



MANUFACTURING WELDING

GRADES 9 - 10	GRADES 10 - 11	GRADES 11 - 12	GRADE 12
Introduction to Welding	Welding 1 Dual Credit <i>Multiple Certifications awarded upon successful completion</i>	Welding 2 Dual Credit <i>Multiple Certifications awarded upon successful completion, including Forklift</i>	Practicum in Welding (Manufacturing) Dual Credit
1 Credit	2 Credits	2 Credits	2 Credits

COURSE DESCRIPTIONS

WELDING

INTRODUCTION TO WELDING

Prerequisites none

1 Credit

Grades 9-10

In Principles of Manufacturing, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology, and the assessment of the effects of manufacturing production technology prepare students for success in the modern world. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. In addition to general academic and technical knowledge and skills, students gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers. *(The student must have a grade of 75 to advance to Welding 1.)*

WELDING 1 - DC

Prerequisite Intro. to Welding

2 Credits

Grades 10-11

Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success. *(The student must have a grade of 75 to advance to Welding 2.)*

WELDING 2 - DC

Prerequisites Welding 1

2 Credits

Grades 10-11

Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. *(The student must have a grade of 75 to advance to Practicum in Welding.)*

PRACTICUM IN WELDING (MANUFACTURING) - DC

Prerequisites Advanced Welding

2 Credits

Grade 12

Practicum in Welding is designed to give students supervised practical application and/or paid internships based on previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students will also be enrolled in the pipefitting program at GC.