

WELDING

Due to safety concerns caused by the use of potentially hazardous equipment, students must be 18 years of age or older to enroll in Welding courses. Please see www.rop.santacruz.k12.ca.us for welding courses open to minors. Note: A mandatory materials fee of \$25.00 for each course taken will be due during the first two weeks of the semester.

W 150 Arc Welding

Introduces basic arc welding skills with an emphasis on safety, oxy-acetylene cutting, shielded metal arc welding and GMAW (MIG) welding techniques. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
75532	W	06:00PM-10:05PM	2.00	G.Brown	1306
75533	TH	06:00PM-10:05PM	2.00	D.Osland	1306

W 151 Gas and TIG Welding

Presents a basic training in the flat and out of position welding of steels with the oxy-acetylene welding method, followed by the welding of steels, aluminum, and stainless steel with the GTAW process. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
75534	M	01:00PM-05:05PM	2.00	R.Royer	1306
75535	M	06:00PM-10:05PM	2.00	R.Royer	1306

W 152 Advanced Welding

Continues training in arc and gas welding in various positions; introduces MIG welding, TIG welding, flux cored arc welding, and flame cutting. Prerequisite: W 150 or W 151 or demonstrated skill equivalence. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
75537	S	08:00AM-12:05PM	2.00	A.Amercupan	1306
75536	T	06:00PM-10:05PM	2.00	A.Amercupan	1306

W 152A Advanced Arc Welding

Presents advanced training in SMAW (Stick) welding techniques, focusing on the 3G and 4G positions with low hydrogen electrodes, enabling students to pass sample AWS welding code tests. Prerequisite: W 152 or demonstrated skill equivalence. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
75539	S	09:00AM-12:05PM	1.00	A.Amercupan	1306
75538	T	07:00PM-10:05PM	1.00	A.Amercupan	1306

W 152B Advanced MIG Welding

Continues advanced training in GMAW (MIG) welding techniques, focusing on all positions and sheet steel gages, in preparation for light gage fabrication and body-fender repair applications. Prerequisite: W 152 or demonstrated skill equivalence. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
75541	S	09:00AM-12:05PM	1.00	A.Amercupan	1306
75540	T	07:00PM-10:05PM	1.00	A.Amercupan	1306

W 152C Advanced TIG Welding

Continues advanced training in GTAW (TIG) welding techniques, focusing on all position welding of sheet gage materials in steel, aluminum and stainless steels. Prerequisite: W 152 or demonstrated skill equivalence. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
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75543	S	09:00AM-12:05PM	1.00	A.Amercupan	1306
75542	T	07:00PM-10:05PM	1.00	A.Amercupan	1306

W 155 Ornamental Ironwork

Introduces the practical applications of traditional and modern metal-working techniques focusing on the history, development, and present-day practices used in the fabrication of architectural ornamental ironwork. Repeatability: May be taken 3 times.

Section	Days	Times	Units	Instructor	Room
75544	S	09:00AM-01:05PM	2.00	A.Amercupan	1306

W 158 Welding Fabrication

Presents advanced training in steel fabrication utilizing state-of-the-art welding processes with emphasis on blueprint interpretation and welding codes. Prerequisite: W 150 or W 151. Recommended Preparation: Eligibility for MATH 154. Repeatability: May be taken 2 times.

Section	Days	Times	Units	Instructor	Room
75545	T	05:00PM-05:50PM	2.00	A.Amercupan	1306
&	T	07:00PM-10:05PM		A.Amercupan	1306

  indicate open entry classes—open through the 12th week of instruction;
  indicate writing factor classes;
  Honors classes;
  indicate multicultural classes;
  indicate health and wellness classes;
  some sections of this course are taught in a distance education format.