

JEWL 1013 Goldsmithing 1

This course introduces the student to the essential goldsmithing skills of sawing, filing, bending, annealing, soldering, and forming through assigned projects that emphasize manual dexterity and hand/eye coordination. It introduces basic metallurgy and formulae relating to jewellery making. Safety issues and correct tool use and maintenance are an important component of this course.

JEWL 1030 Goldsmithing 2

Students extend skills acquired in Goldsmithing 1 through more advanced fabrication and metalworking applications. Tubing, rivets, basic chain making, cone and pyramid construction, findings, gravity casting, and gold and platinum metallurgy advance and expand the skill set of the student. Practical and written assignments determine student outcomes.

JEWL 1017 Metal Finishing 1

Students learn the fundamentals of metal finishing through lectures, demonstrations and practical assignments. Students employ the techniques necessary to take a piece of metal from a rough worked state to a high mirror finish, and explore using texture as an alternative finish. The course covers a broad range of available tools and equipment, as well as safe working practice.

JEWL 1019 Metal Finishing 2

Students polish more complex forms and experiment with coloured surfaces as additions or alternatives to the polished surface. Industry standards, speed and fluency with the techniques are emphasized. Specialized tools and equipment are introduced.

JEWL 1034 Introduction to Gemmology 1

This course is a basic study of gemstones for jewellery students. Students practice gem identification and learn how gemstones are affected goldsmithing techniques, such as heating, finishing, and setting.

JEWL 1037 Introduction to Gemmology 2

This course continues work from Introduction to Gemmology 1 on the identification and properties of gemstones as they relate to use in jewellery.

JEWL 1038 Technical Drawing

Basic jewellery rendering skills are a prerequisite for communication with clients. Students learn how to create and work from a workshop drawing; to use the tools and equipment necessary for jewellery illustration; to express volume, metal and gemstones with pencils.

JEWL 1045 Jewellery Casting

Casting is the primary mass production technique in jewellery manufacture. Students learn the process through lectures and assignments, and follow the production of pieces from an original model through casting, making a mold, and creating multiple castings of the original piece.

JEWL 1047 Jewellery as an Industry

Students acquire an overview of the jewellery industry and its materials and processes through lectures, research and guest speakers. Students explore the diverse aspects of the jewellery industry, its products and career opportunities.

GHUM 1023 History of Jewellery and Gemstones

Body adornment has played a key role in cultures around the world and throughout time. This course is a survey of the history of jewellery and gemstones in their social and historical contexts.

STS 1037 Career Planning & Development

This course enables students to define their career goals, develop a practical career plan, acquire the knowledge and skills they need to job-hunt successfully, and recognize the importance of understanding employment trends.

COMP 1082 Computer Skills and Applications

This introduction to basic computer applications and the Internet in a Windows-based environment includes program and file management, using a Net browser and basic word processing, and spreadsheet operations. Prerequisite: none.

JEWL 1050 Industry Skills 1

Through a series of set projects students advance the skills acquired in Goldsmithing 1 & 2 in the specific application of constructing hinges, cone settings, findings, hollow rings, boxes and ring shanks. Tool making, head and shank assembly and alloying metals expand the technical skill set of the student.

JEWL 2021 Industry Skills 2

Students demonstrate skill, precision, speed and fluency while completing projects that address common industry situations such as wire manipulation and assembly, mechanical catches and findings, cluster ring construction, complex chain construction, and tap and die.

JEWL 1059 Model Making 1

Students learn layout methodologies and practice carving and forming techniques for a variety of jewellery forms in wax. Tools specific to wax work are made. Emphasis is on developing control and speed with the materials and equipment.

JEWL 1060 Model Making 2

Students utilize skills from Model Making 1 in more advanced applications, such as creating multi stone rings, two-tone jewellery and master models. Emphasis is on developing control and speed with the materials and equipment.

JEWL 2006 Gemsetting I

This course introduces the student to the fundamentals of gemsetting. Students learn about the construction and maintenance of essential tools used in gemsetting procedures by working with them on practice exercises that include claw and bezel setting.

JEWL 2011 Gemsetting II

Students build upon their knowledge from Gemsetting I through hands-on experience working on gypsy and channel settings. Students get an introduction to bead, flush, illusion, and star settings.

JEWL 2007 Jewellery Repair I

Class participants learn a wide variety of repair techniques: ring sizing; reshanking; chain repair; metal testing; bead stringing; machine engraving; retipping; soft solder; electroplating; and chemical bonding.

JEWL 2008 Jewellery Repair II

Under supervision students work on items in need of repair. Students become familiar with as many different types of repair as possible.

Jewellery Specialization Electives

JEWL 1053 Intermediate Gemmology 1

Students learn the properties and testing of the more common gemstones and organic materials in detail. Topics include their chemical and physical properties, varieties, main localities, toughness and hardness. The course also examines methodologies of artificial alteration of colour in gemstones, such as heat and irradiation.

JEWL 2022 Intermediate Gemmology 2

Students acquire diamond grading skills through theoretical study and the practical application of theory to grade diamonds according to cut, colour, clarity and carat weight using a microscope and a master colour set.

JEWL 1054 Jewellery Rendering and Illustration 1

Students apply skills and theory from Design and Colour and Technical Drawing to the specific illustration of jewellery. A variety of tools and equipment are used to render jewellery in colour sketches, counter drawings, workshop drawings and perspective drawings. Presentation methods and styles are discussed.

JEWL 1052 Metal Forming A

Students experience the plastic qualities of metal through techniques that may include forging, chasing and repousse, sinking, and raising. Tool making and maintenance are an important component of this course.

JEWL 2028 Metal Forming B

Students experience the plastic qualities of metal through techniques that may include anticlastic forming, fold forming, die forming and roller forming. Tool making and maintenance are an important component of this course.

JEWL 1057 Decorative Techniques A

This course expands the student's technical options for surface, texture, line and pattern creation in jewellery metals. Project topics include roller printing, twisted wire, inlay, metal leafing, lamination, and Japanese alloys.

JEWL 2025 Decorative Techniques B

This course expands the student's technical options for surface, texture, line and pattern creation in jewellery metals. Project topics include fusing, reticulation, filigree, kum-boo, and refractory metals.

JEWL 1056 Production Techniques A

Students explore the possibilities and issues relating to the multiple production of jewellery through lecture, project work and discussion. Casting, and etching are processes that may be utilized in this course to create jewellery. Production design strategies, manufacture strategies, marketing and pricing are discussed.

JEWL 2029 Production Techniques B

Students explore the possibilities and issues relating to the multiple production of jewellery through lecture, project work and discussion. Hydraulic die forming, electro-forming and lathe work are processes that may be utilized in this course to create jewellery. Production design strategies, manufacture strategies, marketing and pricing are discussed.

JEWL 2030 Craft Show Management

This course is intended for students who wish to pursue a career as a studio jeweller. Students will plan, prepare and work at a fine craft retail exhibition selling jewellery created by students and recent alumni of the Jewellery School. They will participate in all aspects of the show including show preparation, booth design, marketing and sales.

JEWL 1004 Enamelling 1

Enamelling is the process of fusing glass to metal. Students employ the tools and materials of enamelling to create jewellery pieces with a variety of techniques that may include stencilling, fine line calligraphy, cloisonné, champléve and foil. They consider historical and contemporary applications.

JEWL 2027 Enamelling 2

Students explore the techniques learned in Enamelling 1 in more depth. Project work is established in consultation with the professor and is structured to assist the student in developing control over techniques, and in exploring creative applications for enamelling.

JEWL 2026 ArtCam: Computer Modeling 1

Students are introduced to computer modeling for jewellery through ArtCam software. A series of projects assists the student to learn the program and create digital jewellery models. Students translate digital models to 3D master models through CAD/CAM applications.

JEWL 2036 ArtCam: Computer Modeling 2

This second level course builds upon knowledge gained in ArtCAM Computer Modelling. Students are introduced to advanced computer modeling and CNC milling operations for jewellery through ArtCAM software. A series of projects assists the student to develop skills in using the software to create complex digital jewellery models. Students translate digital models to 3D models through CAD/CAM applications.