

**COSC-190 Database Concepts and Principles 3 cr.**

A comprehensive course providing a solid, modern foundation in the fundamentals of database processing. Coverage includes understanding and applying entity-relationship data modeling, relational database design and table normalization, the SQL language and database coding, and introduction to popular multi-user databases, and current database access standards. Semester offered: Fall.

**COSC-202 Web Development I 3 cr.**

Introduction to HTML code. Creating and designing a web page in HTML, adding tables and using frames in web design. Use XML to create interactive, dynamic Web pages. Implement cascading style sheets. Prerequisites: MATH 096 or APAL 040, ENGL 095 or APEN 070, and RDNG 113 or APRD 081. Semester Offered: Fall.

**COSC-203 Web Development II 3 cr.**

This course expands on existing HTML/XHTML skills learned in COSC 202 with advanced techniques of clientside web page development using a variety of cutting edge technologies and software to help produce professional looking and structured multimedia web sites. Prerequisite: COSC 202. Semester Offered: Spring.

**COSC-214 Visual Basic I 3 cr.**

An introduction to object oriented, event-driven business application programming and graphical user interfaces in the Microsoft Windows environment. Semester Offered: On demand.

**COSC-218 Computer Programming Fundamentals II with C++ 3 cr.**

Intermediate level course in object-oriented programming with emphasis on development and use of classes in the Microsoft Visual Studio. NET environment using C++. Inheritance, polymorphism, pointers, and templates are covered. The Standard Template Library is presented as an introduction to data structures. Prerequisite: COSC 118. Semester offered: Spring.

**COSC-223 Applications-Based Programming 3 cr.**

Microcomputer program design and implementation with an emphasis on programming from an application environment. Includes the Windows programming environment, advanced database programming, and advanced use of macros in word processing and spreadsheeting environments. Prerequisites: AOAP 210, COSC 116, 185. Semester Offered: On demand.

**COSC-225 Information Systems Design 3 cr.**

Information system design techniques for computer-based information systems, including problem definition techniques, design procedures for input, output and file organization. Course uses the seminar approach with group simulation projects. Prerequisites: COSC 118 and COSC 185 or COSC 214 and COSC 185. Semester Offered: On demand.

**COSC-236 UNIX 3 cr.**

An introduction to the Linux operating system. A study of basic installation, operation, administration and troubleshooting services for the Linux operating system on workstations and servers. May be preparation for an industry certification. Prerequisite: COSC 262 or equivalent. Semester offered: Fall.

**COSC-240 Java Programming 3 cr.**

Object-Oriented programming in Java. The course covers all the basics of Java Programming with special emphasis on classes, graphics, and animation. Prerequisite: COSC 118. Semester offered: Fall.

**COSC-243 Web Programming on UNIX 3 cr.**

Designing server-side applications for the Apache and SQL web server, installed on UNIX and/or Windows systems. Interacting with databases using SQL. Developing dynamic Web pages using ASP.NET, Visual Basic.NET, and CGI/Perl. Prerequisites: COSC 118 or COSC. Semester offered: Spring.

**COSC-262 Data Structures With C++ 3 cr.**

A course in data structures, software methodologies, and analysis of algorithms using the object-oriented programming language C++. The Standard Template Library (STL) is covered in detail. Prerequisite: COSC 218. Semester Offered: Fall.

**COSC-270 Windows GUI Programming 3 cr.**

Designing programs for the Windows Graphical User Interface. A modern object-oriented language with good GUI capabilities will be used. Prerequisite: COSC 262. Semester offered: Spring.

**COSC-280 Cooperative Education 3 cr.**

Supervised cooperative work program. Student is employed in a data processing environment. Student will be supervised and rated by the employer and instructor. Semester offered: On Demand.

## COSMETOLOGY

**COSM-110 Theory I 3 cr.**

Introduces the student to the cosmetology industry concerning professional image, ethics, first aid, NM state laws and regulations, chemistry and electricity.

**COSM-111 Color Theory II 3 cr.**

Reviews the NM cosmetology state laws and regulations and professional standards. It also includes a study of the practices and techniques that are needed to pass the state board exam for cosmetology.

**COSM-120 Sterilization and Sanitation 2 cr.**

This course covers related theory, safety, methods of sterilization of materials and implements, preparation, procedures and practices, public sanitation and chemical agents.

**COSM-130 Shampoos, Rinses and Scalp Treatment 2 cr.**

Introduces the student to the preparation, procedures and practices, materials, implements, hair analysis, scalp disorders, related chemistry, record keeping and safety.

**COSM-140 Facials 3 cr.**

Introduces the related theory, anatomy, physiology, procedures and practical applications, products, theory of massage, various skin conditions, makeup application, removal of unwanted hair, client consultations, record keeping and safety.

- COSM-151 Manicuring/Pedicuring** 2 cr.  
Focuses on advanced nail techniques, including nail enhancements, related theory, application of nail tips, overlays, acrylic nails, and fiberglass nails. Also included is the study of nail disorders, nail diseases and nail irregularities.
- COSM-160 Haircutting** 5 cr.  
This course covers related basic theory, anatomy, physiology, preparations, basic procedures and practices using scissors, shears, razors and clippers. The course also looks at client consultations and recommendations, safety procedures and record keeping.
- COSM-171 Hairstyling** 3 cr.  
Increases the student's knowledge in advanced styling to include related theory, advanced procedures and practices, long hair techniques, braiding, hair extensions, hair weaving, corn rowing and hairpieces.
- COSM-181 Haircoloring/Bleaching** 2 cr.  
Designed to give the student more detailed information on haircoloring. Offers a review of tinting procedures, related theory, more advanced procedures and practice, and safety. Student learns techniques for bleaching, frosting, special effects and corrective haircoloring.
- COSM-190 Chemical Restructure/Permanent Waves** 4 cr.  
This course in chemical restructuring covers hair analysis, client consultation and recommendations, preparation, basic procedures, product knowledge, materials, implements, related chemistry, related theory in anatomy and physiology, record keeping and safety procedures.
- COSM-195 Salon Business and Retail Sales** 3 cr.  
Studies the business aspect of a salon. It includes related theory, opening a salon, business planning, written agreements, regulations, laws, salon operation, policies, practices, personnel, compensation, payroll deductions, telephone techniques, advertising, retail sales, client communications, public relations and insurance.
- COSM-196 Personal and Community Health** 3 cr.  
Designed to focus on various public health issues and personal safety concerning the cosmetology profession. It includes training in blood borne pathogens, MSDS and personal safety awareness.
- COSM-198 Clinic Practice I** 6 cr.  
Practice of all the skills and knowledge learned in related courses. Students, supervised by licensed instructors perform all work.
- COSM-199 Clinic Practice II** 3 cr.  
A continuation of the practice of all the skills and knowledge learned in related courses. Students, supervised by licensed instructors perform all work.
- COSM-211 Theory III** 3 cr.  
Areas of communication, resume writing, state laws, regulations review, job seeking and retention will be covered in this course.
- COSM-221 Testing and Student Evaluation** 2 cr.  
The student instructor will learn how to measure student ability/achievement, diagnose student weaknesses, motivation for study, and oral and written testing.
- COSM-231 Teaching Methods** 4 cr.  
Included in this course are preparation, presentation, testing, lecture, workbook, demonstration and return demonstrations, discussion, question/answer, projects and field trips.
- COSM-241 Teaching Aids** 2 cr.  
In this course, the student instructor will learn the use of film or videos, charts, mannequins, reference materials, overhead projector and transparencies.
- COSM-250 Instructor Theory** 2 cr.  
The class is limited to orientation, state laws and regulations, professional image and conduct, first aid, job seeking ethics, principles of teaching, teacher's maturity and student learning principles.
- COSM-251 Theory Teaching and Class Management** 8 cr.  
Practical experience in the classroom is the core of this course. The following areas are covered: independent classroom instruction, keeping records and making reports, safety measures, classroom conditions and maintenance, class supervision and control, classroom problems and solutions.
- COSM-261 Lab Or Clinic Supervision** 8 cr.  
The student instructor will learn independent clinic supervision, client communication, client communication/reception desk, inventory control, effective dispensary procedures, supervision of clinic sanitation/client safety and technical skills ability.
- COSM-265 Barber Crossover** 1 cr.  
Designed for individuals who are licensed as cosmetologists and who wish to become licensed as barbers. This course covers related theory, anatomy, physiology, preparation, procedures and practice products, materials and implements, and beard trimming, shaving, honing and stropping.
- COSM-270 Course Develop and Lesson Plans** 4 cr.  
Planning, analysis, implementation, outlines, components of an effective lesson plan and principles for preparing lesson plans are included in this course.
- DANCE**
- DANC-120 Beginning Ballet** 2 cr.  
Introduction to basic ballet techniques with an emphasis on barre, center and across the floor movement. Meets Physical Education activity requirements for AA degree. Semester Offered: Fall and Spring.
- DANC-130 Beginning Jazz Dance I** 2 cr.  
An introduction to jazz technique with an emphasis on refining fundamental movements and developing style. Includes all levels of development from beginner to performer. Meets Physical Education activity requirements for AA degree. Semester Offered: Fall and Spring.
- DANC-230 Intermediate Jazz Dance I** 2 cr.  
A continuation of DANC 130 with an emphasis on jazz rhythms. May be repeated once. Prerequisite: DANC 131.