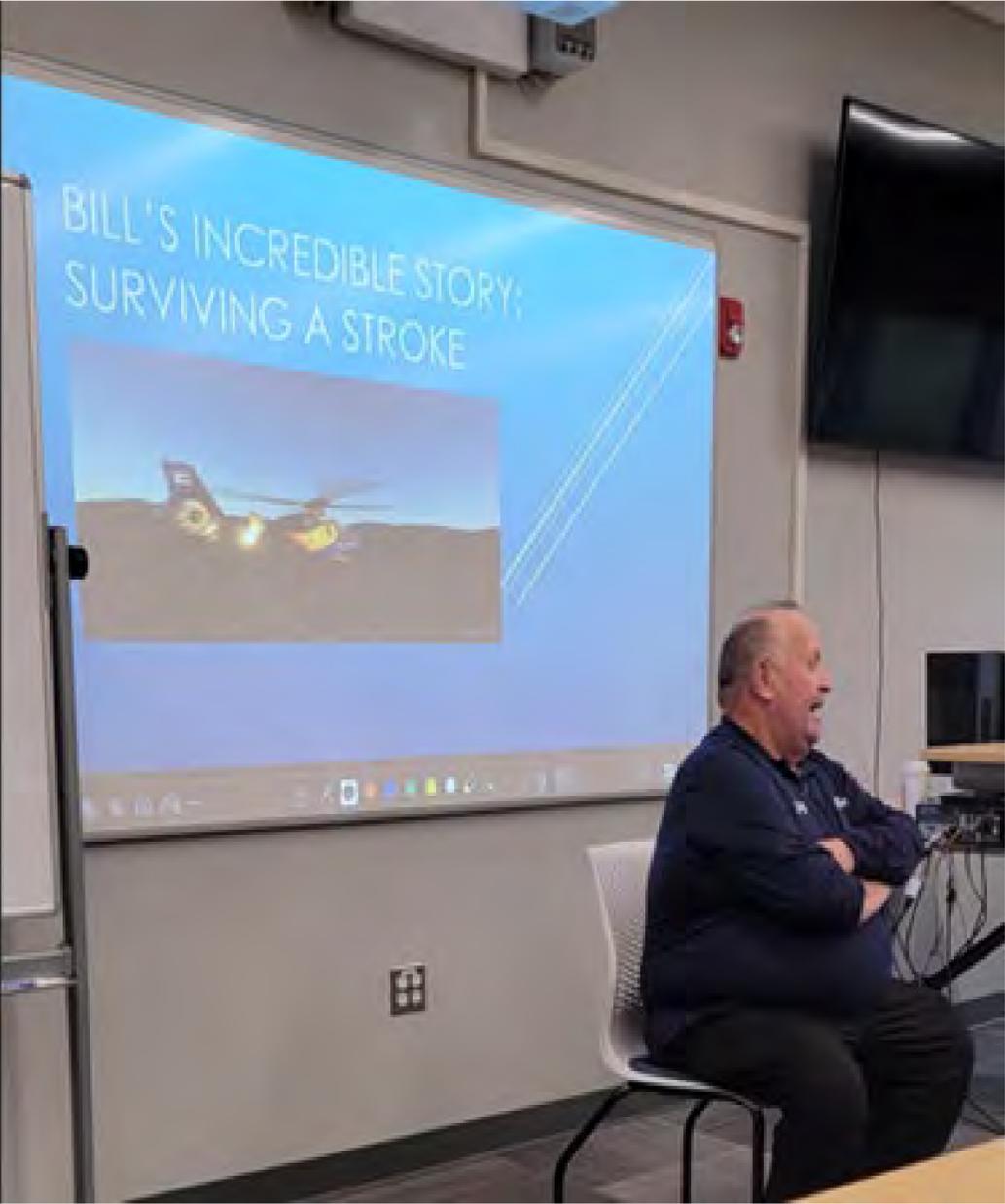
Culinary Arts

Program Offerings

- Culinary Arts Certificate
- Culinary Arts A.A.S
- Baking & Pastry Arts Certificate
- Baking & Pastry Arts A.A.S
- Hotel & Restaurant Management A.A.S

Updates

- Freshman Culinary students performed their Food Principles cooking practical at Bristol Glen with live action cooking stations for the residents.
- Freshman Culinary students prepared 2k thanksgiving meals for community members in need.
- Baking & Pastry students baked and donated 2k cookies for Project Self Sufficiency's Holiday Toy Drive.
- Culinary Jumpstart student Donovan Herrera completed his certificate last year as a senior at Newton H.S and is completing his A.A.S this semester.
- SP25 we hosted 3 dozen Sussex H.S Guidance Counselors at Arbor for our Lunch & Learn Sessions.
- SCCC Culinary has participated in 7 community/charity events.

Culinary Institute

Arbor Restaurant

This year…..

Arbor Restaurant is on pace to serve 2,700 guests this year.

Arbor Bakeshop is on pace to serve another 1,200 guests this year.

SCCC Culinary will have done 56 community workshops welcoming 672 guests.

Catering for 30 different college & community events

Agriculture & Horticulture

Facility

The Horticulture Science and Agriculture Business programs at SCCC have several skills labs. SCCC The main campus houses the existing SCCC Greenhouse. At the student farm, off Route 206 in Andover, students get to learn in a real-world setting. The SCCC Farm is a three-acre soil science lab and market garden. These unique opportunities not only provide vital learning for our students but also serve the campus community.

Updates

Currently, SCCC has created concurrent course offerings with Newton High School. These courses include topics such as Ecological Landscape Management, Introduction to Soil Science, Introduction to Agricultural Science, and Plant Propagation.

Program offerings:

Sussex County COMMUNITY COLLEGE

Program 1

FALL SEMESTER 1st YEAR		Credit Hours	☑
COLL101	Foundations for Success	3	☐
ENGL101	English Composition I	3	☐
MATH104	Contemporary Math	3	☐
AGSC101	Introduction to Agricultural Science	3	☐
AGSC107	Integrated Pest Management (FA)	4	☐
TOTAL FALL SEMESTER		**16**	

FALL SEMESTER 2nd YEAR		Credit Hours	☑
BIOS101	General Biology	4	☐
BUSA211	Management and Organizational Behavior	3	☐
COMS120	Computer Software Applications	3	☐
ECON102	Microeconomics	3	☐
AGBS000	Option Elective	3	☐
TOTAL FALL SEMESTER		**16**	

WINTER SESSION 1st YEAR

WINTER SESSION 2nd YEAR

SPRING SEMESTER 1st YEAR		Credit Hours	☑
ENGL125	Technical Writing and Communications I	3	☐
CHEM100	Introductory Chemistry	4	☐
BUSA101	Introduction to Business	3	☐
COMS110	Computer Concepts and Applications	3	☐
AGBS000	Option Elective	3	☐
TOTAL SPRING SEMESTER		**16**	

SPRING SEMESTER 2nd YEAR		Credit Hours	☑
AGSC201	Agricultural Marketing (SP)	3	☐
AGSC240	Agricultural Science Internship	3	☐
BUSA205	Business Law I	3	☐
GHMN000	Humanities Gen Ed Requirement	3	☐
TOTAL SPRING SEMESTER		**12**	

SUMMER SESSION 1st YEAR

SUMMER SESSION 2nd YEAR

TOTAL PROGRAM		**60**

Humanities General Education courses (Recommended)
Recommended courses listed below but student can also choose from the list of approved General Education courses in the College catalog.

SPAN101	Elementary Spanish I	3	☐
HUMN101	Survey of World Culture I	3	☐
HUMN102	Survey of World Culture II	3	☐
HIST105	U.S. History I	3	☐
HIST106	U.S. History II	3	☐

Option Electives (Recommended)
In addition to the recommended courses students may also choose from any ACCT, BIOS, BUSA, HORT or MATH108 courses listed in the College catalog.

ACCT101	Accounting Principles I Financial	3	☐
BIOS130	Introduction to Botany	4	☐
BUSA110	Business Communications	3	☐
HORT102	Plant Propagation (SP)	4	☐
HORT201	Introduction to Soil Science (FA)	4	☐

Students may need to first take some developmental courses that are designed to prepare students for the college-level coursework in their academic plan. This may add to the students' completion time. The number of credits students take each semester will determine when the student will complete his/her program of study.

Program 2

FALL SEMESTER 1st YEAR		Credit Hours	☑
COLL101	Foundations for Success	3	☐
ENGL101	English Composition I	3	☐
AGSC101	Introduction to Agricultural Science	3	☐
AGSC107	Integrated Pest Management (FA)	4	☐
BUSA101	Introduction to Business	3	☐
TOTAL FALL SEMESTER		**16**	

FALL SEMESTER 2nd YEAR		Credit Hours	☑
BIOS130	Introduction to Botany (FA)	4	☐
CHEM110	College Chemistry I	4	☐
HORT201	Introduction to Soil Science (FA)	4	☐
GSOC000	Social Science Gen Ed Requirement	3	☐
TOTAL FALL SEMESTER		**15**	

WINTER SESSION 1st YEAR

WINTER SESSION 2nd YEAR

SPRING SEMESTER 1st YEAR		Credit Hours	☑
ENGL102	English Composition II	3	☐
BIOS110	Biology I	4	☐
HORT102	Plant Propagation (SP)	4	☐
MATH110	Pre-Calculus I	3	☐
TOTAL SPRING SEMESTER		**14**	

SPRING SEMESTER 2nd YEAR		Credit Hours	☑
CHEM112	College Chemistry II	4	☐
HORT204	Greenhouse Management (SP)	4	☐
GHMN000	Humanities Gen Ed Requirement	3	☐
GSOC000	Social Science Gen Ed Requirement	3	☐
COLL212	Capstone for Graduation	1	☐
TOTAL SPRING SEMESTER		**15**	

SUMMER SESSION 1st YEAR

SUMMER SESSION 2nd YEAR

TOTAL PROGRAM		**60**

Humanities General Education courses (Recommended)
Recommended courses listed below but student can also choose from the list of approved General Education courses in the College catalog.

HIST105	U.S. History I	3	☐
HIST106	U.S. History II	3	☐
HUMN101	Survey of World Culture I	3	☐
HUMN102	Survey of World Culture II	3	☐
PHIL205	Contemporary Ethical Issues	3	☐

Social Sciences General Education courses (Recommended)
Recommended courses listed below but student can also choose from the list of approved General Education courses in the College catalog.

ANTH101	Introduction to Anthropology	3	☐
ECON102	Microeconomics	3	☐
PSYC101	Introduction to Psychology	3	☐
SOCA101	Introduction to Sociology	3	☐

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Spring 2025

- In a joint partnership with Rutgers University, SCCC hosted the first annual Eco-Friendly Conference.

- Presenters from Rutgers and SCCC covered various topics geared towards the " home-friendly" and DIY community.

- The goal of this conference was also to create awareness of all the programs offered locally, not only at SCCC but also at local high schools and four-year colleges.

Future Initiatives

- **Review and revise program curriculum**
  - Update articulation with SUNY Cobleskill

- **Expand current partnership with Hudson Farms, and explore similar framework with other local farms**

- **Continue to work with SCTS on articulation agreement(s)**

- **Spring and Summer 2025 will see the creation of new shared garden spaces on SCCC campus, as well as a community garden at the SCCC Student Farm**

Sussex County
COMMUNITY COLLEGE

New Programs and Initiatives:

- The Kubota Training Program (Fall 25)
- Heating and Air Conditioning (Trane Residential, FY 25/26)
- Hybrid and EV Technology
- Increased support to Technical Theater and the Arts
- Further collaborations with other academic areas
- Robotics
- Engineering
- Expanded Concurrent offerings
- Forklift Certification
- NJCCC – CDL and GIS
- Massage Therapy
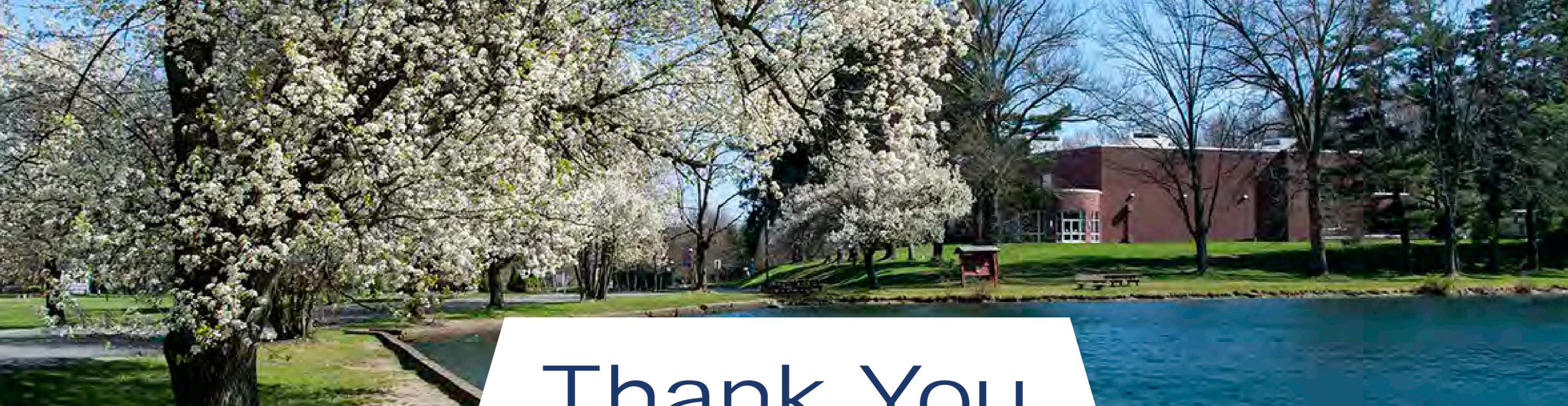
Thank You

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