

WCC General Education Requirements
Effective Fall 2018

Associate degree programs were updated to meet the revised WCC general education requirements below.

Course Distribution Requirements

Associate degree students must complete courses from each of six General Education content areas. The requirements vary, depending on which degree is being earned. The number of general education credit hours required for each degree is as follows.

	AA	AS	AAS
Writing/Composition	3-4 credits	3-4 credits	3-4 credits
2nd Writing/Composition or Communication	3-4 credits	3 credits	3 credits
Mathematics	3-4 credits	3-4 credits	3-4 credits
Natural Sciences ¹	7-8 credits	7-8 credits	3-4 credits
Social & Behavioral Science ²	6 credits	6 credits	3 credits
Arts and Humanities ³	6 credits	6 credits	3 credits
General Education Electives to reach 30 credits	0-2 credits	0-2 credits	N/A
Minimum	30 credits	30 credits	18 credits

¹ Two courses in Natural Science including one with laboratory experience (from two disciplines)

² From two disciplines

³ From two disciplines

Program Information Report

School of Apprenticeship and Occupational Studies

Find a trade-related associate's degree program that builds on your professional abilities while giving you the knowledge and skills needed to move into organizational leadership.

Washnetaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

The next level, an Associate in Applied Science, is available for some programs.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate and General Education requirements.

Apprenticeship and Occupational Studies

These individualized programs utilize earned certificates, apprenticeships and trade-related credits tailored to the needs of the student. The Occupational Studies degree offers the flexibility to combine certain certificate programs with general education courses and electives to develop an individualized Associate in Applied Science degree.

Journeyman Industrial (APJPIM)

Associate in Applied Science Degree

Program Effective Term: Fall 2018

Program is also available online

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. Students can earn an Associate in Applied Science Degree in Journeyman Industrial by completing the requirements listed.

Articulation:

Eastern Michigan University, BS degree.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <http://www.wccnet.edu/curriculum/articulation/levelone/colleges/>.

Major/Area Requirements		(42 credits)
	Complete the Apprenticeship Completion Certificate (CTAC), or journeyman-approved coursework in a technical or trade-related area	24-36
Elective	Take additional credits as needed if total program credits are below 60.	18
General Education Requirements		(18 credits)
Writing	Elective(s)	3
Math	Elective(s)*	3
	Speech/Comp. Elective(s) 2**	3
Nat. Sci.	Elective(s)***	3
Soc. Sci.	Elective(s)	3
Arts/Human.	Elective(s)	3
Minimum Credits Required for the Program:		60

Notes:

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

**UA students may use UAT 210 Public Speaking (1.5 credits) and UAT 213 Planning and Presenting Lessons (1.5 credits).

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

Done 1/24/18
NW

WASHTENAW COMMUNITY COLLEGE
GENERAL EDUCATION REVISION AAS PROGRAM CHANGE FORM 2018-2019

Program Code: APJPM	Program Name: Journeyman Industrial
Division Code: ATP	Department: JA

This form is to be used only for General Education Revision Program Changes for Associate in Applied Science (AAS) programs. Any other program changes should be submitted separately using a standard Program Change Form.

Directions:


- Review each general education area under **Requested Changes** below and respond as needed.
- Attach the semester program layout showing the current program listing from the WCC catalog.
 - Indicate any changes to be made on the semester layout.
 - Draw a line through any courses that should be removed on the semester layout.
 - Write in any courses that need to be added on the semester layout.
- Submit this form and semester program layout to the Office of Curriculum and Assessment (SC 257).

Current General Education Requirements AAS		Revised General Education Requirements 2018-2019 AAS	
Writing	3-4 credits	English Composition	3 - 4 credits
Speech	3 credits	2 nd Course in English Composition or one course in Communication	3 - 4 credits
Mathematics	3 - 4 credits	Mathematics	3 - 4 credits
Natural Sciences	3 - 4 credits	Natural Sciences	3 - 5 credits
Social & Behavioral Sciences	3 credits	Social & Behavioral Sciences	3 credits
Arts & Humanities	3 credits	Arts & Humanities from	3 credits
Critical Thinking	0 credits	Total	18 credits
Computer & Information Literacy	3 credits		
Total	21-24 credits		

Please review each General Education Area in the chart below, and record the needed changes in the chart and on the attached semester program layout.

REQUESTED CHANGES	
General Education Area	
English Composition – The requirement for one writing/English composition course remains the same. No changes will be made unless specifically requested below. (Use Writing Elective or ENG 111)	
Optional Change:	
2nd Course in English Composition or one course in Communication WCC previously required both a second composition/writing course and a communication course. Your options are:	
<ol style="list-style-type: none"> Allow students to select any course that meets composition/writing or communication (<i>recommended</i>). Require students to take a specific composition course (identify course below and on semester layout). Require students to take a specific communication course (identify course below and on semester layout). 	
Requested Change:	

	Mathematics – The requirement for one mathematics course remains the same. However, the courses that meet the MTA requirement have changed slightly. See the course listing for details
	Optional Change:
	Natural Sciences - The requirement for one natural science course remains the same. No changes will be made unless specifically requested below.
	Optional Change:
	Social & Behavioral Sciences – The requirement for one social and behavioral science course remains the same. No changes will be made unless specifically requested below.
	Optional Change:
	Arts & Humanities – The requirement for one arts and humanities course remains the same. No changes will be made unless specifically requested below. (Note: A department can designate a COM course as a requirement here. The same course cannot be counted in two areas.)
	Optional Change:
	Computer and Information Literacy The requirement for computer and information literacy has been removed. Your options are: <ol style="list-style-type: none"> 1. Continue to require a specific computer course. If a specific course is required in your program, we will leave it there. If you previously used "Computer and Information Literacy Course," you will need to specify either a specific course or a list of courses from which to choose. 2. Remove the computer and information literacy course if the program will still meet the minimum of 60 credit hours. 3. Remove the computer and information literacy course and replace the course with elective or other credits as needed to meet the minimum of 60 credit hours.
	Required Change:

Reviewer	Print Name	Signature	Date
Initiator			
Department Chair			
Division Dean/ Administrator			
Vice President for Instruction	Kimberly Hurns		1/9/18

Office use only

Entered in: Banner C&A Database Log File
1/24/18 1/24/18

Program Information Report

School of Apprenticeship and Occupational Studies

Find a trade-related associate's degree program that builds on your professional abilities while giving you the knowledge and skills needed to move into organizational leadership.

Washtenaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

The next level, an Associate in Applied Science, is available for some programs.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate and General Education requirements.

Apprenticeship and Occupational Studies

These individualized programs utilize earned certificates, apprenticeships and trade-related credits tailored to the needs of the student. The Occupational Studies degree offers the flexibility to combine certain certificate programs with general education courses and electives to develop an individualized Associate in Applied Science degree.

Journeyman Industrial (APJPIM)

Associate in Applied Science Degree

Program Effective Term: Fall 2015

Program is also available online

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. Students can earn an Associate in Applied Science Degree in Journeyman Industrial by completing the requirements listed.

Articulation:

Eastern Michigan University, BS degree.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <http://www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges>.

	Complete the Apprenticeship Completion Certificate (CTAC), or journeyman-approved coursework in a technical or trade-related area	24-36
Elective	Take additional credits as needed if total program credits are below 60.	15

General Education Requirements

Writing	Elective(s)	3-4
Math	Elective(s)*	3-4
Speech	Elective(s)**	3
Nat. Sci.	Elective(s)***	3-4
Soc. Sci.	Elective(s)	3
Arts/Human.	Elective(s)	3
Computer Lit.	Elective(s)	3

Minimum Credits Required for the Program: 60

Notes:

- *UA students may use APP 113 Math for Pipe Trades (3 credits).
- **UA students may use UAT 210 Public Speaking (1.5 credits) and UAT 213 Planning and Presenting Lessons (1.5 credits).
- ***UA students may use SCI 102 Applied Science (3 credits).

PROGRAM CHANGE FORM

Program Code:

Program Name:

APJPIM

^{man}
Journey person Industrial

Effective Term:

200509

Directions:

1. Attach the current program listing from the WCC catalog and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using a Master Syllabus form, but should be submitted at the same time as the program change form.

Requested Changes:

- | | |
|---|--|
| <input type="checkbox"/> Remove _____ course(s) | <input checked="" type="checkbox"/> Advisors |
| <input type="checkbox"/> Add _____ course(s) | <input type="checkbox"/> Articulation information |
| <input type="checkbox"/> Total program credits: Current credits _____ After changes _____ | <input type="checkbox"/> Program admission requirements |
| <input type="checkbox"/> Program Title (title was _____) | <input type="checkbox"/> Continuing eligibility requirements |
| <input checked="" type="checkbox"/> Description | <input type="checkbox"/> Program outcomes |
| <input type="checkbox"/> Type of award | Other _____ |

Show all changes on the attached page from the catalog.

Rationale for proposed changes:

Requirement #1 refers to an inactive program. Replacing with a new program requirement.
The _____ associates degree will not only cover industrial apprentices, but also apprentices in non-industrial trades

Financial/staffing/equipment/space implications:

n/a

List departments that have been consulted regarding their use of this program.

United Association

Signatures:

Reviewer	Print Name	Signature	Date
Program Change Initiator	Laurie Maroney	<i>Laurie Maroney</i>	3/17/05
Department Chair	Linda Hammond	<i>Linda Hammond</i>	3/17/05
Division Dean/Administrator	Cathie Dries	<i>Cathie Dries</i>	3-22-05
Vice President of Instruction	Roger Palay	<i>Roger M. Palay</i>	4/15/05

Please submit completed form to the Office of Curriculum and Assessment.

Access Program File 4/20

Log 4/20 *JM*

Copied and Returned _____

Occupational and Related Studies

Journeyman Industrial (APJPIM) Associate in Applied Science Degree

Program Effective Term: Fall 2005

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. Students can earn an Associate in Applied Science Degree in Journeyman Industrial by completing the requirements listed.

Continuing Eligibility Requirements:

Students must demonstrate basic computer literacy skills by successfully passing the Computer and Information Literacy Test. The test may be taken at any point during the program, but must be completed before graduating.

General Education Requirements (18 credits)

Writing	Elective(s)	3-4
Speech	Elective(s)	3
Math	Elective(s)	3-4
Nat. Sci.	Elective(s)	3-4
Soc. Sci.	Elective(s)	3
Arts/Human.	Elective(s)	3

Major/Area Requirements (42 credits)

Complete the Apprenticeship Completion Certificate (CTAC), or journeyman-approved coursework in a technical or trade-related area	24-36
Take additional credits as needed if total program credit are below 60.	18

Minimum Credits Required for the Program 60



PROGRAM CHANGE FORM

Program Code: Program Name:
CFJPIC Journeyperson Industrial Certificate

Effective Term:
Fall 2003

Directions: 1.) Attach the current program listing from the WCC catalog and indicate any changes that you would like to make.
2.) Draw lines through anything that should be deleted and write in additions. Extensive narrative changes may be included on a separate sheet.
3.) Check the boxes below for each type of change being proposed. If you are making changes to courses or proposing new courses as part of this proposal, they must be approved separately using a Course-Syllabus Approval Form (CSAF). Courses that are being discontinued also should be submitted on CSAF forms.

1. Requested Changes:

- Remove Course(s)
Add Course(s)
Total Credits: Current Credits 30 After Changes 24-30
Change Course Semester Sequencing
Change Title (title was)
Description
Advisors
Articulation Information
Program Admission Requirements
Continuing Eligibility Requirements
Footnotes
Other

Show all changes on the attached program sheet.

2. Rationale for Proposed Changes:

Improve student completion rate.

3. Financial/Staffing/Equipment/Space Implications:

None

4. Has the department consulted with all departments that may be impacted? Yes X No NA

Yes X No NA

Comments: Continuing Education/Community Services

**REMINDER: Please include the current program sheet with all changes listed.

Signatures:

Table with 4 columns: Reviewer, Print Name, Signature, Date. Rows include Program Change Initiator (Granville Lee), Department Chair (Cathie Dries), Division Dean/Administrator (Granville Lee), and Executive Vice President, Instruction (Roger Palay).

*Please submit completed form to the Office of Curriculum and Articulation Services.

Journeyman Industrial (CFJPIC)

Certificate



This program gives skilled tradespersons who are sponsored by qualified firms the opportunity to apply trade-related instruction credits from their apprenticeship programs toward a WCC Certificate.

**Health and Applied Technologies Division
Technical Education Department**

Advisor: ~~Les Pierce~~ *Cathy DRIES, RALPH HARGRAVE*

Program Admission Requirements:

Students must be sponsored by a qualified firm to enroll in this program.

Requirements: *24-30 Coursework in a*

1. Complete ~~30~~ *30* credits of Trade-Related Instruction coursework (TRIP)*, *trade related field* 30

Minimum Credits Required for the Program: *24-30*

Footnotes:

*See a program advisor to determine the courses for this certificate

Residential Construction Technology (CTRCT)

Certificate



This program prepares you for entry-level jobs in a broad range of careers in the construction industry, where you'll need an understanding of building systems, the safe use of tools and equipment, materials, and the vocabulary of the field. This program also gives you the potential for being selected for one of the many apprentice classifications associated with the construction field.

**Health and Applied Technologies Division
Technical Education Department**

Advisor: Les Pierce

Major/Area Requirements

(19 Credits)

CON 104	Construction I	3
CON 105	Construction II	5
CON 204	Construction III	4
CON 205	Construction IV	4
Choose:	CON 174 Co-op Education or	
	CON 199 On-the-Job Training	3

Minimum Credits Required for the Program: **19**

Journeyman Industrial (APJIM)

Associate in Applied Science Degree



Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. You can earn an Associate in Applied Science Degree in Journeyman Industrial by completing the requirements listed below.

**Health and Applied Technologies Division
Technical Education Department**

Advisor: Les Pierce

Continuing Eligibility Requirements:

Students must demonstrate basic computer literacy skills by successfully passing the Computer and Information Literacy Test. The test may be taken at any point during the program, but must be completed before graduating.

Requirements

1. Complete the Journeyman Industrial Certificate (CFJPIC)30
2. Complete 12 credit hours as free electives.*12
3. Complete one Group I course from each of the six General Education Areas.18-21

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

Footnotes:

*See your advisor to select appropriate electives

Journeyman Industrial (CFJPIC)
Certificate

'UNDER CONSTRUCTION'

Program Effective Term: Fall 2003

This program gives skilled tradespersons who are sponsored by qualified firms the opportunity to apply trade-related instruction credits from their apprenticeship programs toward a WCC Certificate.

~~Health and Applied Technologies Division~~ ALL DIVISIONS

~~Technical Education Department~~

Advisor: ~~Lee Pierce~~ Cathie DRIES, Ralph HARGRAVE

Program Admission Requirements:

Students must be sponsored by a qualified firm to enroll in this program.

Requirements

24-30

24-30
(20 credits)

1. Complete 20 credits of Trade-Related Instruction

20-24-30

Instruction related to their trade.

Minimum Credits Required for the Program:

20-24-30

Footnotes:

See a program advisor to determine the courses for this certificate and the associate degree.

Journeyman Industrial

*Students can earn an associate degree in Auto Mechanics by following the Occupational Studies Program.

~~courses are recommended for completing the program.~~

Washtenaw Community College Program Change Request Form

Program Code: JPI

Program Title: Journeyperson Industrial

Effective Bulletin Year: 98-99

1. Course Related Program Changes:

Course	Course Title	Restricted Elective Group (if applicable)	Credit	Sem	Change(s)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)

2. Total Credit Hours for Program:
 Before Proposed Changes: _____ After Proposed Changes: _____

3. Non-Course Related Program Changes: (description, advisors, admission criteria, title, etc.)
 Program Code: from JPI to JMI, description (change all references to *journeyperson* to *journeyman*. See attached.)

4. Rationale for Proposed Changes:
 The term journeyman is a term universally accepted to indicate a gender-neutral level of competence.

5. Financial/Staffing/Equipment/Space Implications:

6. Has the department consulted with all affected instructional departments? Yes ___ No ___ NA ___

7. Signatures:

Reviewer	Print Name	Signature	Date
Program Change Initiator:	Patricia Stegall	<i>Patricia Stegall</i>	6-8-98
Department Chair:		<i>RR Burton</i>	6/8/98
Division Dean:			
VP, Instruction/Student Services:			

If significant changes are proposed, please attach a copy of the most recent program listing from the College Bulletin with changes marked on it.
 If courses are being changed as part of this proposal, course changes must be approved using the Course/Syllabus Approval Form.

Data File 7/20/98 Curriculum File _____ Catalog _____
Curriculum Services: C:/Documents/PROGRAMS/Programchange.doc
 Document Code: JPIPCAF.doc Copies: Department Chair, Dean, Curriculum Office, Educational Services

*Not approved for change. suggest a footnote, 6/11/98
 rewritten to denote equivalency. VPISS*

Washtenaw Community College Program Change Request Form

Program Code: JPI

Program Title: Journeyperson Industrial

Year: 1998

1. Course Related Program Changes:

Course	Course Title	Restricted Elective Group (if applicable)	Credit	Sem	Change(s)
PLS 108	Government and Society		3	3	Remove <u>X</u> Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
PLS 112	Introduction to American Government		3	3	Remove ___ Add <u>X</u> Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)
					Remove ___ Add ___ Change Title ___ ___ Change Credit (was: ___) ___ Shift in Sequence (was: ___)

2. Total Credit Hours for Program:

Before Proposed Changes: _____

After Proposed Changes: _____

3. Non-Course Related Program Changes: (description, advisors, admission criteria, title, etc)

4. Rationale for Proposed Changes:

Social Science Department's planned termination of PLS 108.

5. Financial/Staffing/Equipment/Space Implications:

None




6. Has the department consulted with all affected instructional departments?

Yes X

No ___

NA ___

7. Signatures:

Reviewer	Print Name	Signature	Date
Program Change Initiator:			
Department Chair:	Les Pierce		
Division Dean:			4/27/98
VP, Instruction/Student Services:			4/27/98

If significant changes are proposed, please attach a copy of the most recent program listing from the College Bulletin with changes marked on it. If courses are being changed as part of this proposal, course changes must be approved using the Course/Syllabus Approval Form.

Data File 4-29-98

Curriculum File 4-29-98

Catalog 5/1/98

Technical Training

Trade Related Instruction Apprentice and Employee Training

Apprenticeship training is on-the-job training with related instruction designed to ensure that each apprentice not only masters skilled tasks but does so with confidence and precision. Today, apprentices are trained in more than 300 occupations. Apprenticeships offer an alternative route to training and employment. They differ from other training methods in several ways. First, when individuals enter an apprenticeship training program they are hired in jobs for which vacancies exist and are paid a percentage of the journeyperson's (a person who has completed apprenticeship training) rate, usually starting at about 50% and increasing as additional skills are mastered. Second, the apprentice is under the supervision of an individual with demonstrated ability in the tasks to be learned. Third, the formalized on-the-job training is reinforced with appropriate classroom instruction. Fourth, upward mobility is built into the concept.

Manufacturing and Construction

The main purpose of the Trade Related Instruction Program is to provide manufacturing and construction firms with the opportunity to participate in training programs which assist their employees in becoming more skilled.

Apprentice Training and Employee Training

Required related instruction is provided for most apprenticeable trades. The College's Director of Technical Training works directly with the apprentice and the sponsoring firm to meet these requirements. The related instruction program has been approved by the Bureau of Apprenticeship and Training of the U.S. Department of Labor. Sponsoring firms are invited to contact the Director concerning individual employees who wish to participate.

Pre-Apprenticeship Training

Individuals who wish to enter an apprenticeship program, but who have not passed the required entrance examination, are invited to contact the College counseling staff or the Director of Technical Training. An individual pre-apprenticeship curriculum can be arranged which helps prepare for most industrial apprenticeship entrance examinations. Placement cannot be guaranteed in an apprenticeship program. Placement is at the mutual discretion of employers, employees and organizations representing the skill trades involved.

Journeyman Industrial

Associate in Technical Studies Degree Program: Code JPI

This Associate Degree can be awarded to skilled tradespersons upon earning 60 hours or more including the courses listed below. All credits earned in Trade Related Instruction may be applied to the Journeyman Industrial Degree. Credit earned at other institutions offering trade related subjects are evaluated and may be applicable.

CIS 100	Intro to Computers.....	3
ENG 111	Composition I.....	4
MTH	MTH 151, 160, 169 or 179.....	4
PLS 108	Government and Society.....	3
SCI 100	Intro to Natural Sciences.....	1
Elective*	Restricted Humanities Elective.....	1-3
Electives*	Trade Related Instruction Electives.....	44

ADD PLS 112
Total credit hours for program: 60-62

* Choose from list of Humanities courses that meet elements 13 and 14 on page 64.

** See Director of Technical Training before choosing.

Refrigeration and Air Conditioning

Associate in Technical Studies Degree Program: Code RAC

This is primarily a trade-related instruction program. Its purpose is to upgrade persons currently employed in this industry; however, students who are not currently employed in the industry are welcome. Courses are offered in the evening only. All training materials are provided by the Refrigeration Service Engineer's Society. Students should expect to pay approximately \$125 per term in addition to tuition. RSES is a non-profit international educational organization whose sole purpose is the education and training of its members, assisting them in keeping their skills up to date; thereby offering better service to the public. The program is guided by an Advisory Committee consisting of journeyman and contractors and is offered in cooperation with the local chapter of the Refrigeration Service Engineers Society (RSES). Consent of the program advisor is required for registration.

Course Number	Course Title	Credit Hours
CIS 100	Intro to Computers.....	3
ENG	Restricted ENG Requirement (100 or 111).....	4
HTG 111	Heating Fundamentals.....	3
HTG 122	Heating Systems.....	3
HTG 213	Heating Controls.....	3
MTH	Restricted Math Elective.....	3-4
PLS 108	Government and Society.....	3
RAC 111	Refrigeration I.....	5
RAC 122	Refrigeration II.....	5
RAC 123	Systems Lab I.....	5
RAC 124	Basic Controls.....	5
RAC 213	Air Conditioning.....	5
RAC 214	Control Systems.....	5
RAC 215	Troubleshooting Controls.....	3
RAC 216	Systems Lab III.....	5
SCI 100	Intro to Natural Sciences.....	1
WAF 104	Soldering and Brazing.....	2
Elective*	Restricted Humanities Elective.....	1-3

Total credit hours for program: 64-67

* Choose from list of Humanities courses that meet elements 13 and 14 on page 64.

Journeyman Industrial

Associate in Technical Studies Degree Program: Code JPI

This Associate Degree can be awarded to skilled tradespersons upon earning 60 hours or more including the courses listed below. All credits earned in Trade Related Instruction may be applied to the Journeyman Industrial Degree. Credit earned at other institutions offering trade related subjects are evaluated and may be applicable.

CIS 100	Intro to Computers.....	3
ENG 111	Composition I.....	4
MTH	MTH 151, 160, 169 or 179.....	4
PLS 112	Introduction to American Government.....	3
SCI 100	Intro to Natural Sciences	1
Elective*	Restricted Humanities Elective	1-3
Electives*	Trade Related Instruction Electives	44

Total credit hours for program: 60-62

* Choose from list of Humanities courses that meet elements 13 and 14 on page 64.

** See Director of Technical Training before choosing.

