

CALALLEN / DEL MAR DUAL CREDIT PROGRAM OFFERINGS

Calallen ISD partners with Del Mar College to provide students with opportunities to earn college level certificates prior to high school graduation. Our program offerings include:

- AUTOMOTIVE PROGRAM (Level 1 Certificate)
- COSMETOLOGY PROGRAM (Level 1 Certificate)
- COURT REPORTING PROGRAM (Level 1 Certificate)
- FIRE SCIENCE (FIREFIGHTER) PROGRAM (Level 2 Certificate)
- HEATING VENTILATION AIR CONDITIONING (HVAC) PROGRAM (Level 1 Certificate)
- INSTRUMENTATION PROGRAM (Level 1 Certificate)
- WELDING (INTERMEDIATE) PROGRAM (Level 1 Certificate)
- WELDING (ADVANCED) PROGRAM (Certificate must be completed after graduation)

The course crosswalks, descriptions, and requirements provided in the following pages should be used as a planning guide. Dual credit course information is subject to change based on Del Mar offerings and requirements.

AUTOMOTIVE DUAL CREDIT PROGRAM COURSE DESCRIPTIONS

4750DC Automotive Basics

An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic automotive maintenance. May be taught manufacturer specific.

4751DC Auto Tech 1A

An overview of electrical system including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on electrical principles, schematic diagrams, and service publications. May be taught manufacturer specific.

4752DC Auto Tech 1B

Diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures, and tire and wheel service. May be taught manufacturer specific.

4910DC English for Industry Professionals

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

4651DC Intro to Welding DC

Basic welding techniques using some of the following processes: Oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), and gas tungsten arc welding (GTAW).

4762DC Auto Tech 2A

A study of human and customer relations, and customer satisfaction in the automotive service industry. Emphasis on management and building relationships between the service department and the customer.

4763DC Auto Tech 2B

Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught manufacturer specific

4930DC Applied Math for Industry Professionals

Math skills applicable to industrial occupations. Includes fraction and decimal manipulation, measurement, percentage, and problem solving techniques for equations and ratio/proportion applications.

AUTOMOTIVE DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 11th GRADE						
FALL SEMESTER						
13039550	4750DC Automotive Basics	AUMT 1405 Introduction to Automotive Technology	2	M-Th	1	4
13011600	4910DC English for Industry Professionals	COMG 1391 Special Topics in Communications, General (Online)	2	Online	1	3
>>> ENG 1301 is an Optional Alternative to COMG 1391 (requires an additional period)						
03220400	1104DC English 4 DC A	ENG 1301 English Composition I	1	M-F	0.5	3
SPRING SEMESTER						
13039600	4751DC Auto Tech 1A	AUMT 1407 Automotive Electrical Systems	2	M-Th	1	4
12701410	4930DC Applied Math for Industry Professionals	TECM 1301 Industrial Mathematics (Online)	2	Online	1	3
>>> MATH 1314 is an Optional Alternative to TECM 1301 (requires an additional period)						
03102500	1328DC College Algebra DC	MATH 1314 College Algebra Online	1	M-F	0.5	3
SUMMER SEMESTER						
13032250	4630DC Intro to Welding DC	WLDG 1307 Introduction to Welding Using Multiple Purposes	6.5	F	1	3
YEAR 2 / 12th GRADE						
FALL SEMESTER						
13039600	4752DC Auto Tech 1B	AUMT 1416 Automotive Suspension and Steering System	2	M-Th	1	4
SPRING SEMESTER						
13039700	4762DC Auto Tech 2A	AUMT 2301 Automotive Management	2	W	1	3
13039700	4763DC Auto Tech 2B	AUMT 1410 Automotive Brake System	2	M-Th	1	4
CERTIFICATE RECEIVED AT PROGRAM COMPLETION						
*** Suspension, Driveline, Brake Specialist Level 1 Certificate from Del Mar ***					AUSD.CER1	
GRADUATION ENDORSEMENT						
Business and Industry - Option B: Transportation, Distribution, and Logistics- Automotive					27 college hrs	

COSMETOLOGY DUAL CREDIT PROGRAM COURSE DESCRIPTIONS

3550DC Introduction to Cosmetology DC

A course in the basic fundamentals of cosmetology. Topics include safety and sanitation, service preparation, manicure, facial, chemical services, shampoo, haircut, wet styling, and comb out

3555DC Cosmo Nail & Spa

Presentation of the theory and practice of nail services. Topics include terminology, application, and workplace competencies related to nail services.

3561DC Cosmetology 1A with LAB

An introduction to hair design. Topics include the theory and applications of wet styling, thermal hair styling, and finishing techniques.

3562DC Cosmetology 1B with LAB

Presentation of the theory and practice of chemical reformation including terminology, application, and workplace competencies.

3563DC Cosmetology 1C with LAB

Presentation of the theory, practice, and chemistry of hair color. Topics include terminology, application and workplace competencies related to hair color.

3565DC Principles of Cosmo

An introduction to the theory and practice of hair cutting. Topics include terminology, implements, sectioning and finishing techniques

3572DC Cosmetology 2A DC

Advanced concepts in the theory and practice of hair design.

3573DC Cosmetology 2B DC

Mastery of advanced cosmetology techniques including hair designs, professional cosmetology services and workplace competencies.

3574DC Cosmetology 2C DC

Advanced concepts and practice of haircutting. Topics include haircuts utilizing scissors, razor and/or clippers.

3585DC Esthetics A DC

An overview of the procedures and operations as related to salon management.

3586DC Esthetics B DC

Introduction of the theory and practice of skin care.

3590DC Cosmetology Capstone

Preparation for the state licensing examination.

COSMETOLOGY DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 11th GRADE						
FALL SEMESTER						
13025100	3550DC Introduction to Cosmetology DC	CSME 1405 Fundamentals of Cosmetology	2.5	M-F	1	4
SPRING SEMESTER						
N1302531	3555DC Cosmo Nail & Spa	CSME 1443 Manicuring and Related Theory	2.5	M-F	2	4
SUMMER SEMESTER						
13025210	3561DC Cosmetology 1A with LAB	CSME 1354 Artistry of Hair Design 1	4	M-F	1	3
	3562DC Cosmetology 1B with LAB	CSME 1453 Chemical Reformation & Related Theory	2	M-F	1	4
	3563DC Cosmetology 1C with LAB	CSME 2401 Principles of Hair Coloring	2	M-F	1	4

YEAR 2 / 12th GRADE						
FALL SEMESTER						
13025050	3565DC Principles of Cosmo	CSME 1310 Introduction to Haircutting & Theory	2	M-F	1	3
13025310	3572DC Cosmetology 2A DC	CSME 2439 Advanced Hair Design	2	M-F	1	4
	3573DC Cosmetology 2B DC	CSME 2337 Advanced Cosmetology Techniques	1	M-F	1	3
SPRING SEMESTER						
13025310	3574DC Cosmetology 2C DC	CSME 2310 Advanced Hair Cutting & Theory	2	M-F	1	3
N1302533	3585DC Esthetics A DC	CSME 1244 Introduction to Salon Development	1	M-F	1	2
	3586DC Esthetics B DC	CSME 1248 Principles of Skin Care	1	M-F	1	2
13025000	3590DC Cosmetology Capstone	CSME 2441 Preparation for State Examination (Capstone)	2	M-F	2	4

CERTIFICATION REQUIREMENTS AFTER PROGRAM COMPLETION	
*** Cosmetology Certificate from Del Mar College ***	COSM.CER1
GRADUATION ENDORSEMENT	
Public Services – Option B: Human Services – Cosmetology and Personal Care Services	40 college hrs

COURT REPORTING DUAL CREDIT PROGRAM COURSE DESCRIPTIONS

3011DC Foundations of Court Reporting A

Instruction in general principles of real-time machine shorthand theory and skill building through read-back of dictation notes, machine practice, and transcription. This course is designed to be repeated to meet program requirements.

3012DC Foundations of Court Reporting B

Continued development of real-time shorthand skills through read-back, machine practice, and transcription. This course is designed to be repeated to meet program standards.

3013DC Realtime Court Reporting A

Development of computer and machine shorthand skills necessary for writing real-time for production of projects and assignments.

3014DC Realtime Court Reporting B

Continued development of computer and machine shorthand skills necessary for writing real-time for production of projects and assignments.

3015DC Realtime Court Reporting C

Enhancement of skills necessary for writing real-time theory and dictation practice using computer-aided technology and instructional interaction.

3016DC Data Entry for Court

An overview of captioning and Communication Access Real-time. Translation (CART) procedures, software and hardware

3017DC Court Systems and Practices A

Instruction in the duties and responsibilities of the freelance court reporter including the preparation of depositions.

3018DC Court Systems and Practices B

Continued development of real-time machine shorthand skills through read-back, machine practice, and transcription. This course is designed to be repeated multiple times to meet program standards.

3019DC Advanced Legal Systems and Professions A

Skills necessary to develop speed and accuracy in writing and transcribing literary/jury charge dictation. This course is designed to be repeated to meet program standards.

3020DC Advanced Legal Systems and Professions B

Skills necessary for developing speed and accuracy in the writing of testimony. This course is designed to be repeated to meet program standards.

COURT REPORTING DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 10th GRADE						
FALL SEMESTER						
N1303017	3011DC Foundations of Court Reporting A	CRTR 1304 Machine Shorthand I	2	M, W	.5	3
13030100	3013DC Realtime Court Reporting A	CRTR 1308 Realtime Court Reporting I	2	T, Th	.5	3
SPRING SEMESTER						
N1303017	3012DC Foundations of Court Reporting B	CRTR 1207 Machine Shorthand Speed Building	1	M, W	.5	2
13030100	3014DC Realtime Court Reporting B	CRTR 1210 Realtime Court Reporting II	1	T, Th	.5	2

YEAR 2 / 11th GRADE						
FALL SEMESTER						
13029600	3017DC Court Systems and Practices A	CRTR 2215 Court Reporting and Office Procedures	1	Online	.5	2
13011300	3016DC Data Entry for Court	CRTR 1241 Speed Building II	1	Online	.5	2
SPRING SEMESTER						
N1303016	3019DC Advanced Legal Systems and Professions A	CRTR 1257 Literary/Jury Charge Dictation I	1	T, Th	.5	2
N1303016	3020DC Advanced Legal Systems and Professions B	CRTR 2218 Testimony Dictation I	1	M, W	.5	2

YEAR 3/ 12th GRADE						
FALL SEMESTER						
13029600	3018DC Court Systems and Practices B	CRTR 2301 Intermediate Machine Shorthand		Online	.5	3
13030100	3015DC Realtime Court Reporting C	CRTR 2310 Realtime Court Reporting III		Online	.5	3
SPRING SEMESTER						
Spring semester courses will vary by student.						

CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION	
*** Information Reporting/ Scoping Certificate from Del Mar College ***	IREP.CER1
GRADUATION ENDORSEMENT	
Public Service Endorsement – Option B: Law and Public Service – Legal Studies	22 college hrs

FIRE SCIENCE DUAL CREDIT PROGRAM COURSE DESCRIPTIONS

3031DC Firefighter 1A

One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3032DC Firefighter 1B

One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3033DC Firefighter 1C

One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3034DC Firefighter 1D

One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

4001CE Medical Terminology for Firefighters

Prerequisite for selected health occupations courses. A study of medical terminology, word origin, structure and application.

3042DC Firefighter 2A

One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3043DC Firefighter 2B

One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3044DC Firefighter 2C

One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3045DC Firefighter 2D

Physical ability testing methods. Rigorous training in skills and techniques needed in typical fire department physical ability tests

4008DC EMT DC A

Preparation for certification as an Emergency Medical Technician (EMT).

4009DC EMT DC B

Health-related work-based learning experience that enables students to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

FIRE SCIENCE DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 11th GRADE						
FALL SEMESTER						
13029900	3031DC Firefighter 1A	FIRS 1301 Firefighter Certification I	1	M-Th	.5	3
13029900	3032DC Firefighter 1B	FIRS 1407 Firefighter Certification II	1	M-Th	.5	4
SPRING SEMESTER						
13029900	3033DC Firefighter 1C	FIRS1313 Firefighter Certification III	2	M-F	.5	3
13029900	3034DC Firefighter 1D	FIRS 1319 Firefighter Certification IV	1	M-F	.5	3
SUMMER SEMESTER						
13030000	3042DC Firefighter 2A	FIRS 1323 Firefighter Certification V	8	M	1	3
13030000	3043DC Firefighter 2B	FIRS 1329 Firefighter Certification VI	5	W	.5	3
13030000	3044DC Firefighter 2C	FIRS 1433 Firefighter Certification VII (Capstone)	6	T, Th	1	4
13030000	3045DC Firefighter 2D	FIRS 1103 Firefighter Agility and Fitness Prep	4	W	.5	1
YEAR 2 / 12th GRADE						
FALL SEMESTER						
13020300	4001CE Medical Terminology for Firefighters	HPRS 1106 Medical Terminology (Online)	2	Online	1	CE
SPRING SEMESTER						
N1303015	4008DC EMT DC A	EMSP 1501 Emergency Medical Technician - Basic	2	M-F	1	5
N1303015	4009DC EMT DC B	EMSP 1160 Clinical	6 per week	Varies	1	1
CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION						
*** Basic Firefighter – Level II Certificate from Del Mar ***					FIFT.CER2	
GRADUATION ENDORSEMENT						
Public Service Endorsement Option B: Law and Public Service – Emergency Services					30 college hrs	

HVAC DUAL CREDIT PROGRAM COURSE DESCRIPTIONS

4711DC HVAC 1A

Principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation.

4733DC HVAC 3A

A study of the procedures and principles used in servicing heating systems including gas fired furnaces and electric heating systems.

4712DC HVAC 1B

An introduction to the refrigeration cycle, heat transfer theory, temperature/pressure relationship, refrigerant handling, refrigeration components, and safety.

4734DC HVAC 3B

A study of air conditioning system installation, refrigerant piping, condensate disposal, and air cleaning equipment with emphasis on startup and performance testing.

4722DC HVAC 2A

Tools and instruments used in the HVAC industry. Includes proper application, use and care of these tools, and tubing and piping practices.

4723DC HVAC 2B

Certification training for HVAC refrigerant recovery, recycle, and reclaim. Instruction will provide a review of EPA guidelines for refrigerant recovery and recycling during the installation, service, and repair of all HVAC and refrigeration systems.

4724DC HVAC 2C

A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair and charging of air conditioning systems.

4725DC HVAC 2D

A basic study of HVAC and refrigeration controls; troubleshooting of control components; emphasis on use of wiring diagrams to analyze high and low voltage circuits; a review of Ohm's law as applied to air conditioning controls and circuits.

HVAC DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 12th GRADE						
FALL SEMESTER QUARTER 1						
13005800	4711DC HVAC 1A	HART 1401 Basic Electricity for HVAC	3	M-Tu	.5	4
	4712DC HVAC 1B	HART 1407 Refrigeration Principles	3	W-Th	.5	4
FALL SEMESTER QUARTER 2						
13005900	4722DC HVAC 2A	HART 1410 HVAC Shop Practices and Tools	3	M-Tu	.5	4
	4723DC HVAC 2B	HART 1356 EPA Recovery Certification Preparation (Online)	3	W-Th	.5	3
SPRING SEMESTER QUARTER 3						
13005900	4724DC HVAC 2C	HART 1441 Residential Air Conditioning	3	M-Tu	.5	4
	4725DC HVAC 2D	HART 1403 Air Conditioning Control Principles	3	W-Th	.5	4
SPRING SEMESTER QUARTER 4						
13005250	4733DC HVAC 3A	HART 1445 Gas and Electric Heating	3	M-Tu	.5	4
	4734DC HVAC 3B	HART 2338 Air Conditioning Installation and Startup Capstone	3	W-Th	.5	3
CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION						
*** Air Conditioning Applied Technology Level 1 Certificate from Del Mar ***					ACAT.CER1	
GRADUATION ENDORSEMENT						
Business and Industry – Option B: Architecture and Construction					30 college hrs	

INSTRUMENTATION DUAL CREDIT PROGRAM COURSE DESCRIPTIONS

4600DC Intro to Instrumentation and Electrical A

An overview of distributed control systems including configuration of programmable logic controllers, smart transmitters, and field communicators. Functions of digital systems in a process control environment.

4601DC Intro to Instrumentation and Electrical B

Synthesis, application, and integration of instrument installation components. Includes a comprehensive final project.

4602DC Advanced Instrument and Electrical A

A comprehensive view of fieldbus systems using theory, applications, and hands-on experiences.

4603DC Advanced Instrument and Electrical B

Automatic process control including measuring devices, analog and digital instrumentation, signal transmitters, recorders, alarms, controllers, control valves, and process and instrument diagrams. Includes connection and troubleshooting of loops.

4910DC English for Industry Professionals

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

4610DC Intro to Process Technology DC

Basic measurements, automatic control systems and design, closed loop systems, controllers, feedback, control modes, and control configurations.

4611DC Petrochemical Safety, Health, & Environment

An overview of industries employing instrument techniques. Includes instrument safety techniques and practices as applied to the instrumentation field.

4618DC AC-DC Electronics

Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques.

4619DC Digital Electronics

Techniques for configuring and calibrating transmitters, controllers, recorders, valves, and valve positioners.

4930DC Applied Math for Industry Professionals

Math skills applicable to industrial occupations. Includes fraction and decimal manipulation, measurement, percentage, and problem solving techniques for equations and ratio/proportion applications.

INSTRUMENTATION DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 10th GRADE						
FALL SEMESTER						
13040502	4610DC Intro to Process Technology DC	INTC 1341 Principles of Automatic Control	2	M-W	1	3
13011600	4910DC English for Industry Professionals	COMG 1391 Special Topics in Communications, General (Online)	2	Online	1	3
>>> ENG 1301 is an Optional Alternative to COMG 1391 (requires an additional period)						
03220400	1104DC English 4 DC A	ENGL 1301 English Composition I (R3, E3, M0)	1	M-F	.5	3
SPRING SEMESTER						
13036800	4618DC AC-DC Electronics	CETT 1409 DC-AC Circuits	2	M-Th	1	4
12701410	4930DC Applied Math for Industry Professionals	TECM 1301 Industrial Mathematics (Online)	2	Online	1	3
>>> MATH 1314 is an Optional Alternative to TECM 1301 (requires an additional period)						
03102500	1328DC College Algebra DC	MATH 1314 College Algebra Online (R3, E1, M3)	1	M-F	.5	3
YEAR 2 / 11th GRADE						
FALL SEMESTER						
13040504	4611DC Petrochemical Safety, Health, & Environment	INTC 1312 Instrumentation and Safety	5	F	1	3
SPRING SEMESTER						
13037600	4619DC Digital Electronics	INTC 1356 Instrumentation Calibration	3	M, W	1	3
YEAR 3 / 12th GRADE						
FALL SEMESTER						
N1303900	4600DC Intro to Instrumentation and Electrical A	INTC 2336 Distribute Control and Programmable Logic	3	T, Th	.5	3
	4601DC Intro to Instrumentation and Electrical B	INTC 2333 Instrumentation Systems Installation	4	M, W	.5	3
SPRING SEMESTER						
N1303901	4602DC Advanced Instrument and Electrical A	INTC 2350 Fieldbus Process Control Systems	6	F	.5	3
	4603DC Advanced Instrument and Electrical B	INTC 1343 Application of Industrial Automatic Controls	6	F	.5	3
CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION						
*** Process Tech-Industrial Instrumentation Installer Level 1 Certificate from Del Mar ***					PRII.CER1	
GRADUATION ENDORSEMENT						
Business and Industry Endorsement Option B: Refining and Chemical Processes					31 college hrs	

Recommended: All courses require R2, E2, M1 unless otherwise indicated.

Updated 10/20/2023

WELDING (INTERMEDIATE) DUAL CREDIT PROGRAM COURSE DESCRIPTIONS

4651DC Introduction to Welding

Basic welding techniques using some of the following processes: Oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and gas tungsten arc welding (GTAW).

4655DC Welding 2A

An introduction to the fundamentals of equipment used in oxy-fuel and arc welding, including welding and cutting safety, basic oxy-fuel welding and cutting, basic arc welding processes and basic metallurgy.

4653DC Welding 1A DC

An introduction to the fundamentals of equipment used in oxy-fuel and arc welding, including welding and cutting safety, basic oxy-fuel welding and cutting, basic arc welding processes and basic metallurgy.

4656DC Welding 2B

An introduction to welding equipment and safety practices, including OSHA standards for industry.

4654DC Welding 1B DC

An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on Weld positions 1G and 2G using various electrodes.

4910DC English for Industry Professionals

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

4930DC Applied Math for Industry Professionals

Math skills applicable to industrial occupations. Includes fraction and decimal manipulation, measurement, percentage, and problem solving techniques for equations and ratio/proportion applications.

WELDING (INTERMEDIATE) DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 11th GRADE						
FALL SEMESTER						
13032250	4651DC Introduction to Welding	WLDG 1407 Introduction to Welding Using Multiple Purposes	2	M-F	1	4
13011600	4910DC English for Industry Professionals	COMG 1391 Special Topics in Communications, General (Online)	2	Online	1	3
>>> ENG 1301 is an Optional Alternative to COMG 1391 (requires an additional period)						
		ENGL 1301 English Composition I (R3, E3, M0)	1	M-F	.5	3
SPRING SEMESTER						
13032300	4653DC Welding 1A DC	WLDG 1521 Welding Fundamentals	2	M-F	1	5
12701410	4930DC Applied Math for Industry Professionals	TECM 1301 Industrial Mathematics (Online)	2	Online	1	3
>>> MATH 1314 is an Optional Alternative to TECM 1301 (requires an additional period)						
		MATH 1314 College Algebra Online (R3, E1, M3)	1	M-F	.5	3
SUMMER SEMESTER						
13032300	4654DC Welding 1B DC	WLDG 1435 Introduction to Pipe Welding	4	M-Th	1	4
13032400	4655DC Welding 2A	WLDG 1557 Intermediate Shielded Metal Arc Welding (SMAW)	4	M-Th	1	5
13032400	4656DC Welding 2B	WLDG 1323 Welding Safety, Tools, and Equipment (Online)		Online	1	3
CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION						
*** Welding Applied Tech – Intermediate Welding Certificate from Del Mar *** Students who complete the Intermediate Welding Program may choose to continue to the advanced program.					WINC.CER1	
GRADUATION ENDORSEMENT						
Business and Industry Endorsement – Option B: Manufacturing Career Cluster					27 college hrs	

WELDING (ADVANCED) DUAL CREDIT PROGRAM COURSE DESCRIPTIONS

4657DC Welding 3A

A comprehensive course on the welding of pipe using the shielded metal arc welding (SMAW) process. Welds will be done using various positions. Topics covered include electrode selection, equipment setup, and safe shop practices.

4658DC Welding 3B

Advanced topics involving welding of pipe using the shielded metal arc welding (SMAW) process. Topics include electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 5G and 6G using various electrodes.

WELDING (ADVANCED) DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 11th GRADE						
Participants will complete the Welding (Intermediate) Program.						
YEAR 2 / 12th GRADE						
FALL SEMESTER						
13032410	4657DC Welding 3A	WLDG 2406 Intermediate Pipe Welding	2	M-F	1	4
SPRING SEMESTER						
13032410	4658DC Welding 3B	WLDG 2453 Advanced Pipe Welding	2	M-F	1	4
YEAR 2 / AFTER GRADUATION (ON YOUR OWN)						
SUMMER SEMESTER						
NA	Not a Calallen Course	WLDG 1313 Introduction to Blueprint Reading for Welders				3
NA	Not a Calallen Course	WLDG 2413 Intermediate Welding Using Multiple Purposes				4
NA	Not a Calallen Course	WLDG 1434 Introduction to Gas Tungsten Arc Welding (GTAW)				4
NA	Not a Calallen Course	WLDG 1317 Introduction to Layout and Fabrication				3
CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION						
*** Advanced Welding Level 2 Certificate from Del Mar OR Welding Associate in Applied Science if additional degree requirements are met after graduation***					WADC.CER2	
					49 college hrs	