



Gemology

Certificate (16 SCH*)

*Semester Credit Hour

5/2024

First Semester - 16 SCH

JLRY 1413 - Fundamentals of Gemology I
(Diamonds)

JLRY 1414 - Fundamentals of Gemology II
(Colored Stones)

JLRY 1450 - Intermediate Gemology

JLRY 2431 - Advanced Gemological Practice

Marketable Skills

- Assign polish, symmetry, and clarity grades to stones, according to established grading systems
- Estimate wholesale and retail value of gems
- Examine gem surfaces and internal structures
- Identify and document stones' clarity characteristics

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$38,590; 10% of workers earn \$23,820 or less; 10% of workers earn \$57,500 or more.

Career Opportunities

Retail Jewelry Sales Professional; Jewelry Store Manager; Jewelry Lab Grader/Quality Assurance Technician; Jewelry Appraisal Professional; Gemological Research Technician.

Program Outcomes

- Demonstrates skills in classifying gemstones to identify unknowns using standardized gemologically recognized 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 complex scientific systems to demonstrate repeatable measurable outcomes.
- Demonstrates skills in collection of data to organize a database to communicate and compare with others gemstone professionals to confirm identities of unknown gemstones.

Additional Education Opportunities

Students pursuing a certificate in Gemology may also complete an AAS degree in Jewelry Technology, Horology or other certifications in Jewelry, Horology, or Jewelry Design CAD. Opportunities also include training in the Arts or Sciences as undergraduates or graduate levels. Opportunities are available for training in Jewelry Appraisal Practices through ISA, ASA, or the MasterValuer Program.