

Apprenticeship Studies

Bricklayers Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **BRCKTD-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Bricklayer with the Bricklayers Union. **This is a restricted entry program. Students MUST be indentured in the Bricklayers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable bricklayer tools.
- Comprehend and utilize formulas used in the calculations of all phases of brick laying.
- Demonstrate the ability to troubleshoot and repair any problems that arise with brick laying installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (33 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER		CR	SEMESTER	
<u>MATHEMATICS</u> MATH 116	3	_____	BRL 101B	Bricklayers' Apprentice I	4	_____
<u>ENGLISH COMPOSITION</u> ENG 101 or 102 or 107	6	_____	BRL 102B	Bricklayers' Apprentice IB	4	_____
<u>COMMUNICATIONS</u> COM 101 or 215; or ENG 101	6	_____	BRL 105B	OSHA/First Aid/CPR for Bricklayers	3	_____
<u>HUMAN RELATIONS</u> ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____	BRL 151B	Bricklayers' Apprentice II	4	_____
<u>NATURAL SCIENCE</u> AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEO 100; PHYS 110	8	_____	BRL 152B	Bricklayers' Apprentice IIB	4	_____
<u>SOCIAL SCIENCE/HUMANITIES</u> ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____	BRL 201B	Bricklayers' Apprentice III	4	_____
<u>U.S. AND NEVADA CONSTITUTIONS</u> PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____	BRL 202B	Bricklayers' Apprentice IIIB	4	_____

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any BRL journeyman course offered for credit may be substituted for any of the above BRL apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Bricklayers' Trade Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Bricklayers Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **BRCKTD-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Bricklayer with the Bricklayers Union. **This is a restricted entry program. Students MUST be indentured in the Bricklayers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable brick laying tools.
- Comprehend and utilize formulas used in the calculations of all phases of brick laying.
- Comprehend the ability to troubleshoot and repair any problems that arise with brick laying installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
BRL 101B Bricklayers' Apprentice I	4	_____
BRL 102B Bricklayers' Apprentice IB	4	_____
BRL 105B OSHA/First Aid/CPR for Bricklayers	3	_____
BRL 151B Bricklayers' Apprentice II	4	_____
BRL 152B Bricklayers' Apprentice IIB	4	_____
BRL 201B Bricklayers' Apprentice III	4	_____
BRL 202B Bricklayers' Apprentice IIIB	4	_____

Computation included in BRL 101B, 102B, 151B, 152B, 201B, 202B
 Human Relations included in BRL 101B, 102B

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any BRL journeyman course offered for credit may be substituted for any of the above BRL apprentice courses. Please contact the program coordinator for details. Special consideration will be given students who complete the Bricklayers' Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies Carpentry Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **CART-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Carpenter with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable carpentry tools.
- Comprehend and utilize formulas used in the calculations of all phases of carpentry work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with carpentry installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	6-7	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)

	CR	SEMESTER
CORE REQUIREMENTS		
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 105B Basic Wall Framing	1.5	_____
CPT 107B Print Reading	2	_____
CPT 109B Basic Roof Framing	1.5	_____
CPT 111B Wall Forming	1.5	_____
CPT 113B Doors and Door Frames	1.5	_____
CPT 115B Transit Level/Laser	2	_____
CPT 117B Foundations and Flat Work	1.5	_____
CPT 119B Bridge Construction	1.5	_____
CPT 121B Stair and Ramp Forming	1.5	_____
CPT 123B Beam and Deck Forming	1.5	_____
CPT 125B Cabinet Millwork and Assembly	1.5	_____
CPT 127B Commercial Floor Framing	1.5	_____
CPT 129B Advanced Print Reading	2	_____
CPT 131B Cabinet Installation	2	_____
CHOOSE ELECTIVES (8 credits)		_____
CPT 133B Moldings and Trim	1.5	_____
CPT 135B Tilt-Up Panel Construction	1.5	_____
CPT 137B Rigging	2	_____
CPT 141B Basic Metal Framing	1.5	_____
CPT 143B Door and Door Hardware	1.5	_____
CPT 145B Scaffold Erector Qualification	2	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any CPT journeyman course offered for credit may be substituted for any of the above CPT apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Carpentry Trade Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Carpentry Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **CART-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Carpenter with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable carpentry tools.
- Comprehend and utilize formulas used in the calculations of all phases of carpentry work.
- Comprehend the ability to troubleshoot and repair any problems that arise with carpentry installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 105B Basic Wall Framing	1.5	_____
CPT 107B Print Reading	2	_____
CPT 109B Basic Roof Framing	1.5	_____
CPT 111B Wall Forming	1.5	_____
CPT 113B Doors and Door Frames	1.5	_____
CPT 115B Transit Level/Laser	2	_____
CPT 117B Foundations and Flatwork	1.5	_____
CPT 119B Bridge Construction	1.5	_____
CPT 121B Stair and Ramp Forming	1.5	_____
CPT 123B Beam and Deck Forming	1.5	_____
CPT 125B Cabinet Millwork and Assembly	1.5	_____
CPT 127B Commercial Floor Framing	1.5	_____
CPT 129B Advanced Print Reading	2	_____
CPT 131B Cabinet Installation	2	_____

Computation included in CPT 105B, 109B, 117B, 121B

Human Relations included in CPT 102B, 104B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any CPT journeyman course offered for credit may be substituted for any of the above CPT apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Carpentry Trades Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Cement Mason Emphasis

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Cement Mason with the Cement Masons Union. **This is a restricted entry program. Students MUST be indentured in the Cement Masons Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable masonry tools.
- Comprehend and utilize formulas used in the calculations of all phases of masonry work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with cement masonry installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (30 CREDITS)

	CR	SEMESTER
<u>MATHEMATICS</u> MATH 116	3	_____
<u>ENGLISH COMPOSITION</u> ENG 101 or 102 or 107	3	_____
<u>COMMUNICATIONS</u> COM 101, 215; ENG 101	6	_____
<u>HUMAN RELATIONS</u> MGT 100B or PSY 101 or SOC 101	3	_____
<u>NATURAL SCIENCE</u> EGG 131 and 132	8	_____
<u>SOCIAL SCIENCE/HUMANITIES</u> ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
<u>U.S. AND NEVADA CONSTITUTIONS</u> PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (30 CREDITS)

	CR	SEMESTER
CMA 111B Cement Mason Apprentice I	4	_____
CMA 112B Cement Mason Apprentice IB	3	_____
CMA 141B Cement Mason Apprentice II	3	_____
CMA 142B Cement Mason Apprentice IIB	4	_____
CMA 201B Cement Mason Apprentice III	3	_____
CMA 202B Cement Mason Apprentice IIIB	4	_____
CMA 251B Cement Mason Apprentice IV	3	_____
CMA 252B Cement Mason Apprentice IVB	4	_____
PLCM 270B OSHA 30	2	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any CMA journeyman course offered for credit may be substituted for any of the above CMA apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Cement Mason Apprentice Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Cement Mason Emphasis

REQUIRED CREDITS: **31**

DEGREE CODE: **CEMENT-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Cement Mason with the Cement Masons Union. **This is a restricted entry program. Students MUST be indentured in the Cement Masons Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable masonry tools.
- Comprehend and utilize formulas used in the calculations of all phases of masonry work.
- Comprehend the ability to troubleshoot and repair any problems that arise with cement masonry installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (28 CREDITS)

	CR	SEMESTER
CMA 111B Cement Mason Apprentice I	4	_____
CMA 112B Cement Mason Apprentice IB	3	_____
CMA 141B Cement Mason Apprentice II	3	_____
CMA 142B Cement Mason Apprentice IIB	4	_____
CMA 201B Cement Mason Apprentice III	3	_____
CMA 202B Cement Mason Apprentice IIIB	4	_____
CMA 251B Cement Mason Apprentice IV	3	_____
CMA 252B Cement Mason Apprentice IVB	4	_____

Computation included in CMA 141B, 142B
Human Relations included in CMA 111B, 112B, 142B, 201B, 202B, 251B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any CMA journeyman course offered for credit may be substituted for any of the above CMA apprentice courses. Please contact the program coordinator for details.
Special consideration will be given students who complete the Cement Mason Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Drywall Applicator Emphasis

REQUIRED CREDITS: 60

DEGREE CODE: DWA-AAS

PROGRAM DESCRIPTION

This degree prepares the students for employment as a Journeyman Drywall Applicator with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable drywall applicator tools.
- Comprehend and utilize formulas used in the calculations of all phases of drywall applicator work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in drywall applicator work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	6-7	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)

	CR	SEMESTER
CORE REQUIREMENTS (27 credits)		
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 113B Door and Door Frames	1.5	_____
CPT 129B Advanced Print Reading	2	_____
DWA 105B Basic Metal Framing	1.5	_____
DWA 109B Basic Lathing	1.5	_____
DWA 111B Drywall Application	1.5	_____
DWA 113B Drywall Application/Finish Trims	1.5	_____
DWA 115B Framing Ceilings and Soffits	1.5	_____
DWA 117B Framing Curves and Arches	1.5	_____
DWA 119B Framing Suspended Ceilings	1.5	_____
DWA 121B Advanced Metal Framing	1.5	_____
DWA 125B Drywall/Acoustical Ceilings	1.5	_____
DWA 129B Free-Form Lathing	2	_____
DWA 131B Light Gage Welding - AWS	2	_____
CHOOSE ELECTIVES (8 credits)	8	_____
CPT 137B Rigging	2	_____
CPT 145B Scaffold Erector Qualification	2	_____
DWA 139B Light Gage Welding - AWS A	1.5	_____
DWA 141B Exterior Insulation Finish Systems - EIFS	1.5	_____
DWA 143B Door and Door Frames	1.5	_____
DWA 145B Transit Level/Laser	2	_____

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any DWA journeyman course offered for credit may be substituted for any of the above DWA apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Drywall Applicator Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Drywall Applicator Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **DWA-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Drywall Applicator with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable drywall applicator tools.
- Comprehend and utilize formulas used in the calculations of all phases of drywall applicator work.
- Comprehend the ability to troubleshoot and repair any problems that arise with drywall applicator installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 113B Doors and Door Frames	1.5	_____
CPT 129B Advanced Print Reading	2	_____
DWA 105B Basic Metal Framing	1.5	_____
DWA 109B Basic Lathing	1.5	_____
DWA 111B Drywall Application	1.5	_____
DWA 113B Drywall Installation/Finish Trims	1.5	_____
DWA 115B Framing Ceilings and Soffits	1.5	_____
DWA 117B Framing Curves and Arches	1.5	_____
DWA 119B Framing Suspended Ceilings	1.5	_____
DWA 121B Advanced Metal Framing	1.5	_____
DWA 125B Drywall/Acoustical Ceilings	1.5	_____
DWA 129B Free-Form Lathing	2	_____
DWA 131B Light Gage Welding - AWS	2	_____

Computation included in DWA 117B
 Human Relations included in CPT 102B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any DWA journeyman course offered for credit may be substituted for any of the above DWA apprentice courses. Please contact the program coordinator for details.
- Special consideration will be given students who complete the Drywall Applicator Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Environmental and Construction Laborer Emphasis

REQUIRED CREDITS: 60

DEGREE CODE: LBCONT-AAS

PROGRAM DESCRIPTION

This degree prepares the student for employment as a Journeyman Laborer with the Laborers Union. **This is a restricted entry program. The student MUST be indentured in the Laborers' Environmental and Construction Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable Laborer tools.
- Comprehend and utilize formulas used in the calculations of all phases of Laborer work.
- Demonstrate the ability to troubleshoot and repair any problems that may arise in Laborer work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	8	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 101; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTION PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS CONTINUED

	CR	SEMESTER
APP 107B Concrete Walls and Columns Work	2	_____
APP 127B Rigging and Signaling	2	_____
CHOOSE ELECTIVES (19 credits)		_____
APP 108B Body Mechanics and Fall Protection	1	_____
APP 120B Confined Space Awareness	2	_____
APP 121B Line and Grade	4	_____
APP 122B Oxyfuel Gas Cutting	4	_____
APP 123B Blueprint Reading for Laborers	3	_____
APP 128B Asphalt	2	_____
APP 130B Hazardous Waste Handling for Laborers	4	_____
APP 132B Radiation	1	_____
APP 134B Lead Abatement	2	_____
APP 136B Asbestos Abatement	2	_____
APP 137B Pipe Laying (Gravity Flow)	2	_____
APP 139B Pipe Laying (Pressurized)	2	_____
APP 140B Scaffold Building	2	_____
APP 142B Forklift Operations and Awareness	1	_____
APP 144B Operation of Motor Driven Power Equipment	1	_____
APP 146B Operation of Concrete Core Drilling Saw Cutting and Compaction Equipment	1	_____
APP 150B Mason Tending (Trowel)	2	_____
APP 152B Plaster Tending (Mixing)	2	_____
APP 160B Miners Preparedness and Awareness	4	_____
APP 162B Drilling and Blasting	4	_____
APP 164B Pneumatic Air Tool Handling	2	_____
APP 166B Mine Rescue	1	_____
APP 168B Microbial Remediation	1	_____
APP 200B OSHA for Laborers	2	_____
APP 212B Foreman Preparedness	2	_____
APP 263B Weatherization Installation Technician	5	_____
APP 266B Weatherization Supervisor	3	_____
APP 269B Weatherization Energy Auditor	3	_____

SPECIAL PROGRAM REQUIREMENTS (33 CREDITS)

	CR	SEMESTER
CORE REQUIREMENTS (14 credits)		
APP 102B Introduction to Apprentice Craft	4	_____
APP 104B General Construction	4	_____
APP 105B Concrete Flat Work	2	_____

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any APP journeyman course offered for credit may be substituted for any of the above APP apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Laborer Trades' Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Environmental and Construction Laborer Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **LBCONT-CT**

PROGRAM DESCRIPTION

This program prepares the student for employment as a Journeyman Laborer with the Laborers Union. **This is a restricted entry program. The student MUST be indentured in the Laborers’ Environmental and Construction Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Demonstrate an understanding of all OSHA regulations and concrete codes applicable to laborers.
- Demonstrate an understanding of sealing the building envelope in determining what weatherization solutions are applicable.
- Demonstrate an understanding of how to recognize hazardous building materials containing asbestos and/or lead.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS CONTINUED

	CR	SEMESTER
CHOOSE ELECTIVES (13 credits)		_____
APP 108B Body Mechanics and Fall Protection	1	
APP 120B Confined Space Awareness	2	
APP 121B Line and Grade	4	
APP 122B Oxyfuel Gas Cutting	4	
APP 123B Blueprint Reading for Laborers	3	
APP 128B Asphalt	2	
APP 130B Hazardous Waste Handling for Laborers	4	
APP 132B Radiation	1	
APP 134B Lead Abatement	2	
APP 136B Asbestos Abatement	2	
APP 139B Pipe Laying (Pressurized)	2	
APP 140B Scaffold Building	2	
APP 142B Forklift Operations and Awareness	1	
APP 144B Operation of Motor Driven Power Equipment	1	
APP 146B Operation of Concrete Core Drilling, Saw Cutting and Compaction Equipment	1	
APP 150B Mason Tending (Trowel)	2	
APP 152B Plaster Tending (Mixing)	2	
APP 160B Miners Preparedness and Awareness	4	
APP 162B Drilling and Blasting	4	
APP 164B Pneumatic Air Tool Handling	2	
APP 166B Mine Rescue	1	
APP 168B Microbial Remediation	1	
APP 200B OSHA for Laborers	2	
APP 212B Foreman Preparedness	2	
APP 263B Weatherization Installation Technician	5	
APP 266B Weatherization Supervisor	3	
APP 269B Weatherization Energy Auditor	3	

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
CORE REQUIREMENTS (14 credits)		_____
APP 102B Introduction to Apprentice Craft	4	_____
APP 104B General Construction	4	_____
APP 105B Concrete Flat Work	2	_____
APP 107B Concrete Walls and Columns Work	2	_____
APP 127B Rigging and Signaling	2	_____

Computation included in APP 104B, 105B, 107B, 120B, 121B
 Human Relations included in APP 102B, 212B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any APP journeyman course offered for credit may be substituted for any of the above APP apprentice course. Contact the program coordinator for details. Special consideration will be given students who complete the Laborer Trades’ Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies Equipment Operators Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **OPEEQP-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Operating Engineer with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable Operating Engineers' tools.
- Comprehend and utilize formulas used in the calculations of all phases of Operating Engineers' work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in Operating Engineers' work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	6	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)

	CR	SEMESTER
CORE REQUIREMENTS (30 credits)		
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 153B Grade Checking I	5	_____
OPE 155B Plan Reading/Grade Checking II	5	_____
OPE 157B Specialized Equipment	5	_____
OPE 159B Cranes	5	_____
OPE 201B Hazardous Materials Handling Awareness	5	_____
CHOOSE ELECTIVES (5 credits)		_____
OPE 108B Hydraulics	5	_____
OPE 212B Welding	5	_____
OPE 214B Heavy Equipment Repair or OPE (any) journeyman classes offered for college credit (credit may vary).	5	_____

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Operating Engineers Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Equipment Operators Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **OPEEQP-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Operating Engineer with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable Operating Engineers’ tools.
- Comprehend and utilize formulas used in the calculations of all phases of Operating Engineers’ work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in Operating Engineers’ work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 153B Grade Checking I	5	_____
OPE 155B Plan Reading/Grade Checking II	5	_____
OPE 157B Specialized Equipment	5	_____
OPE 159B Cranes	5	_____
OPE 270B OSHA 30	2	_____

Computation included in OPE 153B, 155B

Human Relations included in OPE 101B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please see the program coordinator for details. Special consideration will be given students who complete the Equipment Operators Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies
Floor Coverer Emphasis

REQUIRED CREDITS: **60**

DEGREE CODE: **FLOOR-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Floor Coverer with the Floor Coverers Union. **This is a restricted entry program. Students MUST be indentured in the Floor Coverers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable floor covering tools.
- Comprehend and utilize formulas used in the calculations of all phases of floor covering work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with floor covering Installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (33 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER		CR	SEMESTER
MATHEMATICS MATH 116	3	_____	FLCV 100B Introduction to the Union and Construction Trade	1	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____	FLCV 111B Introduction to the Flooring Trade	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____	FLCV 121B Floor Installation Process	5	_____
COMPUTING IS 101	3	_____	FLCV 131B Carpet Installation Process	5	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B; SOC 101	3	_____	FLCV 141B Special Floors and Finishes	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	8	_____	FLCV 200B Math for Floor Coverers	2	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 101, 102, 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	6	_____	FLCV 211B Drawings (Blueprints) for Floor Coverers	2	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____	FLCV 221B Safety Awareness	4	_____
			FLCV 231B Leadership	2	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any FLCV journeyman course offered for credit may be substituted for any of the above FLCV apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Floor Coverers Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Floor Coverer Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **FLOOR-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Floor Coverer with the Floor Coverers Union. **This is a restricted entry program. Students MUST be indentured in the Floor Coverers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable floor coverer tools.
- Comprehend and utilize formulas used in the calculations of all phases of floor covering work.
- Comprehend the ability to troubleshoot and repair any problems that arise with floor covering installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
FLCV 100B Introduction to the Union and Construction Trade	1	_____
FLCV 111B Introduction to the Flooring Trade	3	_____
FLCV 121B Floor Installation Process	5	_____
FLCV 131B Carpet Installation Process	5	_____
FLCV 141B Special Floors and Finishes	3	_____
FLCV 200B Math for Floor Coverers	2	_____
FLCV 211B Drawings (Blueprints) for Floor Coverers	2	_____
FLCV 221B Safety Awareness	4	_____
FLCV 231B Leadership	2	_____

Computation included in FLCV 200B, 221B

Human Relations included in FLCV 231B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any FLCV journeyman course offered for credit may be substituted for any of the above FLCV apprentice courses. Please contact the program coordinator for details.
- Special consideration will be given students who complete the Floor Coverers Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

General Construction Inspector Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **OPECONSAAS**

PROGRAM DESCRIPTION

This degree prepares the students for employment as a General Construction Inspector with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable Operating Engineers' tools.
- Comprehend and utilize formulas used in the calculations of all phases of Operating Engineers' work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in Operating Engineers' work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	6	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)

	CR	SEMESTER
CORE REQUIREMENTS (25 credits)		
OPE 201B Hazardous Materials Handling Awareness	5	_____
OPE 202B Soils Inspection and Testing	5	_____
OPE 204B Reinforced Concrete Inspector	5	_____
OPE 206B Pre-Stressed Concrete Inspector	5	_____
OPE 208B Structural Masonry Inspector	5	_____
CHOOSE ELECTIVES (10 credits)		
OPE 209B General Construction Inspector	5	_____
OPE 211B Spray Applied Fire Proofing Inspector	5	_____
OPE 213B Structural Steel and Bolting Inspector	5	_____

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Operating Engineers Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
General Construction Inspector Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **OPECONS-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a General Construction Inspector with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable building codes and inspection requirements.
- Comprehend and utilize formulas used in the calculations of all phases of construction inspection.
- Demonstrate the ability to troubleshoot and report any problems that arise in during a structural inspection.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
OPE 201B Hazardous Materials Handling Awareness	5	_____
OPE 202B Soils Inspection and Testing	5	_____
OPE 204B Reinforced Concrete Inspector	5	_____
OPE 206B Pre-Stressed Concrete Inspector	5	_____
OPE 208B Structural Masonry Inspector	5	_____
OPE 270B OSHA 30	2	_____

Computation included in OPE 202B, 204B, 206B, 208B

Human Relations included in OPE 202B, 204B, 206B, 208B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please see the program coordinator for details. Special consideration will be given students who complete the Operating Engineers Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies Glazier Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **GLAZ-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Glazier with the Glaziers Union. **This is a restricted entry program. Students MUST be indentured in the Glaziers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills, emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable glazing tools and equipment.
- Comprehend and utilize formulas used in the calculations of all phases of glazing work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in glazing installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	8	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (33 CREDITS)

	CR	SEMESTER
GLZR 111B Glazier I	5	_____
GLZR 112B Glazier II	3	_____
GLZR 121B Glazier III	4	_____
GLZR 122B Glazier IV	3	_____
GLZR 131B Glazier V	5	_____
GLZR 132B Glazier VI	5	_____
GLZR 141B Glazier VII	5	_____
GLZR 142B Glazier VIII	3	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any GLZR journeyman course offered for credit may be substituted for any of the above GLZR apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Glaziers Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Glazier Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **GLAZ-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Glazier with the Glaziers Union. **This is a restricted entry program. Students MUST be indentured in the Glaziers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable glazier tools and equipment.
- Comprehend and utilize formulas used in the calculations of all phases of glazier work.
- Comprehend the ability to troubleshoot and repair any problems that arise in glazing installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
GLZR 111B Glazier I	5	_____
GLZR 112B Glazier II	3	_____
GLZR 121B Glazier III	4	_____
GLZR 122B Glazier IV	3	_____
GLZR 131B Glazier V	5	_____
GLZR 132B Glazier VI	5	_____
GLZR 270B OSHA 30	2	_____

Computation included in GLZR 111B, 112B, 131B
 Human Relations included in GLZR 132B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any GLZR journeyman course offered for credit may be substituted for any of the above GLZR apprentice courses. Please contact the program coordinator for details.
 Special consideration will be given students who complete the Glaziers Certificate of Achievement if they are affected by the retroactive six year rule..



Apprenticeship Studies

Heat and Frost Insulator Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **HTFRST-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman with the Heat and Frost Insulators Union. **This is a restricted entry program. Students MUST be indentured in the Heat and Frost Insulators Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable heat and frost insulator tools.
- Comprehend and utilize formulas used in the calculations of all phases of heat and frost insulator work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in heat and frost insulation installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)

	CR	SEMESTER		CR	SEMESTER
MATHEMATICS	3	_____	ASB 101B Asbestos Worker I	4	_____
MATH 116			ASB 102B Asbestos Worker II	3	_____
ENGLISH COMPOSITION	3	_____	ASB 111B Asbestos Worker III	3	_____
ENG 101 or 102 or 107			ASB 112B Asbestos Worker IV	5	_____
COMMUNICATIONS	3	_____	ASB 120B Asbestos Worker V	4	_____
COM 101 or 215; or ENG 101			ASB 121B Asbestos Worker VI	4	_____
HUMAN RELATIONS	3	_____	ASB 201B Asbestos Worker VII	6	_____
ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B			ASB 202B Asbestos Worker VIII	6	_____
NATURAL SCIENCE	6	_____			
AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEO 100; PHYS 110					
SOCIAL SCIENCE/HUMANITIES	3	_____			
ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101					
U.S. AND NEVADA CONSTITUTIONS	4-6	_____			
PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217					

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any ASB journeyman course offered for credit may be substituted for any of the above ASB apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Heat and Frost Insulators’ Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Heat and Frost Insulator Emphasis

REQUIRED CREDITS: **32**

DEGREE CODE: **HTFRST-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Insulator with the Heat and Frost Insulators Union. **This is a restricted entry program. Students MUST be indentured in the Heat and Frost Insulators Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable heat and frost insulator tools.
- Comprehend and utilize formulas used in the calculations of all phases of heat and frost insulator work.
- Comprehend the ability to troubleshoot and repair any problems that arise in heat and frost insulation installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (29 CREDITS)

	CR	SEMESTER
ASB 101B Asbestos Worker I	4	_____
ASB 102B Asbestos Worker II	3	_____
ASB 111B Asbestos Worker III	3	_____
ASB 112B Asbestos Worker IV	5	_____
ASB 120B Asbestos Worker V	4	_____
ASB 121B Asbestos Worker VI	4	_____
ASB 201B Asbestos Worker VII	6	_____

Computation included in ASB 101B, 111B

Human Relations included in ASB 201B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any ASB journeyman course offered for credit may be substituted for any of the above ASB apprentice courses. Please contact the program coordinator for details. Special consideration will be given students who complete the Heat and Frost Insulators’ Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Heavy Duty Repairman Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **OPERPR-AAS**

PROGRAM DESCRIPTION

This degree prepares the student for employment as a Journeymen Heavy Duty Repairman with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skill emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable heavy duty repairman tools.
- Comprehend and utilize formulas used in the calculations of all phases of heavy duty repair work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in heavy duty repair work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)

	CR	SEMESTER		CR	SEMESTER
MATHEMATICS MATH 116	3	_____	OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____	OPE 108B Hydraulics	5	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____	OPE 124B Blueprint Reading for Welders/Machinists	5	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____	OPE 201B Hazardous Materials Handling Awareness	5	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	6	_____	OPE 210B Diesel and High Compression Engines	5	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____	OPE 212B Welding	5	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____	OPE 214B Heavy Equipment Repair	5	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Operating Engineers Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Heavy Duty Repairman Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **OPERPR-CT**

PROGRAM DESCRIPTION

This program prepares the student for employment as a Journeymen Heavy Duty Repairman with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable heavy duty repairman tools.
- Comprehend and utilize formulas used in the calculations of all phases of heavy duty repair work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in heavy duty repair work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 108B Hydraulics	5	_____
OPE 124B Blueprint Reading for Welders/Machinists	5	_____
OPE 201B Hazardous Materials Handling Awareness	5	_____
OPE 210B Diesel and High Compression Engines	5	_____
OPE 270B OSHA 30	2	_____

Computation included in OPE 108B, 124B, 210B

Human Relations included in OPE 101B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for details. Special consideration will be given students who complete the Operating Engineers Heavy Duty Repairman Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies Inside Wireman Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **ELAPPR-AAS**

PROGRAM DESCRIPTION

This degree prepares students to take the Journeyman Electricians Exam administered by the International Brotherhood of Electrical Workers. **This is a restricted entry program. Students MUST be indentured in the IBEW Inside Wireman Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable electrical tools.
- Comprehend and utilize formulas used in the calculations of all phases of electrical work.
- Install all necessary equipment to complete any electrical system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in electrical systems.
- Successfully pass Journeyman Electrician's exams administered by the IBEW and the Clark County Building Department.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (28 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (32 CREDITS)

	CR	SEMESTER		CR	SEMESTER
<u>MATHEMATICS</u> ELEC 121B	4	_____	ELEC 111B Electrical Apprentice I	4	_____
<u>ENGLISH COMPOSITION</u> ENG 101 or 102 or 107	3	_____	ELEC 112B Electrical Apprentice II	4	_____
<u>COMMUNICATIONS</u> COM 101 or 215; or ENG 101	3	_____	ELEC 122B Electrical Apprentice IV	4	_____
<u>HUMAN RELATIONS</u> ELEC 150B	4	_____	ELEC 131B Electrical Apprentice V	4	_____
<u>NATURAL SCIENCE</u> AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	7	_____	ELEC 132B Electrical Apprentice VI	4	_____
<u>SOCIAL SCIENCE/HUMANITIES</u> ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____	ELEC 141B Electrical Apprentice VII	4	_____
<u>U.S. AND NEVADA CONSTITUTIONS</u> PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____	ELEC 142B Electrical Apprentice VIII	4	_____
			ELEC 152B Electrical Apprentice X	4	_____

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Special consideration will be given students who complete the Trade Union Electrical Apprentice Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Inside Wireman Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **ELAPPR-CT**

PROGRAM DESCRIPTION

This program prepares students to take the Journeyman Electrician Exam administered by the International Brotherhood of Electrical Workers. **This is a restricted entry program. Students MUST be indentured in the IBEW Inside Wireman Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable electrical tools.
- Comprehend and utilize formulas used in the calculations of all phases of electrical work.
- Install all necessary equipment to complete any electrical system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in electrical systems.
- Successfully pass Journeyman Electrician’s exams administered by the IBEW and the Clark County Building Department.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
ELEC 111B Electrical Apprentice I	4	_____
ELEC 112B Electrical Apprentice II	4	_____
ELEC 121B Electrical Apprentice III	4	_____
ELEC 122B Electrical Apprentice IV	4	_____
ELEC 127B Mobile Equipment Safety	1	_____
ELEC 131B Electrical Apprentice V	4	_____
ELEC 132B Electrical Apprentice VI	4	_____
ELEC 137B OSHA 30	2	_____

Computation included in ELEC 111B, 112B, 121B

Human Relations included in ELEC 112B, 121B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Special consideration will be given students who complete the Trade Union Inside Wireman Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies
Installer/Technician Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **ELEAPPR-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as an Installer/Technician with the International Brotherhood of Electrical Workers. **This is a restricted entry program. Students MUST be indentured in the IBEW Installer/Technician Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable electrical tools.
- Comprehend and utilize formulas used in the calculations of all phases of electrical work.
- Install all necessary equipment to complete any electrical system.
- Comprehend the ability to troubleshoot and repair any problems that arise in electrical systems.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS	3	_____	ELEC 127B Mobile Equipment Safety	1	_____
COM 101 or 215; or ENG 101			ELEC 137B OSHA 30	2	_____
			ELEC 161B Installer/Technician Apprentice I	4	_____
			ELEC 162B Installer/Technician Apprentice II	4	_____
			ELEC 163B Installer/Technician Apprentice III	4	_____
			ELEC 164B Installer/Technician Apprentice IV	4	_____
			ELEC 165B Installer/Technician Apprentice V	4	_____
			ELEC 166B Installer/Technician Apprentice VI	4	_____
			Computation included in ELEC 161B, 162B		
			Human Relations included in ELEC 161B, 162B		

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Special consideration will be given students who complete the Trade Union Installer/Technician Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies
Sign Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **ELSIGN-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Sign Electrician with the International Brotherhood of Electrical Workers. **This is a restricted entry program. Students MUST be indentured in the IBEW Sign Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable electrical tools.
- Comprehend and utilize formulas used in the calculations of all phases of electrical work.
- Install all necessary equipment to complete any electrical system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in electrical systems.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
ELEC 127B Mobile Equipment Safety	1	_____
ELEC 137B OSHA 30	2	_____
ELEC 171B Sign Apprentice I	4	_____
ELEC 172B Sign Apprentice II	4	_____
ELEC 173B Sign Apprentice III	4	_____
ELEC 174B Sign Apprentice IV	4	_____
ELEC 175B Sign Apprentice V	4	_____
ELEC 176B Sign Apprentice VI	4	_____

Computation included in ELEC 172B, 174B, 176B

Human Relations included in ELEC 171B, 176B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Special consideration will be given students who complete the Trade Union Sign Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies Machinist Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **OPEMACHAAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Machinist with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable machinists' tools.
- Comprehend and utilize formulas used in the calculations of all phases of machinists' work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in machinists' work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (30 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (30 CREDITS)

	CR	SEMESTER		CR	SEMESTER
MATHEMATICS OPE 116B	5	_____	OPE 105B Machine Tools I	5	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____	OPE 110B Technical Sketching	5	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____	OPE 124B Blueprint Reading for Welders/Machinists	5	_____
HUMAN RELATIONS OPE 101B	5	_____	OPE 131B Introduction to Computer Aided Drafting	5	_____
NATURAL SCIENCE OPE 260B	5	_____	OPE 201B Hazardous Materials Handling Awareness	5	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____	OPE 212B Welding	5	_____
U.S. AND NEVADA CONSTITUTIONS HIST 101 and HIST 102; or HIST 101 and HIST 217	6	_____			

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Operating Engineers Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Machinist Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **OPEMACH-CT**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Machinist with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable machinists’ tools.
- Comprehend and utilize formulas used in the calculations of all phases of machinists’ work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in machinists’ work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 105B Machine Tools I	5	_____
OPE 116B Machinists/Surveyors Math	5	_____
OPE 124B Blueprint Reading for Welders/Machinists	5	_____
OPE 131B Introduction to Computer Aided Drafting	5	_____
OPE 270B OSHA 30	2	_____
Computation included in OPE 116B		
Human Relations included in OPE 101B		

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please see the program coordinator for details. Special consideration will be given students who complete the Operating Engineers Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Millwright Emphasis

REQUIRED CREDITS: 61

DEGREE CODE: MWA-AAS

PROGRAM DESCRIPTION

This degree prepares the students for employment as a Journeyman Millwright with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable millwright tools.
- Comprehend and utilize formulas used in the calculation of all phases of millwright work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in millwright work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

	CR	SEMESTER
MATHEMATICS	3	_____
MATH 116		
ENGLISH COMPOSITION	3	_____
ENG 101 or 102 or 107		
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		
HUMAN RELATIONS	3	_____
ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B		
NATURAL SCIENCE	6-7	_____
AST 101; BIOL 101; CHEM 103; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110		
SOCIAL SCIENCE/HUMANITIES	3	_____
ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101		
U.S. AND NEVADA CONSTITUTIONS	4-6	_____
PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217		

SPECIAL PROGRAM REQUIREMENTS (32 CREDITS)

	CR	SEMESTER
CORE REQUIREMENTS (32 credits)		
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____

SPECIAL PROGRAM REQUIREMENTS CONTINUED

	CR	SEMESTER
CORE REQUIREMENTS CONTINUED		
CPT 137B Rigging	2	_____
MWA 105B Millwright General Skills A	1.5	_____
MWA 107B Millwright General Skills B	1.5	_____
MWA 109B Cutting and Burning	1.5	_____
MWA 111B Welding Fabrication A	1.5	_____
MWA 113B Optics and Machinery Alignment	1.5	_____
MWA 115B Machinery Shaft Alignment	1.5	_____
MWA 117B Structural Welding - AWS A	1.5	_____
MWA 119B Structural Welding - AWS B	1.5	_____
MWA 121B Turbine Familiarization	1.5	_____
MWA 125B Pumps	1.5	_____
MWA 127B Turbine Maintenance	1.5	_____
MWA 129B Conveyor Systems	1.5	_____
MWA 131B Drives, Pulleys and Belts	1.5	_____
MWA 133B Compressor Theory and Maintenance	1.5	_____
MWA 135B Machinery Installation and Erection A	1.5	_____
MWA 137B Machinery Installation and Erection B	1.5	_____

CHOOSE ELECTIVES (4 credits)

CPT 115B Transit Level/Laser	2	_____
CPT 129B Advanced Print Reading	2	_____
CPT 145B Scaffold Erector Qualification	2	_____
DWA 131B Light Gage Welding - AWS	2	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any MWA journeyman course offered for credit may be substituted for any of the above MWA apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Millwright Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Millwright Emphasis

REQUIRED CREDITS: **30.5**

DEGREE CODE: **MWA-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Millwright with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable millwright tools.
- Comprehend and utilize formulas used in the calculations of all phases of millwright work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with millwright work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (27.5 CREDITS)

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 137B Rigging	2	_____
MWA 105B Millwright General Skills A	1.5	_____
MWA 107B Millwright General Skills B	1.5	_____
MWA 109B Cutting and Burning	1.5	_____
MWA 111B Welding Fabrication A	1.5	_____
MWA 113B Optics and Machinery Alignment	1.5	_____
MWA 115B Machinery Shaft Alignment	1.5	_____
MWA 117B Structural Welding - AWS A	1.5	_____
MWA 119B Structural Welding - AWS B	1.5	_____
MWA 121B Turbine Familiarization	1.5	_____
MWA 125B Pumps	1.5	_____
MWA 127B Turbine Maintenance	1.5	_____
MWA 129B Conveyor Systems	1.5	_____
MWA 131B Drives, Pulleys and Belts	1.5	_____
Computation included in MWA 105B, 107B		
Human Relations included in CPT 102B		

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any MWA journeyman course offered for credit may be substituted for any of the above MWA apprentice courses. Please contact the program coordinator for details.
 Special consideration will be given students who complete the Millwright Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Oil Well Drillers Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **OPEOIL-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Oil Well Driller with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable oil well drilling tools.
- Comprehend and utilize formulas used in the calculations of all phases of oil well drilling work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in oil well drilling work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (30 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
COMPUTING CIT 100B, 102B, 103B, 106B, 107B, 108B, 109B	1	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	8	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS HIST 101 and HIST 102; or HIST 101 and HIST 217	6	_____

SPECIAL PROGRAM REQUIREMENTS (30 CREDITS)

	CR	SEMESTER
CORE REQUIREMENTS (25 credits)		
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 173B Drilling I	5	_____
OPE 175B Drilling II	5	_____
OPE 177B Drilling III	5	_____
OPE 201B Hazardous Materials Handling Awareness	5	_____
CHOOSE ELECTIVES (5 credits)		_____
OPE 157B Specialized Equipment	5	
OPE 212B Welding	5	
OPE 214B Heavy Equipment Repair	5	
or		
OPE (any) journeyman classes offered for College credit (credit may vary).		

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Operating Engineers Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Oil Well Drillers Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **OPEOIL-CT**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Oil Well Driller with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable oil well drilling tools.
- Comprehend and utilize formulas used in the calculations of all phases of oil well drilling work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in oil well drilling work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 173B Drilling I	5	_____
OPE 175B Drilling II	5	_____
OPE 177B Drilling III	5	_____
OPE 201B Hazardous Materials Handling Awareness	5	_____
OPE 270B OSHA 30	2	_____

Computation included in OPE 173B, 175B, 177B

Human Relations included in OPE 101B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please see the program coordinator for details. Special consideration will be given students who complete the Operating Engineers Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Painter Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **PAINT-AAS**

PROGRAM DESCRIPTION

This program prepares the student for employment as a Journeyman Painter with the Painters Union. **This is a restricted entry program. Students MUST be indentured in the Painters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations, components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable painting tools.
- Comprehend and utilize formulas used in the calculations of all phases of painting work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in painting installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (30 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (30 CREDITS)

	CR	SEMESTER		CR	SEMESTER
MATHEMATICS MATH 116	3	_____	PTD 101B Painting/Decorating Apprentice I	4	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____	PTD 102B Painting/Decorating Apprentice IB	4	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____	PTD 105B OSHA/First Aid/CPR	1	_____
COMPUTING IS 101	3	_____	PTD 151B Painting/Decorating Apprentice II	4	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____	PTD 152B Painting/Decorating Apprentice IIB	4	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	8	_____	PTD 155B Respirators/Lead Abatement	1	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____	PTD 201B Painting/Decorating Apprentice III	4	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____	PTD 202B Painting/Decorating Apprentice IIIB	4	_____
			PTD 205B Heavy Equipment Operation	1	_____
			PTD 255B COMET	1	_____
			PTD 270B OSHA 30	2	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any PTD journeyman course offered for credit may be substituted for any of the above PTD apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Painting Trades Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Painter Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **PAINT-CT**

PROGRAM DESCRIPTION

This program prepares the student for employment as a Journeyman Painter with the Painters Union. **This is a restricted entry program. Students MUST be indentured in the Painters Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable painters tools.
- Comprehend and utilize formulas used in the calculations of all phases of painting work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in painting installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
PTD 101B Painting/Decorating Apprentice I	4	_____
PTD 102B Painting/Decorating Apprentice IB	4	_____
PTD 105B OSHA/First Aid/CPR	1	_____
PTD 151B Painting/Decorating Apprentice II	4	_____
PTD 152B Painting/Decorating Apprentice IIB	4	_____
PTD 155B Respirators/Lead Abatement	1	_____
PTD 201B Painting/Decorating Apprentice III	4	_____
PTD 202B Painting/Decorating Apprentice IIIB	4	_____
PTD 205B Heavy Equipment Operation	1	_____

Computation included in PTD 101B, 102B, 151B, 152B, 155B, 201B, 202B

Human Relations included in PTD 101B, 102B, 151B, 152B, 201B, 202B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any PTD journeyman course offered for credit may be substituted for any of the above PTD apprentice courses. Please contact the program coordinator for details. Special consideration will be given students who complete the Painting Trades Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Pile Driver Emphasis

REQUIRED CREDITS: 60

DEGREE CODE: PDA-AAS

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Pile Driver with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable pile driver tools.
- Comprehend and utilize formulas used in the calculations of all phases of pile driver work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with pile driver work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	6-7	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 105B Basic Wall Framing	1.5	_____
CPT 107B Print Reading	2	_____
CPT 115B Transit Level/Laser	2	_____
CPT 129B Advanced Print Reading	2	_____
CPT 137B Rigging	2	_____
CPT 145B Scaffold Erector Qualification	2	_____
MWA 111B Welding Fabrications A	1.5	_____
MWA 117B Structural Welding - AWS A	1.5	_____
MWA 119B Structural Welding - AWS B	1.5	_____
PDA 105B Piles and Hammers A	1.5	_____
PDA 107B Piles and Hammers B	1.5	_____
PDA 109B Pile Caps and Columns A	1.5	_____
PDA 111B Pile Caps and Columns B	1.5	_____
PDA 113B Falsework A	1.5	_____
PDA 115B Falsework B	1.5	_____
PDA 117B Abutments A	1.5	_____
PDA 119B Abutments B	1.5	_____
PDA 121B Bridge Deck Forms A	1.5	_____
PDA 123B Bridge Deck Forms B	1.5	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any PDA journeyman course offered for credit may be substituted for any of the above PDA apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Pile Driver Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Pile Driver Emphasis

REQUIRED CREDITS: **31**

DEGREE CODE: **PDA-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Pile Driver with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable pile driver tools.
- Comprehend and utilize formulas used in the calculations of all phases of pile driver work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with pile driver work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (28 CREDITS)

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 137B Rigging	2	_____
CPT 145B Scaffold Erector Qualification	2	_____
MWA 117B Structural Welding - AWS A	1.5	_____
MWA 119B Structural Welding - AWS B	1.5	_____
PDA 105B Piles and Hammers A	1.5	_____
PDA 107B Piles and Hammers B	1.5	_____
PDA 109B Pile Caps and Columns A	1.5	_____
PDA 111B Pile Caps and Columns B	1.5	_____
PDA 113B Falsework A	1.5	_____
PDA 115B Falsework B	1.5	_____
PDA 117B Abutments A	1.5	_____
PDA 119B Abutments B	1.5	_____
PDA 121B Bridge Deck Forms A	1.5	_____
PDA 123B Bridge Deck Forms B	1.5	_____

Computation included in CPT 137B

Human Relations included in CPT 102B, 104B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any PDA journeyman course offered for credit may be substituted for any of the above PDA apprentice courses. Please contact the program coordinator for details.
- Special consideration will be given students who complete the Pile Driver Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Piping Trades Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **PPF-AAS**

PROGRAM DESCRIPTION

This degree prepares students to take the Journeyman Piping Trades exam administered by the United Association. **This is a restricted entry program. Students MUST be indentured in the United Association Piping Trades Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable pipe trades tools.
- Comprehend and utilize formulas used in the calculations of all phases of the piping trades.
- Install all necessary equipment to complete any piping system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in piping systems.
- Successfully pass Journeyman Pipe Trade exams administered by the United Association and the Clark County Building Department.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (28 CREDITS)

	CR	SEMESTER
<u>MATHEMATICS</u> PPF 102B	4	_____
<u>ENGLISH COMPOSITION</u> ENG 101 or 102 or 107	3	_____
<u>COMMUNICATIONS</u> COM 101 or 215; or ENG 101	3	_____
<u>HUMAN RELATIONS</u> PPF 101B	4	_____
<u>NATURAL SCIENCE</u> AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	7	_____
<u>SOCIAL SCIENCE/HUMANITIES</u> ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
<u>U.S. AND NEVADA CONSTITUTIONS</u> PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (32 CREDITS)

	CR	SEMESTER
PPF 151B Second Year Plumbers and Pipefitters Apprentice I	4	_____
PPF 152B Second Year Plumbers and Pipefitters Apprentice II	4	_____
PPF 201B Third Year Plumbers and Pipefitters Apprentice I	4	_____
PPF 202B Third Year Plumbers and Pipefitters Apprentice II	4	_____
PPF 251B Fourth Year Plumbers and Pipefitters Apprentice I	4	_____
PPF 252B Fourth Year Plumbers and Pipefitters Apprentice II	4	_____
PPF 291B Fifth Year Plumbers and Pipefitters Apprentice I	4	_____
PPF 292B Fifth Year Plumbers and Pipefitters Apprentice II	4	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any PPF journeyman course offered for credit may be substituted for any of the above PPF apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Piping Trades Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Piping Trades Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **PPF-CT**

PROGRAM DESCRIPTION

This program prepares students to take the Journeyman Piping Trades exam administered by the United Association. **This is a restricted entry program. Students MUST be indentured in the United Association Piping Trades Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable piping tools.
- Comprehend and utilize formulas used in the calculations of all phases of the piping trades.
- Install all necessary equipment to complete any piping system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in piping systems.
- Successfully pass Journeyman Pipe Trade exams administered by the United Association and the Clark County Building Department.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS	3	_____	PPF 101B	4	_____
COM 101 or 215; or ENG 101			First Year Plumbers and Pipefitters Apprentice I		
			PPF 102B	4	_____
			First Year Plumbers and Pipefitters Apprentice II		
			PPF 116B	2	_____
			Technical Math for Piping Trades		
			PPF 151B	4	_____
			Second Year Plumbers and Pipefitters Apprentice I		
			PPF 152B	4	_____
			Second Year Plumbers and Pipefitters Apprentice II		
			PPF 170B	0.5	_____
			OSHA 10		
			PPF 201B	4	_____
			Third Year Plumbers and Pipefitters Apprentice I		
			PPF 202B	4	_____
			Third Year Plumbers and Pipefitters Apprentice II		
			PPF 240B	0.5	_____
			First Aid/CPR		
			Computation included in PPF 101B, 102B, 116B		
			Human Relations included in PPF 101B, 102B		

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any PPF journeyman course offered for credit may be substituted for any of the above PPF apprentice courses. Please see the program coordinator for details. Special consideration will be given students who complete the Piping Trades Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies Plasterer Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **PLA-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Plasterer with the Plasterers Union. **This is a restricted entry program. Students MUST be indentured in the Plasterers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable plasterer tools.
- Comprehend and utilize formulas used in the calculations of all phases of plaster work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with plastering installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (30 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (30 CREDITS)

	CR	SEMESTER		CR	SEMESTER
MATHEMATICS	3	_____	PLA 111B Plasterer Apprentice I	4	_____
MATH 116			PLA 112B Plasterer Apprentice IB	3	_____
ENGLISH COMPOSITION	3	_____	PLA 141B Plasterer Apprentice II	3	_____
ENG 101 or 102 or 107			PLA 142B Plasterer Apprentice IIB	4	_____
COMMUNICATIONS	6	_____	PLA 201B Plasterer Apprentice III	3	_____
COM 101 or 215; or ENG 101			PLA 202B Plasterer Apprentice IIIB	4	_____
HUMAN RELATIONS	3	_____	PLA 251B Plasterer Apprentice IV	3	_____
MGT 100B or PSY 101 or SOC 101			PLA 252B Plasterer Apprentice IVB	4	_____
NATURAL SCIENCE	8	_____	PLCM 270B OSHA 30	2	_____
EGG 131 and 132					
SOCIAL SCIENCE/HUMANITIES	3	_____			
ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101					
U.S. AND NEVADA CONSTITUTIONS	4-6	_____			
PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217					

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any PLA, journeyman course offered for credit may be substituted for any of the above PLA apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Plasterer Apprentice Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Plasterer Emphasis

REQUIRED CREDITS: **31**

DEGREE CODE: **PLA-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Plasterer with the Plasterers Union. **This is a restricted entry program. Students MUST be indentured in the Plasterers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable plasterer tools.
- Comprehend and utilize formulas used in the calculations of all phases of plastering work.
- Comprehend the ability to troubleshoot and repair any problems that arise in tile plastering installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (28 CREDITS)

	CR	SEMESTER
PLA 111B Plasterer Apprentice I	4	_____
PLA 112B Plasterer IB	3	_____
PLA 141B Plasterer II	3	_____
PLA 142B Plasterer IIB	4	_____
PLA 201B Plasterer Apprentice III	3	_____
PLA 202B Plasterer Apprentice IIIB	4	_____
PLA 251B Plasterer Apprentice IV	3	_____
PLA 252B Plasterer Apprentice IVB	4	_____

Computation included in PLA 141B, 142B

Human Relations included in PLA 111B, 112B, 142B, 201B, 202B, 251B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any PLA journeyman course offered for credit may be substituted for any of the above PLA apprentice courses. Please contact the program coordinator for details. Special consideration will be given students who complete the Tile Setters Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Reinforcing Ironworker Emphasis

REQUIRED CREDITS: **62**DEGREE CODE: **IRWIRN-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Reinforcing Ironworker with the Ironworkers Union. **This is a restricted entry program. Students MUST be enrolled in the Reinforcing Ironworkers Apprenticeship Program before enrolling in classes.** In addition to special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable Reinforcing Ironworker tools.
- Comprehend and utilize formulas used in the calculations of all phases of Reinforcing Ironworker work.
- Comprehend the ability to troubleshoot and repair any problems that arise in reinforcing ironwork installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (27 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)

	CR	SEMESTER		CR	SEMESTER
MATHEMATICS MATH 116	3	_____	IRW 110B Introduction to Ironworking	2	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____	IRW 112B Metal Buildings	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____	IRW 114B Mixed Base for Ironworkers	3	_____
HUMAN RELATIONS MGT 100B	3	_____	IRW 116B Reinforcing Iron I	3	_____
NATURAL SCIENCE EGG 131 and 132	8	_____	IRW 150B Rigging for Ironworkers	3	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____	IRW 152B Welding I for Ironworkers	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____	IRW 154B Reinforcing Iron II	3	_____
			IRW 156B Welding II for Ironworkers	3	_____
			IRW 202B Welding III for Ironworkers	3	_____
			IRW 204B Detailing I for Reinforcing Iron	3	_____
			IRW 206B Detailing II for Reinforcing Iron	3	_____
			IRW 208B Foreman Training for Ironworkers	3	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any IRW journeyman course offered for credit may be substituted for any of the above IRW apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Trade Union Ironworker Apprentice Associate of Applied Science degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Reinforcing Ironworker Emphasis

REQUIRED CREDITS: **38**

DEGREE CODE: **IRWIRN-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Reinforcing Ironworker with the Ironworkers Union. **This is a restricted entry program. Students MUST be indentured in the Reinforcing Ironworkers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable reinforcing iron tools.
- Comprehend and utilize formulas used in the calculations of all phases of reinforcing iron work.
- Comprehend the ability to troubleshoot and repair any problems that arise in reinforcing iron work installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)

	CR	SEMESTER
IRW 110B Introduction to Ironworking	2	_____
IRW 112B Metal Buildings	3	_____
IRW 114B Mixed Base for Ironworkers	3	_____
IRW 116B Reinforcing Iron I	3	_____
IRW 150B Rigging for Ironworkers	3	_____
IRW 152B Welding I for Ironworkers	3	_____
IRW 154B Reinforcing Iron II	3	_____
IRW 156B Welding II for Ironworkers	3	_____
IRW 202B Welding III for Ironworkers	3	_____
IRW 204B Detailing I for Reinforcing Iron	3	_____
IRW 206B Detailing II for Reinforcing Iron	3	_____
IRW 208B Foreman Training for Ironworkers	3	_____

Computation included in IRW 114B, 204B
 Human Relations included in IRW 208B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any IRW journeyman course offered for credit may be substituted for any of the above IRW apprentice courses. Please contact the program coordinator for details. Special consideration will be given students who complete the Reinforcing Ironworker Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies
Residential Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **ELRES-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Residential Electrician with the International Brotherhood of Electrical Workers. **This is a restricted entry program. Students MUST be indentured in the IBEW Residential Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable electrical tools.
- Comprehend and utilize formulas used in the calculations of all phases of electrical work
- Install all necessary equipment to complete any electrical system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in electrical systems.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS	3	_____	ELEC 115B Residential Apprentice I	4	_____
COM 101 or 215; or ENG 101			ELEC 116B Residential Apprentice II	4	_____
			ELEC 117B Residential Apprentice III	4	_____
			ELEC 118B Residential Apprentice IV	4	_____
			ELEC 119B Residential Apprentice V	4	_____
			ELEC 120B Residential Apprentice VI	4	_____
			ELEC 127B Mobile Equipment Safety	1	_____
			ELEC 137B OSHA 30	2	_____
			Computation included in ELEC 115B, 116B		
			Human Relations included in ELEC 115B, 120B		

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Special consideration will be given students who complete the Trade Union Residential Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Roofer and Waterproofer Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **ROOF-AAS**

PROGRAM DESCRIPTION

This program prepares the student for employment as a Journeyman Roofer and Water Proofer with the Roofers Union. **This is a restricted entry program. Students MUST be indentured in the Roofer and Water Proofer Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable roofing tools.
- Comprehend and utilize formulas used in the calculations of all phases of roofing work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in roofing installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (28 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B; SOC 101	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	7	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS HIST 101 and HIST 102; or HIST 101 and HIST 217	6	_____

SPECIAL PROGRAM REQUIREMENTS (32 CREDITS)

	CR	SEMESTER
RFR 101B Roofers Apprentice I	4	_____
RFR 102B Roofers Apprentice I s	4	_____
RFR 151B Roofers Apprentice II	4	_____
RFR 152B Roofers Apprentice II s	4	_____
RFR 201B Roofers Apprentice III	4	_____
RFR 202B Roofers Apprentice III s	4	_____
RFR 211B Safety	4	_____
RFR 212B CPR, First Aid, and OSHA 10	4	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any RFR journeyman course offered for credit may be substituted for any of the above RFR apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Roofers Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Roofer and Waterproofer Emphasis

REQUIRED CREDITS: **31**

DEGREE CODE: **ROOF-CT**

PROGRAM DESCRIPTION

This program prepares the student for employment as a Journeyman Roofer and Water Proofer with the Roofers Union. **This is a restricted entry program. Students MUST be indentured in the Roofer and Water Proofer Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable roofing tools.
- Comprehend and utilize formulas used in the calculations of all phases of roofing work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in roofing installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

SPECIAL PROGRAM REQUIREMENTS (28 CREDITS)

	CR	SEMESTER		CR	SEMESTER	
COMMUNICATIONS	3	_____	RFR 101B	Roofers Apprentice I	4	_____
COM 101 or 215; or ENG 101			RFR 102B	Roofers Apprentice I s	4	_____
			RFR 151B	Roofers Apprentice II	4	_____
			RFR 152B	Roofers Apprentice II s	4	_____
			RFR 201B	Roofers Apprentice III	4	_____
			RFR 211B	Safety	4	_____
			RFR 212B	CPR, First Aid and OSHA 10	4	_____
			Computation included in RFR 102B			
			Human Relations included in RFR 101B			

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any RFR journeyman course offered for credit may be substituted for any of the above RFR apprentice courses. Please contact the program coordinator for details. Special consideration will be given students who complete the Roofers and Waterproofers Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Scaffold Erector Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **SEA-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Scaffold Erector with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable scaffold erector tools.
- Comprehend and utilize formulas used in the calculations of all phases of scaffold erector work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with scaffold erector installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	6-7	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)

	CR	SEMESTER
CORE REQUIREMENTS (27 credits)		
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 129B Advanced Print Reading	2	_____
SEA 105B Basic Frame Scaffold	1.5	_____
SEA 109B Basic System Scaffold	1.5	_____
SEA 111B Basic Suspended Scaffold	1.5	_____
SEA 113B Basic Tube and Clamp Scaffold	1.5	_____
SEA 115B Intermediate Frame Scaffold	1.5	_____
SEA 117B Intermediate System Scaffold	1.5	_____
SEA 119B Advanced Frame Scaffold	1.5	_____
SEA 121B Advanced System Scaffold	1.5	_____
SEA 123B Advanced Suspended Scaffold	1.5	_____
SEA 125B Scaffold Re-Shoring	2	_____
SEA 127B Scaffold in Confined Spaces	1.5	_____
SEA 129B Specialty Scaffold Applications	2	_____
CHOOSE ELECTIVES (8 credits)		
CPT 105B Basic Wall Framing	1.5	_____
CPT 111B Wall Forming	1.5	_____
CPT 115B Transit Level/Laser	2	_____
CPT 121B Stair and Ramp Forming	1.5	_____
CPT 137B Rigging	2	_____
CPT 145B Scaffold Erector Qualification	2	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any SEA journeyman course offered for credit may be substituted for any of the above SEA apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Scaffold Erector Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Scaffold Erector Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **SEA-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Scaffold Erector with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable scaffold erector tools.
- Comprehend and utilize formulas used in the calculations of all phases of scaffold erector work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with scaffold installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 129B Advanced Print Reading	2	_____
SEA 105B Basic Frame Scaffold	1.5	_____
SEA 109B Basic System Scaffold	1.5	_____
SEA 111B Basic Suspended Scaffold	1.5	_____
SEA 113B Basic Tube and Clamp Scaffold	1.5	_____
SEA 115B Intermediate Frame Scaffold	1.5	_____
SEA 117B Intermediate System Scaffold	1.5	_____
SEA 119B Advanced Frame Scaffold	1.5	_____
SEA 121B Advanced System Scaffold	1.5	_____
SEA 123B Advanced Suspended Scaffold	1.5	_____
SEA 125B Scaffold Re-Shoring	2	_____
SEA 127B Scaffold in Confined Space	1.5	_____
SEA 129B Specialty Scaffold Applications	2	_____

Computation included in SEA 105B, 113B, 115B, 119B

Human Relations included in CPT 102B, 104B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any SEA journeyman course offered for credit may be substituted for any of the above SEA apprentice courses. Please contact the program coordinator for details. Special consideration will be given students who complete the Scaffold Erector Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Sheet Metal Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **SHEMET-AAS**

PROGRAM DESCRIPTION

This degree prepares the student for employment as a Journeyman Sheet Metal Worker with the Sheet Metal Union. **This is a restricted entry program. Students MUST be indentured in the Sheet Metal Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable sheet metal tools.
- Comprehend and utilize formulas used in the calculations of all phases of sheet metal installations.
- Demonstrate the ability to troubleshoot and repair any problems that arise in sheet metal installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (26 CREDITS):

	CR	SEMESTER
MATHEMATICS SMTL 124B	4	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
HUMAN RELATIONS SMTL 260B	2	_____
NATURAL SCIENCE SMTL 115B and one set of the following: AST 101 and 105; or BIOL 101; or CHEM 105 and 106; or GEOG 103 and 104; or GEOL 100; or PHYS 110	7-8	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (34 CREDITS)

	CR	SEMESTER
First Year: SMTL 111B First Aid/CPR I	0.5	_____
SMTL 113B Sheet Metal Drafting	4	_____
SMTL 114B Layout/Fabrication I	4	_____
SMTL 121B OSHA 10	1	_____
Second Year: SMTL 122B Sheet Metal Plans and Specifications	4	_____
SMTL 123B Layout/Fabrication II	4	_____

SPECIAL PROGRAM REQUIREMENTS CONTINUED

	CR	SEMESTER
Third Year: SMTL 230B First Aid/CPR II	0.5	_____
Choose 2 from the following in 1 discipline (8 credits): SMTL 234B Architectural Sheet Metal I	4	_____
SMTL 236B Architectural Sheet Metal II	4	_____
SMTL 240B CAD/Detailing I	4	_____
SMTL 241B CAD/Detailing II	4	_____
SMTL 242B TAB I	4	_____
SMTL 243B TAB II	4	_____
SMTL 244B Advanced Welding/Industrial I	4	_____
SMTL 245B Advanced Welding/Industrial II	4	_____
SMTL 246B HVAC-R Equipment I	4	_____
SMTL 247B HVAC-R Equipment II	4	_____
SMTL 248B Food Service Equipment Fabrication/Installation I	4	_____
SMTL 249B Food Service Equipment Fabrication/Installation II	4	_____
Fourth Year: Choose level III and level IV of the above chosen classes (8 credits): SMTL 261B TAB III	4	_____
SMTL 262B TAB IV	4	_____
SMTL 263B Advanced Welding/Industrial III	4	_____
SMTL 264B Advanced Welding/Industrial IV	4	_____
SMTL 265B HVAC-R Equipment III	4	_____
SMTL 266B HVAC-R Equipment IV	4	_____
SMTL 267B Food Service Equipment Fabrication/Installation III	4	_____
SMTL 268B Food Service Equipment Fabrication/Installation IV	4	_____
SMTL 269B CAD/Detailing III	4	_____
SMTL 270B CAD/Detailing IV	4	_____
SMTL 284B Architectural Sheet Metal III	4	_____
SMTL 285B Architectural Sheet Metal IV	4	_____

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any SMTL journeyman course offered for credit may be substituted for any of the above SMTL apprentice courses. Please contact the program coordinator for more details.
Special consideration will be given students who complete the Sheet Metal Trades Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Sheet Metal Emphasis

REQUIRED CREDITS: **32**

DEGREE CODE: **SHEMET-CT**

PROGRAM DESCRIPTION

This program prepares the student for employment as a Journeyman Sheet Metal Worker with the Sheet Metal Union. **This is a restricted entry program. Students MUST be indentured in the Sheet Metal Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable sheet metal tools.
- Comprehend and utilize formulas used in the calculations of all phases of sheet metal installations.
- Demonstrate the ability to troubleshoot and repair any problems that arise in sheet metal installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (29 CREDITS)

	CR	SEMESTER
First Year:		
SMTL 111B First Aid/CPR I	0.5	_____
SMTL 113B Sheet Metal Drafting	4	_____
SMTL 114B Layout/Fabrication I	4	_____
SMTL 115B Sheet Metal Apprentice I	3	_____
SMTL 121B OSHA 10	1	_____
Second Year:		
SMTL 122B Sheet Metal Plans and Specifications	4	_____
SMTL 123B Layout/Fabrication II	4	_____
SMTL 124B Sheet Metal Apprentice II	4	_____
Third Year:		
SMTL 230B First Aid/CPR II	0.5	_____
CHOOSE ELECTIVES (4 credits)		_____
SMTL 234B Architectural Sheet Metal I	4	
SMTL 240B CAD/Detailing I	4	
SMTL 242B TAB I	4	
SMTL 244B Advanced Welding/Industrial I	4	
SMTL 246B HVAC-R Equipment I	4	
SMTL 248B Food Service Equipment Fabrication/Installation I	4	
Computation included in SMTL 114B, 115B, 123B, 124B		
Human Relations included in SMTL 115B, 121B, 124B		

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any SMTL journeyman course offered for credit may be substituted for any of the above SMTL apprentice courses. Please contact the program coordinator for details.
- Special consideration will be given students who complete the Sheet Metal Trades Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Stationary Engineers Emphasis

REQUIRED CREDITS: **64**DEGREE CODE: **OPME-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Stationary and Maintenance Engineer. **This is a restricted entry program. Students MUST be indentured in the Stationary Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations skills are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable Stationary and Maintenance Engineers tools.
- Comprehend and utilize formulas used in the calculations of all phases of Stationary and Maintenance Engineering work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in Stationary and Maintenance Engineering systems.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (28 CREDITS)

	CR	SEMESTER
MATHEMATICS OPME 120B	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
COMPUTING IS 101	3	_____
HUMAN RELATIONS OPME 123B	3	_____
NATURAL SCIENCE OPME 107B and 109B	6	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (36 CREDITS)

	CR	SEMESTER
OPME 102B Fundamentals of Electricity	3	_____
OPME 103B Introduction to the National Electric Code	3	_____
OPME 105B Domestic Refrigeration	2	_____
OPME 106B Mechanical Power Transmission (Instrumentation)	3	_____
OPME 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	3	_____
OPME 110B Electrical, Heating and Cooling	4	_____
OPME 114B Automated Manufacturing Control	3	_____
OPME 122B Introduction to Oxy-Acetylene Welding	3	_____
OPME 133B Air Conditioning Theory	6	_____
OPME 144B Industrial Electricity	3	_____
OPME 212 Welding I	3	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPME journeyman course offered for credit may be substituted for any of the above OPME apprenticeship courses. Please contact the program coordinator more for details.
- Special consideration will be given students who complete the Operating Maintenance Engineers Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Stationary Engineers Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **OPME-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Stationary and Maintenance Engineer. **This is a restricted entry program. Students MUST be indentured in the Stationary Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable stationary and maintenance engineers tools.
- Comprehend and utilize formulas used in the calculations of all phases of stationary and maintenance engineering work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in stationary and maintenance engineering systems.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
OPME 102B Fundamentals of Electricity	3	_____
OPME 103B Introduction to the National Electric Code	3	_____
OPME 105B Domestic Refrigeration	2	_____
OPME 106B Mechanical Power Transmission (Instrumentation)	3	_____
OPME 107B Low Pressure Steam	3	_____
OPME 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	3	_____
OPME 109B High Pressure Steam	3	_____
OPME 110B Electrical, Heating and Cooling	4	_____
OPME 114B Automated Manufacturing Control	3	_____

Computation included in OPME 106B, 108B, 110B, 114B
 Human Relations included in OPME 108B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPME journeyman course offered for credit may be substituted for any of the above OPME apprenticeship courses. Please contact the program coordinator for details.
- Special consideration will be given students who complete the Operating Maintenance Engineers Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Structural Steel Ironworker Emphasis

REQUIRED CREDITS: **65**DEGREE CODE: **IRWSTL-AAS**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Stationary and Maintenance Engineer. **This is a restricted entry program. Students MUST be** This program prepares the student for employment as a Structural Steel Ironworker Journeyman with the Ironworkers Union. **This is a restricted entry program. Students MUST be indentured in the Structural Steel Ironworkers Apprenticeship Program before enrolling in classes.** In addition to special program courses, academic skills emphasizing math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable Structural Steel Ironworker tools.
- Comprehend and utilize all formulas used in the calculations of all phases of Structural Steel Ironworker work.
- Comprehend the ability to troubleshoot and repair any problems that arise in Structural Steel installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (30 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
COMPUTING IS 101	3	_____
HUMAN RELATIONS MGT 100B	3	_____
NATURAL SCIENCE EGG 131 and 132	8	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 CREDITS)

	CR	SEMESTER
IRW 110B Introduction to Ironworking	2	_____
IRW 111B Introduction to Major Work Areas	2	_____
IRW 112B Metal Buildings	3	_____
IRW 114B Mixed Base for Ironworkers	3	_____
IRW 134B Lead Abatement/OSHA	2	_____
IRW 150B Rigging for Ironworkers	3	_____
IRW 152B Welding I for Ironworkers	3	_____
IRW 153B Structural Steel I	3	_____
IRW 156B Welding II for Ironworkers	3	_____
IRW 203B Structural Steel II	3	_____
IRW 207B Structural Steel III/Precast	3	_____
IRW 208B Foreman Training for Ironworkers	3	_____
IRW 211B Architectural Ornamental Iron	2	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any IRW journeyman course offered for credit may be substituted for any of the above IRW apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Trade Union Ironworker Apprentice Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Structural Steel Ironworker Emphasis

REQUIRED CREDITS: **37**

DEGREE CODE: **IRWSTL-CT**

PROGRAM DESCRIPTION

This program prepares the student for employment as a Structural Steel Ironworker Journeyman with the Ironworkers Union. **This is a restricted entry program. Students MUST be indentured in the Structural Steel Ironworkers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable structural steel tools.
- Comprehend and utilize all formulas used in the calculations of all phases of structural steel work.
- Comprehend the ability to troubleshoot and repair any problems that arise in structural steel installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (34 CREDITS)

	CR	SEMESTER
IRW 110B Introduction to Ironworking	2	_____
IRW 111B Introduction to Major Work Areas	2	_____
IRW 112B Metal Buildings	3	_____
IRW 114B Mixed Base for Ironworkers	3	_____
IRW 150B Rigging for Ironworkers	3	_____
IRW 152B Welding I for Ironworkers	3	_____
IRW 153B Structural Steel I	3	_____
IRW 156B Welding II for Ironworkers	3	_____
IRW 203B Structural Steel II	3	_____
IRW 205B Ornamental Iron I	3	_____
IRW 207B Structural Steel III/Precast	3	_____
IRW 208B Foreman Training for Ironworkers	3	_____
or		
IRW 209B Ornamental Iron II		

Computation included in IRW 114B, 205B
 Human Relations included in IRW 208B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any IRW journeyman course offered for credit may be substituted for any of the above IRW apprentice courses. Please contact the program coordinator for details. Special consideration will be given students who complete the Structural Steel Ironworker Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies Surveyors Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **OPESUV-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Surveyor with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable surveyors' tools.
- Comprehend and utilize formulas used in the calculations of all phases of surveyor's work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in surveyor's work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (30 CREDITS)

	CR	SEMESTER
MATHEMATICS OPE 116B	5	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	3	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____
HUMAN RELATIONS OPE 283B	5	_____
NATURAL SCIENCE OPE 201B	5	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS HIST 101 and HIST 102; or HIST 101 and HIST 217	6	_____

SPECIAL PROGRAM REQUIREMENTS (30 CREDITS)

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 110B Technical Sketching	5	_____
OPE 111B Land Surveying	5	_____
OPE 117B Applied Math for Surveyors	5	_____
OPE 121B Boundary Surveys	5	_____
OPE 122B Construction Surveys	5	_____

- NOTE**
- Course numbers with the "B" suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the "H" suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprenticeship courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Operating Maintenance Engineers Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Surveyors Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **OPESUV-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Surveyor with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable surveyors’ tools.
- Comprehend and utilize formulas used in the calculations of all phases of surveyor’s work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in surveyor’s work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS COM 101 or 215; or ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 110B Technical Sketching	5	_____
OPE 111B Land Surveying	5	_____
OPE 116B Machinists/Surveyors Math	5	_____
OPE 117B Applied Math for Surveyors	5	_____
OPE 270B OSHA 30	2	_____
Computation included in OPE 116B, 117B		
Human Relations included in OPE 101B		

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please see the program coordinator for details. Special consideration will be given students who complete the Operating Engineers Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Teamster Convention Training Emphasis

REQUIRED CREDITS: **61**DEGREE CODE: **CONVEN-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Convention Teamster with the Teamsters Union. **This is a restricted entry program. Students MUST be indentured in the Convention Teamster Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable convention teamster tools.
- Comprehend and utilize formulas used in the calculations of all phases of convention teamster work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in convention teamster work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (34 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	6	_____
COMMUNICATIONS COM 101 and 215	6	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B; SOC 101	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	7	_____
SOCIAL SCIENCE/HUMANITIES ART 160; ECON 101; PHIL 102; PSY 101	3	_____
U.S. AND NEVADA CONSTITUTIONS HIST 101 and HIST 102; or HIST 101 and HIST 217	6	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
TMST 100B OSHA General Industry Class	1	_____
TMST 120B Introduction to the Convention Industry	2	_____
TMST 130B Beginning Decorating	2	_____
TMST 140B Beginning Systems	1	_____
TMST 150B Beginning Design and Repair	2	_____
TMST 160B Beginning Installation and Dismantle	2	_____
TMST 170B Forklift Theory	3	_____
TMST 200B Advanced Forklift	3	_____
TMST 220B Advanced Installation and Dismantle	3	_____
TMST 230B Lead Foreman Training	2	_____
TMST 240B First Aid/CPR	1	_____
TMST 250B Condor Operating	3	_____
TMST 260B Rigging	1	_____
TMST 270B Scissor Lift	1	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any TMST journeyman course offered for credit may be substituted for any of the above TMST apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the TMST Associate of Applied Science Degree if they are affected by the retroactive six year rule.



Apprenticeship Studies
Teamster Convention Training Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **CONVEN-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Convention Teamster with the Teamsters Union. **This is a restricted entry program. Students MUST be indentured in the Convention Teamster Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable convention teamster tools.
- Comprehend and utilize formulas used in the calculations of all phases of convention teamster work.
- Comprehend the ability to troubleshoot and repair any problems that arise in convention teamster work.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
TMST 100B OSHA General Industry Class	1	_____
TMST 120B Introduction to the Convention Industry	2	_____
TMST 130B Beginning Decorating	2	_____
TMST 140B Beginning Systems	1	_____
TMST 150B Beginning Design and Repair	2	_____
TMST 160B Beginning Installation and Dismantle	2	_____
TMST 170B Forklift Theory	3	_____
TMST 200B Advanced Forklift	3	_____
TMST 220B Advanced Installation and Dismantle	3	_____
TMST 230B Lead Foreman Training	2	_____
TMST 240B First Aid/CPR	1	_____
TMST 250B Condor Operating	3	_____
TMST 260B Rigging	1	_____
TMST 270B Scissor Lift	1	_____

Computation included in TMST 160B, 220B

Human Relations included in TMST 130B, 160B, 200B, 220B, 230B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any TMST journeyman course offered for credit may be substituted for any of the above TMST apprentice courses. Please see the program coordinator for details. Special consideration will be given students who complete the Teamster Convention Training, Certificate of Achievement if they are affected by the retroactive six year rule.



Apprenticeship Studies

Tile Setter Emphasis

REQUIRED CREDITS: **60**DEGREE CODE: **TILE-AAS**

PROGRAM DESCRIPTION

This degree prepares students for employment as a Journeyman Tile Setter with the Tile Setters Union. **This is a restricted entry program. Students MUST be indentured in the Tile Setters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable tile setting tools.
- Comprehend and utilize formulas used in the calculations of all phases of tile setting.
- Demonstrate the ability to troubleshoot and repair any problems that arise in tile setting installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (33 CREDITS)

	CR	SEMESTER
MATHEMATICS MATH 116	3	_____
ENGLISH COMPOSITION ENG 101 or 102 or 107	6	_____
COMMUNICATIONS COM 101 or 215; or ENG 101	6	_____
HUMAN RELATIONS ALS 101; ANTH 101, 112; HIST 105; HMS 130; MGT 100B	3	_____
NATURAL SCIENCE AST 101; BIOL 101; CHEM 103; EGG 131, 132; ENV 101; GEOG 103, 104; GEOL 100; PHYS 110	8	_____
SOCIAL SCIENCE/HUMANITIES ANTH 101; ART 160; ECON 102; MUS 121, 125; PHIL 102; PSY 101; SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
TLS 101B Tile Setter Apprentice I	4	_____
TLS 102B Tile Setter Apprentice IB	4	_____
TLS 105B OSHA/First Aid/CPR for Tile Setters	3	_____
TLS 151B Tile Setter Apprentice II	4	_____
TLS 152B Tile Setter Apprentice IIB	4	_____
TLS 201B Tile Setter Apprentice III	4	_____
TLS 202B Tile Setter Apprentice IIIB	4	_____

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any TLS journeyman course offered for credit may be substituted for any of the above TLS apprentice courses. Please contact the program coordinator for more details.
- Special consideration will be given students who complete the Tile Setters Trade Associate of Applied Science if they are affected by the retroactive six year rule.



Apprenticeship Studies
Tile Setter Emphasis

REQUIRED CREDITS: **30**

DEGREE CODE: **TILE-CT**

PROGRAM DESCRIPTION

This program prepares students for employment as a Journeyman Tile Setter with the Tile Setters Union. **This is a restricted entry program. Students MUST be indentured in the Tile Setters Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 702-651-4163.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize all applicable tile setter tools.
- Comprehend and utilize formulas used in the calculations of all phases of tile setting.
- Comprehend the ability to troubleshoot and repair any problems that arise in tile setting installations.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS	3	_____
COM 101 or 215; or ENG 101		

SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)

	CR	SEMESTER
TLS 101B Tile Setter Apprentice I	4	_____
TLS 102B Tile Setter Apprentice IB	4	_____
TLS 105B OSHA/First Aid/CPR for Tile Setters	3	_____
TLS 151B Tile Setter Apprentice II	4	_____
TLS 152B Tile Setter Apprentice IIB	4	_____
TLS 201B Tile Setter Apprentice III	4	_____
TLS 202B Tile Setter Apprentice IIIB	4	_____

Computation included in TLS 101B, 102B, 151B, 152B, 201B, 202B
 Human Relations included in TLS 101B, 102B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.
 - Any TLS journeyman course offered for credit may be substituted for any of the above TLS apprentice courses. Please contact the program coordinator for details. Special consideration will be given students who complete the Tile Setters Certificate of Achievement if they are affected by the retroactive six year rule.

