

**TRANSFER ARTICULATION AGREEMENT**  
**BETWEEN**  
**PENNSYLVANIA COLLEGE OF TECHNOLOGY**  
**AND**  
**THADDEUS STEVENS COLLEGE OF TECHNOLOGY**

This Articulation Agreement establishes a mechanism for graduates of **Thaddeus Stevens College of Technology, Heating, Ventilation, & Air Conditioning, Refrigeration associate degree** to transfer specific earned credits into the **Building Automation Engineering Technology or Heating, Ventilation & Air Conditioning Engineering Technology bachelor degree** at Penn College.

**Thaddeus Stevens College of Technology** applicants must have a minimum final cumulative GPA of 2.0 (on a 4.0 scale).

### Building Automation Engineering Technology

<b>Penn College's Bachelor's Core</b>	<b>Satisfying Course(s) at Thaddeus Stevens</b>
Communication*: 9 credits	ENG106/3 credits = ENL111 ENG216/3 credits = ENL201 or ENG221/3 credits = SPC101
Quantitative Thinking**: 6 credits	MATH141 or MATH207/3 credits= MTH181 *If students complete MATH213 at Thaddeus Stevens, students will get credit for MTH181 and MTH183 at Penn College.
Technological Literacy***: 3 credits	CIS111/3 credits
Arts: 3 credits	
Global & Cultural Diversity: 3 credits	
Historical: 3 credits	Humanities Elective/3 credits
Natural Sciences: 7 credits	Science Elective/3 credits
Social Science: 3 credits	
Exploration Electives: 6 credits	MATH137/3 credits General Studies Elective/3 credits

\*Students completing ENG221 at Thaddeus Stevens will take ENL201 at Penn College. Students completing ENG216 at Thaddeus Stevens will take SPC101 at Penn College.

\*\*A student interested in transferring to the Building Automation Engineering Technology major at Penn College should complete, at a minimum, MATH137 and MATH141. These students would still need to complete MTH183 at Penn College. Students who complete MATH213 prior to enrolling at Penn College would not need to take an additional math course. Students who do not complete MATH141, MATH207 or MATH213, will need to complete both MTH181 and MTH183 at Penn College.

\*\*\*Students should complete CIS111 at Thaddeus Stevens. Students who do not complete CIS111 will need to complete CSC124 at Penn College.

Penn College Coursework: Building Automation Engineering Technology	Thaddeus Stevens – Heating, Ventilation, & Air Conditioning, Refrigeration (Credits)
<p><b>Directed Building Automation Technology Electives (42 credits)</b></p> <p>BBT ELC – Directed Building Automation Technology Electives (Semester 1 – 10 credits)</p> <p>BBT ELC - Directed Building Automation Technology Electives (Semester 2 – 12 credits)</p> <p>BBT ELC - Directed Building Automation Technology Electives (Semester 3 – 10 credits)</p> <p>BBT ELC - Directed Building Automation Technology Electives (Semester 4 – 10 credits)</p> <p>Open Electives (6 credits)</p> <p><b>Total - 48 credits</b></p>	<p><b>Completion of the Heating, Ventilation, &amp; Air Conditioning, Refrigeration associate degree and associated coursework</b></p> <p>HEAL Elective (1)</p> <p>HVAC 123 OSHA Electrical &amp; Construction Safety (1)</p> <p>HVAC 135 Electricity for HVACR (3)</p> <p>HVAC 138 Lab Practice I: Electrical Applications (2)</p> <p>HVAC 143 HVAC Installation Procedures (1)</p> <p>HVAC 146 Lab Practice II: Installation Procedures (2)</p> <p>HVAC 150 Principles of Refrigeration (3)</p> <p>HVAC 155 Residential Heating Systems (3)</p> <p>HVAC 160 Lab Practice III: Heating Applications (2)</p> <p>HVAC 167 Refrigerant System Components (2)</p> <p>HVAC 170 Lab Practice IV: Cooling Applications (2)</p> <p>HVAC 175 Refrigerant Management (2)</p> <p>HVAC 180 Mechanical Codes for HVACR (1)</p> <p>HVAC 206 Air Conditioning Systems (4)</p> <p>HVAC 211 Heat Pump Systems (3)</p> <p>HVAC 216 Systems Installation and Start Up (3)</p> <p>HVAC 221 Commercial Refrigeration (3)</p> <p>HVAC 256 Load Calculations (3 credits)</p> <p>HVAC 261 Controls of HVAC (3)</p> <p>HVAC 266 Ventilation (3)</p> <p>HVAC 271 System Servicing and Troubleshooting (3)</p> <p><b>Total - 50 credits</b></p>

### Remaining Coursework at Penn College: Building Automation Engineering Technology

Fifth Semester (Semester 1 at PCT)		Sixth Semester (Semester 2 at PCT)	
Course	Credits	Course	Credits
HVE HVAC Elective (BBT239 – Fundamentals of Electronics for Building Automation Technologies)	5	BBT 304 - Direct Digital Control of HVACR Equipment	4
BBT209 – Building Automation Industry	3	BBT344 – Electric, Pneumatic & Electronic Control Systems	4
**MTH183 College Algebra & Trigonometry II <b>OR</b> MTH161 Statistics for STEM Fields with Computer Applications	3 3.5	*SPC101 – Fundamentals of Speech <b>OR</b> ENL201 Technical & Professional Communication	3
PHS114 Physics with Technological Applications	4	CDP Core Global & Cultural Diversity Perspective	3
<b>Total Credits</b>	<b>15 or 15.5</b>	<b>Total Credits</b>	<b>14</b>

### Summer Session

BBT310 – Building Automation Industry Internship = 1 credit

Seventh Semester (Semester 3 at PCT)		Eighth Semester (Semester 4 at PCT)	
Course	Credits	Course	Credits
BBT407 - Building Control Networks I	3	BBT415 - Integrated Building Operation & Energy Management	3
BBT412 – Building Commissioning & Recommissioning	3	BBT417 - Building Control Networks II	4
BBT414 – Building Automation Programming	3	BBT496 – Senior Seminar – Lab	2
BBT495 – Senior Seminar – Lecture	1	SSP Core Social Science Elective	3
ARP Core Arts Perspective	3		
<b>Total Credits</b>	<b>13</b>	<b>Total Credits</b>	<b>12</b>

Penn College recommends using the Transfer Course Equivalency crosswalk

(<https://as400sec.pct.edu/CourseCrosswalk/>) to choose Electives that will satisfy electives in Penn College's Bachelor Core.

## Heating, Ventilation & Air Conditioning Engineering Technology

<b>Penn College's Bachelor's Core</b>	<b>Satisfying Course(s) at Thaddeus Stevens</b>
Communication*: 9 credits	ENG106/3 credits = ENL111 ENG216/3 credits = ENL201 or ENG221/3 credits = SPC101 (SPC Elective)
Quantitative Thinking**: 6 credits	MATH141 or MATH207/3 credits= MTH181 *If students complete MATH213 at Thaddeus Stevens, students will get credit for MTH181 and MTH183 at Penn College.
Technological Literacy***: 3 credits	CIS111/3 credits
Arts: 3 credits	
Global & Cultural Diversity: 3 credits	
Historical: 3 credits	Humanities Elective/3 credits
Natural Sciences: 7 credits	Science Elective/3 credits (Physics course is recommended).
Social Science: 3 credits	
Exploration Electives: 3 credits	MATH137/3 credits

\*Students completing ENG221 at Thaddeus Stevens will take ENL201 at Penn College. Students completing ENG216 at Thaddeus Stevens will take speech elective (SPC) at Penn College.

\*\*A student interested in transferring to the Heating, Ventilation & Air Conditioning Engineering Technology major at Penn College should complete, at a minimum, MATH137 and MATH141. These students would still need to complete MTH183 at Penn College. Students who complete MATH213 prior to enrolling at Penn College would not need to take an additional math course. Students who do not complete MATH141, MATH207 or MATH213, will need to complete both MTH181 and MTH183 at Penn College.

\*\*\*Students should complete CIS111 at Thaddeus Stevens. Students who do not complete CIS111 will need to complete CSC124 at Penn College.

Penn College recommends using the Transfer Course Equivalency crosswalk

(<https://as400sec.pct.edu/CourseCrosswalk/>) to choose Electives that will satisfy electives in Penn College's Bachelor Core.

Penn College Coursework: Heating, Ventilation & Air Conditioning Engineering Technology	Thaddeus Stevens – Heating, Ventilation, & Air Conditioning, Refrigeration (Credits)
<p><b>All HVAC Coursework in the first four semesters of the Heating, Ventilation &amp; Air Conditioning Engineering Technology bachelor's degree</b></p> <p>Open Electives (5 credits)</p> <p><b>Total - 53 credits</b></p>	<p><b>Completion of the Heating, Ventilation, &amp; Air Conditioning, Refrigeration associate degree and associated coursework</b></p> <p>HEAL Elective (1)</p> <p>General Studies Elective (3)</p> <p>HVAC 123 OSHA Electrical &amp; Construction Safety (1)</p> <p>HVAC 135 Electricity for HVACR (3)</p> <p>HVAC 138 Lab Practice I: Electrical Applications (2)</p> <p>HVAC 143 HVAC Installation Procedures (1)</p> <p>HVAC 146 Lab Practice II: Installation Procedures (2)</p> <p>HVAC 150 Principles of Refrigeration (3)</p> <p>HVAC 155 Residential Heating Systems (3)</p> <p>HVAC 160 Lab Practice III: Heating Applications (2)</p> <p>HVAC 167 Refrigerant System Components (2)</p> <p>HVAC 170 Lab Practice IV: Cooling Applications (2)</p> <p>HVAC 175 Refrigerant Management (2)</p> <p>HVAC 180 Mechanical Codes for HVACR (1)</p> <p>HVAC 206 Air Conditioning Systems (4)</p> <p>HVAC 211 Heat Pump Systems (3)</p> <p>HVAC 216 Systems Installation and Start Up (3)</p> <p>HVAC 221 Commercial Refrigeration (3)</p> <p>HVAC 256 Load Calculations (3 credits)</p> <p>HVAC 261 Controls of HVAC (3)</p> <p>HVAC 266 Ventilation (3)</p> <p>HVAC 271 System Servicing and Troubleshooting (3)</p> <p><b>Total - 53 credits</b></p>

**Remaining Coursework at Penn College: Heating, Ventilation & Air Conditioning Engineering Technology**

<b>Fifth Semester (Semester 1 at PCT)</b>		<b>Sixth Semester (Semester 2 at PCT)</b>	
Course	Credits	Course	Credits
BHV311 Fundamentals of Engineered Systems Design	3	BHV320 Advanced Cooling System Design	3
BHV316 Heating & Cooling System Configurations	3	BHV325 Advanced Heating Design	3
**MTH183 College Algebra & Trigonometry II	3	MGT115 Principles of Management	3
*ENL201 Technical & Professional Communication <b>OR</b> SPC Elective	3	PHL210 Ethics	3
SCL Science Elective with Lab	4	OEA Open Elective	1
<b>Total Credits</b>	<b>16</b>	<b>Total Credits</b>	<b>13</b>

<b>Seventh Semester (Semester 3 at PCT)</b>		<b>Eighth Semester (Semester 4 at PCT)</b>	
Course	Credits	Course	Credits
BHV366 Advanced HVAC Control Systems	3	BHV431 Environmental Impacts of the HVAC Industry	3
BHV400 Commercial Refrigeration Systems Design	3	BHV432 Mechanical System Design	3
ARP Core Arts Perspective	3	BHV495 Senior Project	3
SSP Core Social Science Elective	3	CDP Global & Cultural Diversity Perspective	3
<b>Total Credits</b>	<b>12</b>	<b>Total Credits</b>	<b>12</b>

### Additional Transfer Information

- Students must have gained admission to Penn College and met placement requirements.
- Students must complete a minimum of 36 credits at Penn College for coursework prescribed in the final four semesters of the curriculum sequence, as set forth in the official College Catalog.
- Students transferring to Penn College are eligible and will be considered for scholarship opportunities the same as currently enrolled students. Students must meet the application deadlines for scholarships for the fall and spring enrollment. Students must be accepted to the College to be eligible.
- Penn College will only consider those credits earned through **Thaddeus Stevens College of Technology** for the terms of this Articulation Agreement. Students must request transcripts from additional institutions to be evaluated on an individual basis at Penn College.
- Individuals must submit a completed Penn College application.
  - Note: When selecting the **Building Automation Engineering Technology** major on the Penn College application, students will be prompted to select a secondary major that most closely aligns with their associate's degree. For purposes of this agreement, students should select the **Heating, Ventilation & Air Conditioning Technology (HV)** major. Once the completed associate degree from **Thaddeus Stevens College of Technology** has been verified by the Registrar's Office, the secondary major will be removed.
- Individuals must provide an **official** transcript of all college coursework.

Articulation formalized August 2025