

# CONSTRUCTION SUPERVISION (AAS)

**Catalog Effective Term:** Fall 2024

**Program Code:** APCNSP

**Credential:** Associate in Applied Science

**Program is also available online**

*High Demand Occupation, High Skill Occupation, High Wage Occupation*

This program gives apprentice and journey-level members of the articulated union building trade apprenticeship programs the opportunity to apply their apprenticeship training and trade-related experience toward an associate's degree in Construction Supervision. In addition to the courses in Construction Supervision, students will complete general education courses and receive prior learning credit for their work experience and apprenticeship.

## Program Admission Requirements

The program is only open to active members of articulated union building trade apprenticeship programs.

The program is only open to United Association of Plumbers Apprentices/Journeymen.

Students must complete an apprenticeship program concentration in plumbing, pipefitting, HVAC, sprinkler fitting, ironworking, bricklaying, tile setting or other approved union building trade. Upon completion of this, students should apply for non-traditional credit evaluation of their apprenticeship experiences to meet the apprentice program concentration requirement (19-26 credits).

**Minimum Credits Required for the Program: 60**

## Program Requirements

Course	Title	Credits
<b>First Semester</b>		
UAS 111	Construction Supervision I: Motivating Employees	3
Math Elective(s) ( <a href="https://coursecatalog.wccnet.edu/academics/general-education/#math">https://coursecatalog.wccnet.edu/academics/general-education/#math</a> ) <sup>1</sup>		3
Writing Elective(s) ( <a href="https://coursecatalog.wccnet.edu/academics/general-education/#writing">https://coursecatalog.wccnet.edu/academics/general-education/#writing</a> )		4
Union Approved Apprenticeship		5
<b>Credits</b>		<b>15</b>
<b>Second Semester</b>		
UAS 122	Construction Supervision II: Supervisory Skills	3
UAS 210	Construction Supervision III: Legal and Personnel Aspects	3
Arts/Human. Elective(s) ( <a href="https://coursecatalog.wccnet.edu/academics/general-education/#arthuma">https://coursecatalog.wccnet.edu/academics/general-education/#arthuma</a> )		3
Speech/Comp. Elective(s) ( <a href="https://coursecatalog.wccnet.edu/academics/general-education/#writing">https://coursecatalog.wccnet.edu/academics/general-education/#writing</a> ) <sup>2</sup>		3
Union Approved Apprenticeship		3
<b>Credits</b>		<b>15</b>
<b>Third Semester</b>		
UAS 222	Construction Supervision IV: The Construction Project	3

Nat. Sci. Elective(s) ( <a href="https://coursecatalog.wccnet.edu/academics/general-education/#naturalsci">https://coursecatalog.wccnet.edu/academics/general-education/#naturalsci</a> ) <sup>3</sup>	3
Soc. Sci. Elective(s) ( <a href="https://coursecatalog.wccnet.edu/academics/general-education/#socbehavsci">https://coursecatalog.wccnet.edu/academics/general-education/#socbehavsci</a> )	3
Union Approved Apprenticeship	6

**Credits 15**

### Fourth Semester

UAS 230	Construction Supervision V: Scheduling and Project Management	3
Union Approved Apprenticeship		9
Open Elective(s) to reach a minimum of 60 total credits.		3

**Credits 15**

**Total Credits 60**

1 *UA students may use APP 113 Math for Pipe Trades (3 credits)*

2 *UA students may use UAT 210 Public Speaking (1.5 credits) and UAT 213 Planning, Teaching and Assessing Effective Lessons - Advanced (1.5 credits)*

3 *UA students may use SCI 102 Applied Science (3 credits)*

## Architectural and Ornamental Ironworker (AOIW)

Code	Title	Credits
IWA 120	Introduction to Ironwork	3
IWA 122	Ironworker - General Rigging	2
IWA 131	Introduction to Metal Building	2
IWA 161	Introduction to Architectural and Ornamental Ironwork	2
IWA 201	Introduction to Welding	3
IWA 224	Labor and Trade History	1
IWA 265	Advanced Architectural and Ornamental Ironwork	6
<b>Total Credits</b>		<b>19</b>

## Brick and Block Laying Apprenticeship (BBLA)

Code	Title	Credits
BAC 100	Labor and Trade Union History and Impacts	1
BAC 101	Safety Practices	2
BAC 102	Professional Skills Development	2
BAC 110	Introduction to Brick and Blocklaying Apprenticeship	3
BAC 111	Introduction to Masonry Construction	2
BAC 112	Mortar Manipulation	3
BAC 210	Introduction to Blocklaying	3
BAC 211	Introduction to Bricklaying	3
BAC 212	Masonry Wall Construction	3
BAC 213	Masonry Construction Techniques and Restoration	3
<b>Total Credits</b>		<b>25</b>

## HVAC Specialty (HVTC)

Code	Title	Credits
UAE 140	Introduction to HVACR Service Technician Practices	3
UAE 142	Soldering and Brazing	3

UAE 144	Refrigeration	2
UAE 146	Air Conditioning	2
UAE 148	Electrical Controls	2
UAE 150	DC Electronics	2
UAE 152	Advanced Electrical Controls and Pneumatic Controls	3
UAE 154	Advanced Air Conditioning and Refrigeration	3
UAE 156	Air and Water Balancing and Motor Alignment	3
UAE 158	Advanced HVACR Practices	3
<b>Total Credits</b>		<b>26</b>

### Journeyman Ironworker (JMIW)

Code	Title	Credits
IWA 120	Introduction to Ironwork	3
IWA 122	Ironworker - General Rigging	2
IWA 131	Introduction to Metal Building	2
IWA 141	Introduction to Reinforcing Ironwork	3
IWA 155	Rigging/Machinery Mover II	3
IWA 161	Introduction to Architectural and Ornamental Ironwork	2
IWA 172	Introduction to Structural Features	4
IWA 201	Introduction to Welding	3
IWA 224	Labor and Trade History	1
IWA 272	Advanced Structural Features	3
<b>Total Credits</b>		<b>26</b>

### Metal Building Erector (MTBE)

Code	Title	Credits
IWA 120	Introduction to Ironwork	3
IWA 122	Ironworker - General Rigging	2
IWA 131	Introduction to Metal Building	2
IWA 161	Introduction to Architectural and Ornamental Ironwork	2
IWA 172	Introduction to Structural Features	4
IWA 201	Introduction to Welding	3
IWA 224	Labor and Trade History	1
IWA 235	Advanced Metal Building	2
<b>Total Credits</b>		<b>19</b>

### Pipefitter Specialty (PIPE)

Code	Title	Credits
UAF 102	Introduction to Arc Welding, Soldering, and Brazing	3
UAF 120	Introduction to Pipefitter Practices	3
UAF 122	Drawing Interpretation and Plan Reading	2
UAF 124	Oxy Fuel Cutting and Shielded Arc Welding	2
UAF 126	Hydronic Heating and Steam Systems	2
UAF 128	Refrigeration and Electrical Controls	2
UAF 130	Advanced SMAW Welding	3
UAF 132	Advanced Pipefitter Topics	3
UAF 134	Controls and Instrumentation	3

UAF 136	GTAW Welding	3
<b>Total Credits</b>		<b>26</b>

### Plumber Specialty (PLUM)

Code	Title	Credits
UAP 100	Introduction to Plumbing Practices	3
UAP 102	Introduction to Arc Welding, Soldering and Brazing	3
UAP 104	Drawing Interpretation and Plan Reading	2
UAP 106	Oxy Fuel Cutting and Shielded Arc Welding	2
UAP 108	Water Supply and Drainage	2
UAP 110	Customer Service Techniques	2
UAP 112	Plumbing Fixtures and Appliances	3
UAP 114	Plumbing Codes and Regulations	3
UAP 116	Medical Gas and Backflow Prevention Techniques	3
UAP 118	Advanced Plumbing Practices	3
<b>Total Credits</b>		<b>26</b>

### Reinforcing Ironworker (REIW)

Code	Title	Credits
IWA 120	Introduction to Ironwork	3
IWA 122	Ironworker - General Rigging	2
IWA 141	Introduction to Reinforcing Ironwork	3
IWA 201	Introduction to Welding	3
IWA 224	Labor and Trade History	1
IWA 241	Advanced Reinforcing Ironwork	7
<b>Total Credits</b>		<b>19</b>

### Rigger/Machinery Mover (RGMM)

Code	Title	Credits
IWA 120	Introduction to Ironwork	3
IWA 122	Ironworker - General Rigging	2
IWA 151	Rigging/Machinery Mover I	3
IWA 155	Rigging/Machinery Mover II	3
IWA 191	Reinforced Iron and Structures for Rigging	4
IWA 201	Introduction to Welding	3
IWA 224	Labor and Trade History	1
<b>Total Credits</b>		<b>19</b>

### Sprinkler Fitter Specialty (SPRF)

Code	Title	Credits
UAR 160	Introduction to Sprinkler Fitter Practices	3
UAR 162	Basic Drawing and Introduction to Automatic Sprinklers	3
UAR 164	Reading Automatic Sprinkler Piping Drawings	2
UAR 166	Installation of Sprinkler Systems	2
UAR 168	Architectural Working Drawings and Blueprint Reading for Sprinkler Fitters	2
UAR 170	Sprinkler Water Supply and The Automatic Sprinkler	2
UAR 172	Types of Fire Protection Systems and Alarms	3

UAR 174	Special Application Sprinkler Systems and Hydraulics	3
UAR 176	Human Relations	3
UAR 178	Technical Writing	3
<b>Total Credits</b>		<b>26</b>

### **Tile Mechanics (TILM)**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
BAC 100	Labor and Trade Union History and Impacts	1
BAC 101	Safety Practices	2
BAC 102	Professional Skills Development	2
BAC 120	Introduction to Tile Mechanic Apprenticeship	1
BAC 121	Introduction to Tile Mechanic	3
BAC 122	Basic Tile Setting	4
BAC 220	Wall Tile Installation	3
BAC 221	Floor and Stair Tile Installation	3
BAC 222	Applications for Tile Installation	3
BAC 223	Tile Layout, Techniques and Restoration	3
<b>Total Credits</b>		<b>25</b>