

IND TEK 361*	Inert Gas Arc Welding I	3
IND TEK 362	Inert Gas Arc Welding II	3
IND TEK 461	Advanced Arc Welding I	3
IND TEK 462	Advanced Welding II	3
A	,	
EGD TEK 101	Engineering Graphics	3
IND TEK 105	Industrial Print Reading with GD&T	3
IND TEK 130	Technology of Metal Machining Processes I	3
IND TEK 140	Fundamentals of CNC Technology	3
IND TEK 346	CAM Programming Using SURFCAM	3
MAJOR - TOTAL UNITS		

GENERAL EDUCATION - REQUIRED COURSES

Students must complete one of the following General Education Plans:

LACCD GE	LACCD General Education Plan21 units
CSU GE	CSU GE Breadth Certi cation Plan39 units
IGETC	Intersegmental GE Transfer Curriculum 34-37 units

^{*}See Catalog course description for prerequisites and/or corequisites.



Certificate of Achievement

(STATE CODE 36911)

Faculty Advisor: Professor Elizabeth Cheung

PROGRAM INFORMATION

e Gas and Electric Welding Certicate of Achievement is intended for students who are looking to develop their trade skills in Gas and Electric Welding pursuant to the standards established by the Ameri-

PROGRAM LEARNING OUTCOMES

Upon completion of this program, students will:

Knowledge to prepare NC programs that control the operation of various manufacturing equipment.

Safely and e ectively use a variety of machine tools. Work with inspection machines, woodworking machines, laser machines and robots.

Ability to work independently or as a team member.

MAJOR - REQUIRED COURSES

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IND TEK 105	Industrial Print Reading with GD&T3	
IND TEK 130	Technology of Metal Machining Processes I	
IND TEK 140	Fundamentals of CNC Technology3	
IND TEK 230*	Technology of Metal Machining Processes II	
IND TEK 244	CNC Programming and Machine Operation - Lathe 3	
IND TEK 248*	CNC Programming and Machine Operation - Mill 3	
IND TEK 330*	Technology of Metal Machining Processes III	
IND TEK 332*	Projects Laboratory in Metal Machining Processes I3	
IND TEK 346	CAM Programming Using SURFCAM	
IND TEK 444*	Projects LaboratoryCNC Lathe Programming	
IND TEK 448*	Projects LaboratoryCNC Mill Programming	
MAJOR - TOTAL UNITS		

GENERAL EDUCATION - REQUIRED COURSES

Students must complete one of the following General Education Plans:

LACCD GE	LACCD General Education Plan21 units
CSU GE	CSU GE Breadth Certi $$ cation Plan
IGETC	Intersegmental GE Transfer Curriculum 34-37 units

^{*}See Catalog course description for prerequisites and/or corequisites.



Certificate of Achievement

(STATE CODE 21814)

Faculty Advisor: Professor Elizabeth Cheung

PROGRAM INFORMATION

e Certi cate Program is designed for students wishing to complete only the technical requirements of the Numerical Control Programming Associate Degree program, secure employment and possibly complete the Numerical Control Programming Associate Degree while employed and attending Los Angeles Pierce College part time. It is also designed to enable mechanical draing, tool design, machine shop, and other majors to secure certication in Numerical Programming as a second area of expertise. e notes applying to the Associate