
Program Information

Length of Program: 16 credits, part-time, 3 quarters

Completion Award: Certificate of Completion

Enrollment: Fall, Winter, Spring

Approximate Quarterly Costs: \$0

(in addition to tuition, books and parking)

Website:

www.shoreline.edu/science/engineering/

Program Advisor:

Alison Armstrong

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Program Description

The Certificate of Completion in Solid Works introduces students to designing, drafting, or illustrating construction, engineering, manufacturing or architecture. Shoreline Community College works closely with local advisory committees and industry professionals to ensure students receive the knowledge and skills currently in demand by employers in the field. Students interested in pursuing additional education should review the Engineering A.S.-Track 2 transfer degree planning guide.

EPC J602A

Solid Works—What is it?

Designers and drafters work with engineers and other professionals to translate their ideas into technical drawings, which will guide the fabrication of products, the assembly of industrial equipment and the construction of large projects such as buildings, dams and pipelines. Technical drawings prepared by drafters typically show what the finished product or structure will look like from every angle along with detailed specifications on the dimensions, materials and assembly procedures. These drawings are then used to convey the engineer's concepts to the people who will do the actual construction. Solid Works allows designers to create and revise products in the office or through the Internet.

Program Outcomes:

Students who successfully complete this program **-by achieving a GPA of 2.0 or better for each individual course in the program-**should be able to:

1. Utilize Solid Works skills to prepare drawings that detail specifications and procedures to be used in the construction and manufacturing process.
2. Apply appropriate techniques and procedures for solving basic engineering problems.
3. Use illustration skills to create pictorial drawings for use in manuals, parts books and advertisements.
4. Use calculation skills to determine the precise size of features shown on technical drawings.

Career Opportunities—What can I do with a Certificate in Solid Works?

Employment prospects tend to be cyclic. Employment opportunities exist as entry level Mechanical Designers, Architectural Drafters, Civil Drafters, Detailers, and Technical Illustrators.

Potential employers include: Completers may be employed as entry-level drafters by architectural and construction firms, engineering, consulting, and manufacturing companies, and state and local government. For more, please visit www.shoreline.edu/acc/CareerCounseling.aspx.

Certificate of Completion—16 Credits

PROGRAM REQUIREMENTS 16 Credits			
COURSES	QTR	GR	CR
MATH 099 Intermediate Algebra II			5
ENGR& 114 Engineering Graphics			5
ENGR 205 Solid Works & Parameters Modeling			3
ENGR 206 Advanced Solid Works			3

RECOMMENDATIONS:

Note: Every effort has been made to ensure the accuracy of the information in this publication. However, the information is subject to change without notice and final career decisions are the responsibility of the students.

CERTIFICATE COMPLETION

Students should automatically receive their Certificate after successful completion of all required courses. If you have not received your Certificate, please contact the Workforce Education Programs in FOSS 5100 or call 206-546-5876.