



# Computer Aided Design

Certificate (36 SCH\*)

\*Semester Credit Hour 8/2020

## First Semester - 12 SCH

HRGY 1301 - Jewelry Techniques I  
HRGY 1302 - Jewelry Techniques II  
HRGY 1303 - Jewelry Techniques III  
HRGY 1348 - Jewelry Repair/Fabrication I

## Second Semester - 12 SCH

HRGY 1309 - Casting I  
HRGY 1341 - Stone Setting I  
HRGY 1349 - Jewelry Repair/Fabrication II  
HRGY 2333 - Casting II

## Third Semester - 12 SCH

HRGY 1371 - Introduction to Computer Aided Jewelry Design  
HRGY 1372 - Technical Illustration for Jewelry Design  
HRGY 1373 - Basic Computer Aided Drafting for Jewelry Design  
HRGY 1374 - Solid Modeling Design for Jewelry

## Marketable Skills

- Critical Thinking/Problem Solving
- Communication
- Systems Management
- Teamwork

## Program Outcomes

- Demonstrates skills in creating a working foundation in interpreting and creating computer generated designs including skills that apply techniques used in the industry.
- Demonstrates skills in use of the scientific empirical approach used in related earth sciences by practical demonstration of optical and comparative relative density testing and interpretation.
- Demonstrates skills and knowledge of collaborative techniques in managing a complex computer system to demonstrate repeatable measurable outcomes.
- Demonstrates skills in collaborating ideas to create a workable design that incorporates professional stone setting, casting and bench skills used in the industry.

## High School Endorsements

Business and Industry

## Additional Educational Opportunities

Students pursuing a certificate in CAD/CAM may also complete an AAS degree in Jewelry Technology, Horology or other certifications in jewelry, Horology, or Gemology. Opportunities also include training in the Arts or Sciences as undergraduates or graduate levels.

## Career Opportunities

Retail jewelry sales professional; Jewelry designer; Jewelry store manager; Jewelry lab grader/quality assurance technician; Bench/manufacturing jeweler; Computer aided design in other industry.