JEWELRY GEMOLOGY/ JEWELRY MANUFACTURING AND REPAIR

JLRY 1500 **2 credits**
Jewelry Sawing/Soldering/ Finishing **(2 lab)**
This course profiles the construction of three pairs of earrings from sheet metal. Sawing pieces for hard silver soldering is demonstrated and practiced. Professional jewelry polishing equipment is introduced.
Prerequisite: READ 0100 or equivalent.

JLRY 1510 **2 credits**
Basic Jewelry Chain Construction **(2 lab)**
This course develops precision soldering and assembly skills. One neck chain and clasp, and one bracelet and box clasp are constructed from sheet metal and round wire.
Prerequisite: JLRY 1500 and READ 0100 or equivalent.

JLRY 1520 **2 credits**
Jewelry Construction/ Sizing/Services **(2 lab)**
This course profiles the construction of wedding bands which incorporates the measuring of exact lengths for each individual size. Design applications are added to basic construction techniques.
Prerequisite: JLRY 1500 and READ 0100 or equivalent.

JLRY 1545 **2 credits**
Lost Wax Casting **(2 lab)**
This course covers the basics of lost wax casting. The process of wax injection, button and tree spruing, investment mixing, burn out, and centrifugal and vacuum casting are demonstrated and profiled. The students will inject, invest, and cast, approximately 100 rings and cast objects.
Prerequisite: READ 0100 or equivalent

JLRY 1560 **3 credits**
Silicone & Rubber Mold Making **(3 lab)**
This course covers the process of jewelry duplication for mass production. Different objects are prepared and molded using various mold making products and techniques. Silicone RTV and gum rubber mold making is demonstrated and practiced.
Prerequisites: JLRY 1500 or experience in trade and READ 0100 or equivalent.

JLRY 1570 **3 credits**
Jewelry Polishing **(3 lab)**
This course introduces the student to small jewelry shop and large jewelry factory polishing techniques. The student will polish various jewelry items. Mountings are available in class.
Prerequisite: JLRY 1500 or experience in trade and READ 0100 or equivalent

JLRY 1580 **2 credits**
Wax Carving **(2 lab)**
This course covers the basics of jewelry lost wax carving. The process of lay-out, carving, forming and finishing are demonstrated and practiced. The student will carve seven wax objects.
Prerequisite: READ 0100 or equivalent

JLRY 1590 **3 credits**
Repair 1 **(3 lab)**
This course offers approximately 40 different basic jewelry repairs. Ring sizing, half shanking, prong tipping, chain repair and ring assembly are demonstrated and practiced on alloy practice rings. The student may also provide some repairs.
Prerequisites: JLRY 1500 or instructor approval and READ 0100 or equivalent.

JLRY 1600 **3 credits**
Jewelry Special Orders **(3 lab)**
This course covers the production process of jewelry making, pricing and marketing. Time and material records are kept to determine price and profit on the school line of jewelry. The relationship between manufacturer and retailer is established.
Prerequisites: JLRY 1500 or experience in trade and READ 0100 or equivalent.

JLRY 1650 **2 credits**
Lapidary **(2 lab)**
This course is designed to introduce the basics of the art of cutting stones "en-cabochon." Students will learn about gem materials and their specific physical and optical properties that pertain to cutting cabochons. Each student will cut ten required stones.
Prerequisite: READ 0100 or equivalent

JLRY 1680 **2 credits**
Advanced Wax Carving **(2 lab)**
This course explores several different methods of creating wax patterns to be cast. Carving and fabricating wax bezels and prong settings are taught.
Prerequisites: JLRY 1580 and READ 0100 or equivalent.

JLRY 1690 **3 credits**
Repair 2 **(3 lab)**
This class will repair jewelry taken in through the school retail jewelry sales and service class. Gold and silver repairs and special orders will be processed, priced, repaired and returned to customer.
Prerequisites: JLRY 1500, 1590 or experience in trade and READ 0100 or equivalent.

JLRY 1700 **2 credits**
Diamond Prong Setting **(2 lab)**
This course profiles diamond prong setting. Various mountings are prepared and set with cubic zirconia stones. Stone setting theory is diagrammed, demonstrated and practiced. Approximately 12 different setting styles are assigned.
Prerequisites: JLRY 1500 or experience in trade and READ 0100 or equivalent.

JLRY 1710 **2 credits**
Diamond Channel Setting **(2 lab)**
This course covers the basics of diamond channel setting. The process of stone fitting, channel tightening, channel punching, filing, and finishing are profiled. The student practices channel setting a variety of different mountings.
Prerequisites: JLRY 1500 or experience in the trade and READ 0100 or equivalent.

JLRY 1720 **2 credits**
Diamond Plate Setting **(2 lab)**
This course profiles diamond plate or bead setting. Various mountings are prepared and set with round cubic zirconia stones. Diamond setting gravers are assembled, sharpened and utilized in the process of bead raising and bright cutting.
Prerequisites: JLRY 1500 or experience in trade and READ 0100 or equivalent.

JLRY 1810 **3 credits**
Basic Gemology **(1 lec/2 lab)**
This course provides a background for comprehensive understanding of gem materials. It teaches students how to identify the physical and optical properties of gems, and how to advise clients on the selection and best use of gems. This is a unit of loupe-based instruction. A text, notebook, loupe, locking tweezers and gemstone durability chart are mandatory.
Prerequisite: READ 0100 or equivalent

JLRY 1811 **3 credits**
Advanced Gemology **(1 lec/2 lab)**
This course covers advanced gemological studies and identification skills using instruments including microscope, polariscope and refractometer. It examines treatments and enhancements, laser drilling and fracture filling, and assesses durability risks in various bench operations.
Prerequisites: JLRY 1810 or equivalent, with instructor approval and READ 0100 or equivalent.

JLRY 1820 **3 credits**
Diamonds **(2 lec/1 lab)**
This course offers an overview of history, production and dollar volume. Students will evaluate the 5 C's of cut, color, carat weight, clarity and cost. Cutting, shapes and styles are discussed. Physical and optical properties are studied, along with durability, care and cleaning. Review of treatments will be encountered, including laser drilling and clarity enhancement. Damages, repair/re-cutting is discussed. A loupe, locking tweezers and text and durability chart is mandatory.
Prerequisite: READ 0100 or equivalent

JLRY 1825
Diamond Grading **3 credits**
This course covers diamond instrumentation, vocabulary, techniques of the diamond grading and plotting processes, and FTC regulations concerning diamonds.
Prerequisite: JLRY 1820 or experience in trade and READ 0100 or equivalent

JLRY 1840 **3 credits**
Repair and Service Process **(1 lec/2 lab)**
This course covers repairs and servicing take-in procedures, methods of examination, explaining repair techniques, job envelopes, estimates, record keeping and security controls.
Prerequisite: Instructor approval and READ 0100 or equivalent.

JLRY 2080 **2 credits**
Advanced Lapidary **(2 lab)**
Students will focus on advanced lapidary cuts; tongues, bullets, tri-cab, bi-cabs, and inlay into rings. The course is also an introduction to carving cabochon with diamond wheels and diamond carving points. Students will cut 8 stones and inlay one ring.
Prerequisites: JLRY 1650 and READ 0100 or equivalent.

JLRY 2130 **1 credit**
Advanced Projects 1 **(1 lab)**
This course covers the proposal, diagram and full process of producing a special jewelry project. A job sheet of documented time as well as material and supply lists will be submitted with the constructed piece for evaluation.
Prerequisites: JLRY 1500 or experience in trade and READ 0100 or equivalent.

JLRY 2131 **2 credits**
Advanced Projects 2 **(2 lab)**
This course covers the proposal, diagram and full process of producing a special jewelry project. A job sheet of documented time as well as material and supply lists will be submitted with the constructed piece for evaluation.
Prerequisites: JLRY 1500 or experience in trade and READ 0100 or equivalent.

JLRY 2132 **3 credits**
Advanced Projects 3 **(3 lab)**
This course covers the proposal, diagram and full process of producing a special jewelry project. A job sheet of documented time as well as material and supply lists will be submitted with the constructed piece for evaluation.
Prerequisites: JLRY 1500 or experience in trade and READ 0100 or equivalent.

JLRY 2140 - 2141 - 2142 **2 credits**
Independent Study **(2 lab)**
This course covers the proposal, diagram and full process of producing a special jewelry project. A job sheet of documented time as well as material and supply lists will be submitted with the constructed piece for evaluation.
Prerequisites: JLRY 1500 or experience in trade and READ 0100 or equivalent.

JLRY 2998
Directed Study **1-4 credits**
Prerequisite: One course in JLRY and READ 0100 or equivalent.

JOURNALISM

JOUR 1000 **3 credits**
Introduction to Mass Communications **(3 lec)**
This course is an introduction to the history and development of the mass media, focusing on magazines, newspapers, books, radio and television. Additional topics include: communications theory; communications philosophies, including a review of the mass media in other countries; legal restraints and protections, particularly the First Amendment; advertising and public relations; technology and electronic news gathering; media ethics and the relation of the media to the political process; the presentation of women and minorities in the media. [MnTC: 9]

JOUR 1100 **3 credits**
Reporting and News Writing **(3 lec)**
This course is an introduction to the craft of news writing and reporting. Areas of focus include traditional news values; the basic news article; investigative and feature reporting; hard and soft leads; sources, interviewing techniques and background research, including use of the Internet; broadcast journalism and electronic news gathering; media ethics and the law, with emphasis on the First Amendment.

JOUR 1200 **2 credits**
Newspaper Activity **(2 lec)**
This is a hands-on journalism workshop. After considering traditional news values and the elements of the news story, students will participate in the production of the college's newspaper. They will receive practical instruction in writing news stories and headlines, photography, layout, proofreading, copy editing, and advertising and distribution. Invited professional journalists will share their experience with the class. May be taken three times for a total of six credits.

JOUR 2998
Directed Study **1-4 credits**
Prerequisite: One course in JOUR.

LAW ENFORCEMENT

LAWE 1215 **3 credits**
Police and Community **(3 lec)**
This course addresses the affect-oriented aspects of contemporary law enforcement. Specific topics include crime prevention, police-community relations, ethical decision making, cultural diversity, bias-motivated crimes, and interpersonal communications.

LAWE 1220 **3 credits**
Juvenile Justice **(3 lec)**
In this course students will develop a knowledge of the Minnesota statutes relating to juveniles. They will explore the history and philosophies of the juvenile system including theories related to causation and the effects of delinquency. Students will learn strategies for working with juveniles in the prevention of delinquency.

LAWE 1250 **3 credits**
Introduction to Corrections
This is an introductory course which is designed to provide students with an overview of the problems and ethical dilemmas which face America's correctional system. The institution of corrections is not only a study of our prison system, it is a myriad of complex inter-relationships among many components and institutions of society. This course will uncover the factors which influence corrections, both those who work and administer in corrections and the forces outside of the corrections industry.