

MUS 486. Applied Music Pedagogy and Literature II 2 cr.  
Methods, materials, problems, literature, and techniques in teaching individual lessons. Prerequisite: MUS 386 or consent of instructor.

MUS 498. Independent Study 1-3 cr.  
For students with a strong musical background wishing to explore content beyond the traditional curriculum. Prerequisite: consent of instructor. Restricted to majors. May be repeated for a maximum of 6 credits.

#### • NAV—Navajo Studies

*The following courses are offered at the branch campuses only.*

NAV 101. Introduction to Navajo Studies 3 cr.  
Covers geography, demography, institutions of modern Navajo society with historical overview.

NAV 111. Elementary Navajo I 4 cr.  
Navajo for beginners with emphasis on speaking skills. Prerequisite: not open to Navajo-speaking students except by consent of instructor.

NAV 112. Elementary Navajo II 4 cr.  
Navajo for beginners with emphasis on speaking skills. Prerequisite: C or better in NAV 111 or consent of instructor.

#### • NSC—Natural Science

NSC 121G. Integrated Natural Sciences I 4 cr. (3+3P)  
Concepts in astronomy, biology, chemistry, geology, and physics; connections between the sciences. Process of scientific investigation studied by inquiry into contemporary scientific problems. Designed to meet the needs of elementary education majors. Corequisite: MATH 111 or equivalent.

NSC 122. Integrated Natural Sciences II 4 cr. (3+3P)  
Continuation of N SC 121G. Prerequisite: N SC 121G or consent of instructor. Restricted to E ED and ECED majors.

NSC 351. Special Topics in Natural Sciences 1-3 cr.  
Special topics to be announced in the *Schedule of Classes*. Prerequisite: consent of instructor. May be repeated for a maximum of 6 credits.

#### • NURS—Nursing

*The following courses, with the exception of NURS 105, NURS 258, NURS 260, NURS 381, NURS 383G, NURS 384, and NURS 397, are restricted to nursing majors.*

NURS 105. Orientation to Nursing 2 cr.  
Introduction to the profession of nursing including history, educational requirements, roles, and career opportunities. Open to pre nursing and non nursing majors. Graded S/U.

NURS 110. Independent Study 1-4 cr.  
Individual studies with prior approval of department coordinator. Prerequisite: consent of instructor. May be repeated for a maximum of 10 credits.

NURS 119. Drug Calculations 1 cr. (2P)  
Covers techniques for accurate measurement, calculation, and administration of medications and fluids for children and adults. Corequisites: NURS 120, NURS 121, NURS 122, and NURS 123. Grade of C or better required.

NURS 120. Introduction to Pharmacology 3 cr.  
General principles of pharmacology including methods of administration, effect on the body, interactions with other drugs, and classification of drugs. Focus on the health care provider's role in safe pharmacologic intervention. Restricted to Allied Health majors. Branch campuses only.

NURS 121. Nursing Process: Basic Concepts 3 cr.  
Introduction to the principles and techniques of nursing process, communication dynamics, and the helping relationship. Grade of C or better required. Prerequisite: admission to nursing program. Corequisites: NURS 119, NURS 120, NURS 122 and NURS 123.

NURS 122. Skills Laboratory I 1 cr. (3P)  
Fundamental nursing skills and relevant scientific principles required for basic clinical practice taught in the laboratory setting. Prerequisite: admission to the nursing program. Corequisites: NURS 119, NURS 120, NURS 121, and NURS 123. Branch campuses only. Graded S/U. Grade of C or better required.

NURS 123. Clinical Practice I 2 cr. (6P)  
Introductory clinical using basic nursing skills, knowledge base, and nursing process in a clinical setting. Prerequisite: admission to nursing program. Corequisites: NURS 119, NURS 120, NURS 121 and NURS 122. Branch campuses only. Grade of C or better required.

NURS 127. Pharmacology Review 1 cr.  
Using an interdisciplinary perspective, the course draws upon core concepts of anatomy, physiology and pathology in order to make drug therapy more understandable. Restricted to Allied Health and Nursing majors. Graded S/U. Branch campuses only.

NURS 128. Community Service Nursing 1 cr.  
Nursing skills, principles, and processes are used to plan and/or participate in a variety of health related community projects, seminars, events, classes, etc. Specific assignments related to a variety of nursing topics are used throughout course. Prerequisite: admission to Nursing Program. Restricted to majors. Graded S/U.

NURS 131. Nursing Process: Common Health Deviations 5 cr.  
Use of the nursing process in teaching, supporting, planning, and providing care for clients of any age who are experiencing common health deviations. Grade of C or better required. Prerequisite: second semester nursing standing. Corequisite: NURS 132 and NURS 133. Branch campuses only.

NURS 132. Skills Laboratory II 1 cr. (3P)  
Learn and practice scientific principles of nursing skills to plan and provide nursing care for clients with common health deviations across the life span. Prerequisite: admission to the nursing program. Corequisite: NURS 131 and NURS 133. Branch campuses only. Graded S/U. Grade of C or better required.

NURS 133. Clinical Practice II 4 cr. (12P)  
Use of nursing skills and principles to plan and give care based on the nursing process to clients across the life span experiencing common health deviations. Prerequisite: second semester nursing standing. Corequisite: NURS 131 and NURS 132. Branch campuses only. Graded S/U. Grade of C or better required.

NURS 140. Pathophysiology for Allied Health Professionals 3 cr.  
Introduction to the nature of disease and its effect on body systems. Deals with the disease processes affecting the human body via an integrated approach to specific disease entities. Includes a review of normal functions of the appropriate body systems. Diseases are studied in relationship to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complication, treatment modalities, and prognosis. Prerequisite: a grade of C or better in OEHO 140. Restricted to Allied Health and Health Information Technology majors. Branch campuses only.

NURS 141. Fundamentals of Surgical Care I 3 cr.  
Introduction to the principles of aseptic technique, sterilization, disinfection, antisepsis, environmental safety and control, CDC and OSHA requirements. Introduction to surgical wounds and wound healing including types, stages and complications. Prerequisite: admission to Surgical Technology Program. Corequisites: NURS 142 and NURS 143. Restricted to Nursing and Allied Health majors. Branch campuses only.

NURS 142. Fundamentals of Surgical Care II 1 cr. (3P)  
Introduction to the principles of aseptic techniques, sterilization, disinfection, antisepsis, environmental safety and control, CDC and OSHA requirements, types, preparation and care of surgical supplies, packing, dressing, catheters, drains, tubes, and equipment as well as classification of instruments, sutures, and needles. Introduction to responsibilities related to the scrub and circulation roles in a perioperative setting. Prerequisite: admission to Surgical Technology Program. Corequisites: NURS 141 and NURS 143. Restricted to Nursing and Allied Health majors. Branch campuses only.

NURS 143. Fundamentals of Surgical Care III 2 cr. (6P)  
Introduction to guided surgical technology experiences in the surgical environment. Prerequisite: admission to Surgical Technology Program. Corequisites: NURS 141 and NURS 142. Restricted to Nursing and Allied Health majors. Branch campuses only.

NURS 144. Critical Thinking through Case Presentation 1 cr.  
Development of critical thinking skills by working through patient centered interdisciplinary clinical cases. Practice of clinical assessment, planning, intervention and evaluation of effects of interventions. Prerequisite: acceptance in Allied Health program.

- NURS 146. Common Health Deviations** 6 cr. (3+9P)  
Common health deviations and the manner by which they alter various body functions are explored. The role of the licensed practical nurse in assisting clients with common health deviations is presented. Ethical and legal implications and the role of the practical nurse are also considered. The licensed practical nursing student will utilize the application of knowledge to a client care situation both in the sub-acute care and acute care settings. The nursing process is presented as a guide for coordinating client care with in a chosen nursing system, each phase of the nursing process is utilized as a method of coordinating client care. Carlsbad campus only.
- NURS 150. Medical Terminology** 3 cr.  
Same as OEHO 120 and S A 150.
- NURS 151. Introduction to Nursing Practice (Fundamentals of Nursing Including Physical Assessment)** 6 cr.  
Introduction to the principles and techniques of nursing practice. Includes communication, fundamentals of nursing, physical assessment, basic pharmacology, and medication administration. Prerequisite: Admission to nursing program. Corequisite: NURS 152. Restricted to majors. Doña Ana branch only. Required: Grade of C or better.
- NURS 152. Introduction to Nursing Practice, Clinical Practice (Fundamentals of Nursing Including Physical Assessment)** 5 cr.  
Introductory skills lab and clinical practice acquiring and practicing fundamental nursing skills: communication, fundamentals of nursing, physical assessment, and medication administration. Prerequisite: Admission to nursing program. Corequisite: NURS 151. Restricted to majors. Doña Ana branch only. Required: Grade of C or better.
- NURS 153. Medication and Dosage Calculation** 1 cr.  
Techniques of dosage calculation for medication and fluid administration. Prerequisite: meet NMSU basic skills requirement in mathematics. RR applicable.
- NURS 154. Physical Assessment (f)** 2 cr.  
Beginning techniques of physical assessment by systems will be presented by using the nursing process as a guide for identifying self-care requisites throughout the life span. Prerequisite: BIOL 154. Corequisites: NURS 153, NURS 156 and NURS 156L. Branch campuses only.
- NURS 155. Special Topics** 1-6 cr.  
Specific subjects to be announced in the *Schedule of Classes*.
- NURS 156. Basic Nursing Theory and Practice (f)** 6 cr. (4+6P)  
Introduction to the nursing profession and the beginning skills of nursing practice as it relates to normalcy. Embracing the theory of Doretha Orem, the nursing process is presented as a means of guiding the student in promoting self-care. Ethical and legal aspects of nursing practice are also included. Basic clinical nursing skills will be presented and practiced in the nursing lab. The student will perform these skills with clients in an actual health care setting. Corequisite: NURS 153 and grade of C or better required. Carlsbad branch campus only.
- NURS 157. Maternal/Child Health Deviations (s)** 8 cr. (5+6P).  
The concepts and principles of nursing care of the family from conception to adolescence. Utilizing the nursing process, the student focuses on the supportive-educative nursing system to assist members of the family in meeting self-care requisites. Theoretical instruction applied to client care situation. Students assist clients in meeting universal and developmental self-care requisites. Experiences may occur in any of the regional health care facilities. Prerequisites: NURS 156. Carlsbad branch campus only.
- NURS 161. Intermediate Nursing Practice Part I** 4 cr. (12P)  
Advancement to more complex nursing skills assessment of client with common health deviations, development of care plan, continued refinement of skills acquired in NURS 150 and NURS 151. Prerequisites: NURS 151, NURS 152. Corequisite: NURS 162. Restricted to Nursing majors. Branch campuses only.
- NURS 162. Nursing Practice Part I, Clinical Practice (Common Health Deviations)** 5 cr.  
Intermediate skills lab and clinical practice acquiring and practicing more complex nursing skills: assessment of clients with common health deviations, development of care plans, continued refinement of skills acquired in NURS 151 and 152. Prerequisites: NURS 151, NURS 152, and a grade of C or better. Corequisite: NURS 161. Restricted to majors. Doña Ana branch campus only.
- NURS 170. Foundations of Nursing** 7 cr. (4+9P)  
Holistic approach to basic physical wellness and mental health of the adult client. Clinical experience will include in-patient and out-patient psychiatric settings, wellness, and physical assessment. Prerequisite: OENA 101 or consent of instructor. Corequisite: NURS 172L. Restricted to majors. Branch campuses only.
- NURS 172L. Practicum: Critical Thinking and Nursing Process** 2 cr. (6P)  
Holistic approach to wellness utilizing the nursing process and critical thinking. Introduces the nursing process and various methods of applying the process in delivery of client care. Corequisite: NURS 170. Restricted to majors. Branch campuses only.
- NURS 173. Physical Assessment** 1 cr.  
Using the nursing process, the student will be able to perform a basic health history and physical examination on an adult client. Prerequisites: BIOL 253 and BIOL 254. Restricted to NURS and OEEM majors. Branch campus only.
- NURS 178. Surgical Procedures I** 6 cr. (6P)  
Introduction to general surgery and the surgical specialties of gastroenterology; gynecology; ophthalmology; dental, oral and maxillofacial; plastic and reconstructive; pediatric; oncology; neurology; orthopedic; cardiac; thoracic; vascular transplant; HEENT. Presented in a classroom laboratory and clinical setting. Prerequisites: NURS 141, NURS 142 and NURS 143. Restricted to Allied Health and Nursing and majors. Branch campuses only.
- NURS 179. Surgical Procedures II** 4 cr. (3P)  
Continues the introduction to general surgery and the surgical specialties of gastroenterology; gynecology; ophthalmology; dental, oral and maxillofacial; plastic and reconstructive; pediatric; oncology; neurology; orthopedic; cardiac; thoracic; vascular transplant; HEENT. Presented in classroom and skills lab setting. Prerequisites: NURS 178. Restricted to Allied Health and Nursing and majors. Branch campuses only.
- NURS 180. The Adult Client I** 8 cr. (4+12P)  
Holistic care of the adult client throughout the lifespan, utilizing the nursing process to address personal wellness and acute alterations in wellness in a variety of health care settings. Laboratory and clinical practicum will focus on application of the nursing process in simulated and "real world" settings. Prerequisites: NURS 170 and NURS 172L. Corequisite: NURS 185. Restricted to majors. Branch campuses only.
- NURS 182. Legal and Ethical Issues in Nursing Practice** 2 cr.  
Introduction to legal and ethical implications of nursing practice (through the holistic approach to wellness) as a registered nurse. Prerequisite: NURS 270, and NURS 271, or consent of instructor. Corequisites: NURS 280, NURS 281, NURS 282, NURS 283, and NURS 284. Alamogordo branch campus only.
- NURS 185. Holistic Approach to Pharmacotherapeutic Intervention I** 2 cr.  
Level I. Holistic approach to the study of basic pharmacology concepts. Includes pharmacodynamic phases of drug interaction. Nursing process is discussed in relation to medication administration. Special emphasis on the role of the nurse and basic concepts related to specific drug categories. Prerequisites: NURS 170 and NURS 172L. Corequisite: NURS 180. Restricted to majors. Branch campuses only.
- NURS 186. Introduction to Perioperative Nursing I** 3 cr.  
Introduction to the surgical environment, ethical and legal patient and employee rights, preparation of the patient for surgery, surgical consent, and the operative nurse's role and responsibilities. Prerequisite: admission to Surgical Technician program or be licensed as LPN or RN. Restricted to Nursing and Allied Health Program majors.
- NURS 187. Surgical Procedures I** 6 cr. (6P)  
Introduction to general surgery and the surgical specialties of gastroenterology; gynecology; ophthalmology; dental, oral and maxillofacial; plastic and reconstructive; pediatric; oncology; neurology; orthopedic; cardiac; thoracic; vascular transplant; HEENT. Presented in classroom, laboratory and clinical setting. Prerequisites: NURS 141, NURS 142 and NURS 143. Corequisite: NURS 188 and NURS 189. Restricted to Nursing and Allied Health Program majors. Branch campuses only.
- NURS 188. Surgical Procedures II** 4 cr. (3P)  
Continues the introduction to general surgery and the surgical specialties of gastroenterology; gynecology; ophthalmology; dental, oral and maxillofacial; plastic and reconstructive; pediatric; oncology; neurology; orthopedic; cardiac; thoracic; vascular transplant; HEENT. Presented in classroom and skill lab setting. Prerequisites: NURS 141, NURS 142 and NURS 143. Corequisite: NURS 187 and NURS 189. Restricted to Nursing and Allied Health Program majors. Branch campuses only.
- NURS 189. Surgical Procedures III** 4 cr. (12P)  
Focus on the technical aspects of surgical procedures in the clinical setting for general surgery and the surgical specialties of gastroenterology; gynecology; ophthalmology; dental, oral and maxillofacial; plastic and reconstructive; pediatric; oncology; neurology; orthopedic; cardiac; thoracic; vascular transplant; HEENT. Prerequisites: NURS 141, NURS 142 and NURS 143. Corequisite: NURS 187 and NURS 188. Restricted to Nursing and Allied Health Program majors. Branch campuses only.

- NURS 201. Special Topics 1-4 cr.  
Specific topics to be announced in the *Schedule of Classes*. Prerequisite: admission to the nursing program. May be repeated for a maximum of 10 credits. Branch campuses only.
- NURS 203. Introductory Electrocardiograph Monitoring 1 cr.  
Introduction to EKG monitoring. Included cardiac rhythm interpretation, recognition of arrhythmias, common causes and intervention. Prerequisite: OEHO 153 and OEHO 154. Must be accepted into Allied Health Program.
- NURS 204. Pain management in the Adult Patient 1 cr.  
Introduction to pain management in the adult patient. Included identification of signs of pain, causation, and interventions. Interventions include both pharmacologic and holistic treatments. Prerequisites: OEHO 153 and OEHO 154. Must be accepted into Allied Health Program.
- NURS 205. Nursing Practice Update 1 cr.  
Transition from practical/vocational to technical nursing practice.
- NURS 209. Independent Study 1-4 cr.  
Individual studies to meet identified student needs. Prerequisite: admission to the nursing program. May be repeated for a maximum of 10 credits. Branch campuses only.
- NURS 210. Pharmacological Requisites of the Childbearing Family 1 cr.  
Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care will be discussed focusing on medications commonly utilized with the childbearing family. Medication classes to be discussed include labor and delivery, analgesic, vitamins, respiratory, gynecological, endocrine, and anti-microbial/anti-infective drugs. Prerequisite: BIOL 225 and BIOL 226 or consent of instructor and NURS 153 and NURS 156. Corequisite: NURS 157. Carlsbad branch campus only.
- NURS 211. Pharmacological Requisites of Simple Health Deviations 1 cr.  
Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care are addressed focusing on medications related to the psychiatric, gastrointestinal, musculoskeletal, gynecological, hematological, and anti-neoplastic client. Prerequisites: BIOL 225 and BIOL 226 or consent of instructor and NURS 153, NURS 156, NURS 157 and NURS 210. Corequisite: NURS 246 and NURS 258. Carlsbad branch campus only.
- NURS 212. Pharmacological Requisites of Complex Health Deviations 1 cr.  
Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care is examined focusing on medications related to complex health deviations. Drug classes to be discussed include cardiovascular, renal, endocrine, and neurological. Prerequisites: BIOL 225 and BIOL 226 or consent of instructor, and NURS 153, NURS 156, NURS 157, NURS 246, NURS 258, NURS 210 and NURS 211. Corequisites: NURS 256 and NURS 260. Carlsbad branch campus only.
- NURS 213. Advanced Entry Preparation 3 cr. (2+3P)  
Transition from practical/vocational nursing practice. Theory and clinical to prepare LPN/LVN for entry into second year of ADN program. Also used to refresh students who have exited the ADN program and wish to return. Prerequisite: admission to the nursing program. Branch campuses only.
- NURS 214. Nursing Process Update 1 cr.  
Introduction to the nursing process for registered nurses and licensed practical nurses.
- NURS 215. Nursing Process: Multiple Health Deviations 5 cr.  
Use of nursing process in teaching, supporting, planning, and providing care for acutely ill clients of any age experiencing multiple health deviations. C or better required. Prerequisite: third semester nursing standing. Corequisites: NURS 216 and NURS 217. Branch campuses only.
- NURS 216. Skills Laboratory III 1 cr. (3P)  
Learn and practice skills based on scientific principles required to plan and provide care for clients experiencing multiple health deviations. Prerequisite: third semester of nursing program. Corequisites: NURS 215 and NURS 217. Branch campuses only. Grade of C or better required.
- NURS 217. Clinical Practice III 4 cr. (12P)  
Use nursing skills and principles to plan and give care based on the nursing process to clients across the life span with multiple health deviations. Prerequisite: third semester nursing standing. Corequisites: NURS 215 and NURS 216. Branch campuses only. Grade of C or better required.
- NURS 220. Introduction to Professional Nursing 2 cr.  
Introduction to the nursing process as a framework for providing care. Focus on the principles, concepts, and theories basic to the study of nursing and in the evolution of nursing and nursing education.
- NURS 221. Introduction to Skills for Nursing Practice: Laboratory 3 cr. (6P)  
Introduction to the art of performing research-based patient care skills for promoting safety and comfort and for meeting physiological and psychosocial needs. Corequisite: NURS 220, NURS 222 and NURS 223.
- NURS 222. Skills for Nursing Practice: Theoretical Foundations 2 cr.  
Introduction to theoretical concepts of research-based patient care skills for promoting safety and comfort and for meeting physiological and psychosocial needs. Corequisites: NURS 220, NURS 221, and NURS 223.
- NURS 223. Basic Terminology for Nursing 1 cr.  
Basic vocabulary and fundamental constructs of nursing and medical terminology.
- NURS 230. Professional Practice Issues 2 cr.  
Analysis of the responsibilities and concerns of professional nursing. Grade of C or better required. Prerequisite: fourth-semester nursing standing. Corequisite: NURS 231 and NURS 233. Branch campuses only.
- NURS 231. Nursing Process: Complex Health Deviations 5 cr.  
Nursing process in teaching, supporting, planning, and providing care based on principles from the natural and behavioral sciences for clients of any age experiencing complex health deviations. Grade of C or better required. Prerequisite: fourth-semester nursing standing. Corequisite: NURS 230 and NURS 233. Branch campuses only.
- NURS 232. Skills Laboratory IV 1 cr. (3P)  
Learn and practice nursing skills based on scientific principles to plan and provide nursing care for clients with complex health deviations. Prerequisite: fourth semester of nursing program. Corequisite: NURS 231 and NURS 233. Branch campuses only. Grade of C or better required.
- NURS 233. Clinical Practice IV 5 cr. (15P)  
Use of nursing skills and principles to plan and give care based on the nursing process to clients of any age with complex health deviations. Prerequisite: fourth-semester nursing standing. Corequisite: NURS 230 and NURS 231. Branch campuses only. Grade of C or better required.
- NURS 246. Health Deviations I (f) 7 cr. (4+9P)  
Introduction to medical/surgical clients whose self-care needs are routine and predictable. Focus is on simple health deviations, including concepts relative to health promotion and maintenance. Pharmacological therapies are included. Focus on the care of individuals with simple health deviations. Nursing process utilized to assist patients with meeting self-care needs. Student expected to apply all nursing systems while providing care for a group of two or three clients. Grade of C or better required. Carlsbad branch campus only.
- NURS 251. Nursing Practice Part II (Multiple Health Deviations) 6 cr.  
Use of nursing process in teaching, supporting, planning, and providing care for acutely ill clients of any age experiencing multiple health deviations. Required: Grade of C or better. Prerequisites: NURS 151, 152, 161, 162 and third semester nursing standing. Corequisite: NURS 252. Restricted to majors. Doña Ana branch only.
- NURS 252. Nursing Practice Part II, Clinical 5 cr.  
Skills lab and clinical practice utilizing the nursing process in teaching, supporting, planning, and providing care for acutely ill clients of any age experiencing multiple health deviations. Required: grade of C or better. Prerequisites: NURS 151, 152, 161, 162, and third semester nursing standing. Corequisite: NURS 251. Restricted to majors. Doña Ana branch only.
- NURS 256. Health Deviations II (s) 6 cr. (4+6P)  
Concepts and principles applied to clients with complex health deviations. Focus will be on acutely ill clients that require the nurse to function in all three nursing systems. Building upon knowledge gained in NURS 246, the student focuses on individuals with complex health deviations. The nursing process continues to serve as a guide in assisting clients to meet self-care needs. The student assists the health care team in all aspects of client care. Grade of C or better required. Carlsbad branch campus only.
- NURS 258. Psychosocial Requisites: A Deficit Approach 3 cr. (3P).  
Nursing theory and practice as it relates to the care of the client experiencing psychosocial health deviations. The role of the nurse is discussed along with the ethical and legal aspects of caring for the client with psychosocial disorders. Building upon the communication skills of listening and responding, the student develops the therapeutic skills of interpersonal relationships. All nursing systems will be utilized as the student makes application to the care of clients experiencing psychosocial deviations. Grade of C or better required. Carlsbad branch campus only.

- NURS 260. Management of Patients with Health Deviations** 4 cr. (2+6P)  
Principles in providing guidance to less prepared personnel; development of leadership in directing client activities in a work setting. Preceptorship experience in which the student applies all knowledge gained throughout their nursing program. Student experiences the role of the staff nurse under the guidance and direction of their preceptor and nursing instructor. Grade of C or better required. Carlsbad branch campus only.
- NURS 261. Nursing Practice Part III (Complex Health Deviations)** 6 cr.  
Preparation for entry into professional practice as a graduate nurse. Advancement of (more complex) nursing skills: assessment of clients with complex health deviations. Includes assessment and determination of needs for clients and families with complex health deviations. Develop and implement, evaluate and reassess plans of care based on physical and psychosocial assessment. Continued refinement of skills acquired in prerequisite classes. Prerequisites: NURS 151, 152, 161, 162, 251, and 252. Corequisite: NURS 262. Restricted to majors. Doña Ana branch only. Required: grade of C or better.
- NURS 262. Nursing Practice Part III (Complex Health Deviations)** 5 cr.  
Intermediate skills lab and clinical practice acquiring and practicing more complex nursing skills: assessment of clients with common health deviations, development of care plans, continued refinement of skills acquired in NURS 251 and NURS 252. Prerequisites: NURS 151, 152, 161, 162, 251, and 252. Corequisite: NURS 261. Restricted to majors. Doña Ana branch only. Required: grade of C or better.
- NURS 270. The Adult Client II** 5 cr. (2+9P)  
Care of adult clients experiencing chronic, life-threatening, and end-of-life health alterations with emphasis on the geriatric population using a holistic approach to wellness. Nursing process, pathophysiology, pharmacology, diet therapy, and alternative therapies are stressed throughout the course. Clinical component will provide an opportunity to apply the nursing process in both the hospital and community setting. Prerequisites: NURS 180, and NURS 272. Corequisite: NURS 282L. Branch campuses only. Restricted to majors.
- NURS 272. Care for the Aging Client** 2 cr.  
Normal physiological changes of aging and nursing implications related to safety and wellness. Prerequisite: NURS 180 or consent of instructor. Restricted to NURS and OEEM majors. Branch campus only.
- NURS 275. Holistic Approach to Pharmacotherapeutic Interventions II** 1 cr.  
Level II. Holistic approach to the study of basic pharmacology concepts. Includes pharmacodynamic phases of drug interaction. Nursing process is discussed in relation to medication administration. Special emphasis on the role of the nurse and basic concepts related to specific drug categories. Prerequisite: NURS 185. Corequisites: NURS 280 and NURS 283. Restricted to majors. Branch campuses only.
- NURS 277. Introduction to Perioperative Nursing II** 3 cr. (9P)  
Focus on the technical aspects of the surgical environment for preoperative nursing in the skills lab and clinical settings. Prerequisite: NURS 186. Restricted to Nursing and Allied Health majors. Branch campuses only.
- NURS 278. Advanced Perioperative Nursing I** 3 cr.  
Introduction to the technical aspects of perioperative nursing, including perioperative pharmacology, risk management, quality improvement, standard CDC and OSHA precautions, monitoring and documentation. Prerequisites: NURS 186 and NURS 276. Corequisite: NURS 279. Restricted to Nursing and Allied Health majors. Branch campuses only.
- NURS 279. Advanced Perioperative Nursing II** 6 cr. (18P)  
Focus on the technical aspects of perioperative nursing which include perioperative pharmacology, risk management, quality improvement, monitoring and documentation, standard CDC and OSHA precautions in the skills lab and clinical settings. Prerequisites: NURS 186 and NURS 277. Corequisite: NURS 278. Restricted to Nursing and Allied Health majors. Branch campuses only.
- NURS 280. Women's Health Issues** 4 cr. (2+6P)  
Consists of lecture and associated clinical/laboratory experiences that focus on the holistic health concerns for women and the care of families expecting birth. Emphasis placed on the wellness of normal and high-risk women's health, including maternal and newborn care. The nursing process will be utilized to develop caring interventions and effective community communication through teaching healthy strategies. Prerequisites: NURS 180 and NURS 185. Corequisite: NURS 275 and NURS 283. Restricted to majors. Branch campuses only.
- NURS 282L. Practicum: Management of Client Care** 1 cr. (3P)  
Organization and delivery of wellness care services for groups of clients based on the nursing process. Prerequisites: NURS 180, NURS 182, and NURS 272. Corequisites: NURS 280. Restricted to majors. Branch campuses only.
- NURS 283. Pediatric Nursing** 4 cr. (2+6P)  
Consists of lecture and associated clinical and laboratory experiences which focus on the care of children from infancy through adolescence including acute and chronic health care problems. Employs nursing process, pathophysiology, pharmacology, and diet therapy through the holistic approach to wellness. Prerequisite: NURS 180. Corequisites: NURS 275, NURS 280. Restricted to majors. Branch campuses only.
- NURS 284. Practicum: Preceptorship** 3 cr. (9P)  
Clinical experience in a leadership role in specific practice areas enhancing the transition from student to practitioner utilizing the holistic approach to wellness. Prerequisites: NURS 182. Corequisites: NURS 270 and NURS 282L. Restricted to majors. Branch campuses only.
- NURS 285. Holistic Approach to Pharmacotherapeutic Intervention III** 1 cr.  
Level III. Holistic approach to the study of basic pharmacology concepts. Includes pharmacodynamic phases of drug interaction. Nursing process is discussed in relation to medication administration. Special emphasis on the role of the nurse and basic concepts related to specific drug categories. Prerequisite: NURS 270. Corequisite: NURS 280. Restricted to majors. Branch campuses only.
- NURS 290. Pathophysiology I** 1-3 cr.  
An introduction to pathophysiologic concepts using a body systems approach. Prerequisite: BIOL 226 or BIOL 254. Branch campuses only.
- NURS 291. Pathophysiology II** 1-3 cr.  
A continuation of materials presented in NURS 290, Pathophysiology I, covering the remaining body systems. BIOL 226 or BIOL 254. Branch campuses only.
- NURS 292. Preceptorship** 1 cr. (3P)  
Clinical experiences in medical/surgical, obstetrics, or pediatrics utilizing the holistic nursing approach to practice and application of nursing process. Transition from student role to practitioner is emphasized. Prerequisite: consent of instructor.
- NURS 301. Principles for Nursing Practice: Theoretical Foundations** 5 cr. (2+6P)  
Principles and theoretical concepts of research-based patient care to meet physiological and psychosocial needs. Includes clinical component. Prerequisites: NURS 303, NURS 326, and NURS 328.
- NURS 302. Foundations of Health Assessments** 3 cr. (2+2P)  
Theoretical basis and skills for biopsychosocial assessment of individuals across the life span. Includes clinical component. Prerequisites: NURS 303, NURS 326, and NURS 328.
- NURS 303. Professional Nursing** 4 cr.  
Uses the nursing process as a framework for providing professional nursing care. Focus on the principles, concepts, theories, and terminology basic to the study of nursing and in the evolution of nursing and nursing education. Restricted to majors.
- NURS 315. Introduction to Professional Nursing for the R.N.** 3 cr.  
Transition course for the R.N. providing an overview of theories and concepts that are the bases for professional nursing practice.
- NURS 320. Psychiatric/Mental Health Nursing** 3 cr.  
Covers concepts of mental health and illness and the nursing implications for persons experiencing psychosocial dysfunction. Prerequisites: NURS 221 and NURS 324. Corequisite: NURS 321, NURS 322, and NURS 326.
- NURS 321. Psychiatric/Mental Health Nursing: Clinical** 3 cr. (6P)  
Nursing process applied to the care of patients experiencing psychosocial dysfunction. Corequisite: NURS 320.
- NURS 322. Nursing Health Assessment** 3 cr.  
Theoretical basis for the biopsychosocial assessment of individual patients across the life span. Prerequisites: NURS 221, NURS 324 and NURS 325. Corequisites: NURS 323.
- NURS 323. Nursing Health Assessment: Clinical** 2 cr. (4P)  
Covers skills and techniques for nursing health assessment. Corequisite: NURS 322.
- NURS 324. Nursing Care of the Older Adult** 2 cr.  
Introduction to aging, health problems and issues associated with aging. Implications for nursing care of the elderly. Prerequisites: NURS 303, NURS 326, and NURS 328 or NURS 326, or admission to RN-BSN (BSNC) Option or admission to Roadrunner BSN (BSNR) Option.
- NURS 325. Human Pathophysiology for Nursing** 3 cr.  
Concepts of alteration and adaptation in structure and function of the human body across the life span.
- NURS 326. Pharmacology in Clinical Nursing Practice** 4 cr.  
Pharmacological concepts and principles and their implications for nursing practice. Includes techniques of dosage calculation for medication and fluid administration. Restricted to majors.

- NURS 327. Drug Dosage Calculations for Nursing 1 cr.  
Techniques of dosage calculation for medication and fluid administration.
- NURS 328. Human Pathophysiology Foundation for Nursing 4 cr.  
Human pathophysiology concepts of adaptation and alteration in function and structure across the life span and their implications for nursing practice. Restricted to majors.
- NURS 337. Foundations of School Nursing 3 cr.  
Orientation to school nursing. Overview of health care in the schools. Qualifications, roles and functions of school nurses. Health needs of diverse school populations, legal mandates for school health, and components of school nursing. Prerequisites: NURS 322, NURS 323. Corequisite: NURS 421 or consent of instructor.
- NURS 370. Medical/Surgical Nursing 6 cr.  
A nursing process approach to the care of adults with medical/surgical nursing problems. Prerequisites: NURS 320 and NURS 321. Corequisites: NURS 371.
- NURS 371. Medical/Surgical Nursing: Clinical 8 cr. (16P)  
Nursing process applied to the care of adults experiencing medical/surgical problems. Corequisite: NURS 370.
- NURS 372. Adult Health Nursing I 8 cr. (4+8P)  
Theoretical basis for select acute and chronic illnesses related to adults is provided, and critical thinking is used to plan nursing care. Includes clinical component. Prerequisites: NURS 301, NURS 302, NURS 324, and NURS 375.
- NURS 373. Nursing the Psychiatric-Mental Health Client 6 cr. (3+6P)  
Theoretical and practical knowledge applied to provision of psychiatric-mental health nursing service across the health care continuum. Includes clinical component. Prerequisites: NURS 301, NURS 302, NURS 324, and NURS 375.
- NURS 374. Psychiatric-Mental Health Nursing 5 cr. (2.5+5 P)  
Focuses on mental health concepts, prevention and mental illness, including application of the nursing process in hospitals and the community. Exploration of cultural concepts included. Clinical and didactic. For Roadrunner students only. Prerequisites: NURS 301 (Principles) NURS 302, NURS 324, NURS 372, and NURS 375.
- NURS 375. Introduction to Nursing Research 3 cr.  
Introduction to scientific inquiry. Evaluation and utilization of nursing research for clinical practice. Prerequisite: E ST 311 or consent of instructor, NURS 303, NURS 326 and NURS 328 or admission to RN-BSN (BSNC) Option or admission to Roadrunner BSN (BSNR) Option.
- NURS 381. Introduction to Holistic Healing 3 cr.  
An experiential seminar; discussion, analysis, and demonstration of a variety of holistic healing techniques. Open to non nursing students.
- NURS 383G. Community and Public Service 3 cr. (2+2P)  
Focus is on students' contribution to the community through volunteering, service, and civic responsibility. Emphasis on social problems using a problem-solving approach and a service-learning theoretical model.
- NURS 384. Meeting Spiritual Needs of Clients 3 cr.  
Examination of the nature of spirituality and the impact on themselves and others.
- NURS 385. Violence in a Healthy Community 3 cr.  
The relationship between anger and aggression as they impact the behavior and health in the community. Community problems and nursing-related concerns addressed using a problem-solving approach.
- NURS 388. Historical Perspectives of American Health Care 3 cr.  
Historical interpretations of health, illness, disease, diagnosis, and treatment. Surveys social history, methods, and studies related to medical science and nursing.
- NURS 397. Special Topics 1-6 cr.  
Specific subjects to be announced in the *Schedule of Classes*. May be repeated for a total of 12 credits.
- NURS 410. Adult Health Nursing II 6 cr. (3+3P)  
Focus is on the use of critical thinking to plan nursing care of adults with selected complex illnesses. Clinical component included. Prerequisites: NURS 372 and NURS 373. Restricted to majors.
- NURS 411. Nursing Care of Children and Adolescents 6 cr. (3+6P)  
Principles basic to nursing care of healthy and ill children from birth through adolescence within the context of the family. Clinical component included. Prerequisites: NURS 372 and NURS 373.
- NURS 412. Nursing Care of Childbearing Women and Their Families 6 cr. (3+6P)  
Theoretical basis and practice skills applied to nursing care of childbearing women and their families. Clinical component included. Prerequisites: NURS 372 and NURS 373.
- NURS 413. Women, Families and the Nursing Process 8 cr. (4+8P)  
Theory and clinical skills applied to children, childbearing women and family units. Clinical and didactic. For Roadrunner students only. Prerequisites: NURS 372 and NURS 374.
- NURS 414. Nursing and the Complex Patient 6 cr. (36P)  
Emphasized critical thinking when nursing patients of adult ages with complex illnesses Integrates nursing and research concepts, ethical, cultural and legal concepts while synthesizing nursing skills with knowledge of pathophysiology, pharmacology and the nursing process. Clinical and didactic components For Roadrunner students only. Prerequisites: NURS 372, NURS 374, NURS 413 and NURS 424.
- NURS 415. Parent-Child Nursing 10 cr. (6+8P)  
Concepts and principles of nursing applied to healthy and ill infants, children, adolescents, and childbearing women within the context of the family. Prerequisites: NURS 372 and NURS 373. Restricted to majors.
- NURS 420. Community Health Nursing 3 cr.  
Concepts basic to the nursing care of families, groups, and communities with an emphasis on health promotion, disease prevention, and health maintenance. Prerequisites: NURS 330 or NURS 370, and NURS 371, and NURS 375 Corequisites: NURS 421 or NURS 426.
- NURS 421. Family-Centered Nursing: Clinical 8 cr. (16P)  
Nursing process applied to the care of children, childbearing women, families, groups, and communities in varied settings. Corequisites: NURS 420, NURS 422, and NURS 423.
- NURS 422. Nursing Care of the Childbearing Family 3 cr.  
Concepts and issues basic to the nursing care of childbearing women and families. Prerequisites: NURS 370, NURS 371, and NURS 375 or consent of instructor.
- NURS 423. Nursing Care of Children 3 cr.  
Concepts basic to the nursing care of healthy and ill children from birth through adolescence within the context of the family. Prerequisites: NURS 370, NURS 371, and NURS 375, or consent of instructor.
- NURS 424. Nursing in the Community 5 cr. (2.5 + 5P)  
Focus on community as the patient with prevention, treatment, education, and research emphasized. Cultural concepts and diversity relating to groups, and communities are included. Clinical and didactic. For Roadrunner students only. Prerequisite: NURS 413.
- NURS 426. Community Health Nursing for the R.N.: Clinical 3 cr. (6P)  
Nursing process applied to the care of families, groups, and communities. Prerequisite: consent of instructor.
- NURS 470. Nursing Organization and Management 3 cr.  
Concepts of organization and delivery of care to groups of patients based on the nursing process. Emphasis on the roles of the nurse as manager, leader, and change agent within health-care organizations. Prerequisite: consent of instructor.
- NURS 471. Nursing Organization, Management, and Delivery: Clinical Preceptorship 6 cr. (12P)  
Nursing process applied to organization, management, and delivery of health care. An integrating experience designed to facilitate the transition from student to professional nurse. Students work with clinical preceptors utilizing the nursing process to provide care for groups of patients/clients. Prerequisite: NURS 426.
- NURS 472. Community- and Population-Focused Nursing 6 cr. (3+6P)  
Synthesis of nursing, social, and public health science to develop health promotion, disease prevention, and protection strategies for communities and populations. Clinical component included. Prerequisites: NURS 410, NURS 411, and NURS 412.
- NURS 474. Preparation for Professional Nursing Practice 3 cr.  
Provides preparation for leadership roles and examines current factors that impact the profession of nursing. Prerequisite: NURS 420 and NURS 421. Corequisite: NURS 471 and NURS 478.
- NURS 475. Issues and Trends in Professional Nursing 3 cr.  
Explores the challenges associated with issues and trends in health care and the legal and ethical implications of professional nursing practice. Restricted to majors.
- NURS 476. Nursing Organization and Management for the R.N.: Clinical 3 cr. (6P)  
Nursing process applied to organization, management, and delivery of health care. An integrating experience for the R.N. student designed to facilitate the transition to professional practice. Students work with mentors in a clinical setting to develop professional nursing roles related to leadership and management. Prerequisites: NURS 420 and NURS 426. Corequisite: NURS 470.

**NURS 479. Nursing Care for Complex Patients** 7 cr. (2+10P)  
Principles and priorities of nursing care for patients across the life span experiencing complex I care problems. Includes integrating experiences designed to facilitate the transition from student to professional nurse. Prerequisites: NURS 410, NURS 411, and NURS 412.

**NURS 480. Nursing Leadership.** 7 cr. (2+7P)  
Integrating management and leadership concepts with preceptorship, this course transitions the student to the professional role. Evaluation of readiness for independent practice is a focus. For Roadrunner students only. Prerequisite: (HESI for Preceptorship) NURS 414.

**NURS 481. Advanced Pharmacology and the Nursing process** 3 cr.  
Advanced concepts and principles of pharmacology and related physiology presented within the context of the nursing process. Prerequisite: consent of instructor.

**NURS 490. Independent Study** 1-3 cr.  
Individual studies with prior approval of department head. Prerequisite: consent of instructor.

#### • O—Occupational Education Courses

Students enrolling in any of the O prefix courses will be advised that they are not intended to replace or substitute for any approved courses which are part of baccalaureate degree programs at New Mexico State University without approval of the appropriate dean and that any request for substitution may be denied. Requests for substitution must be considered on an individual basis by the dean of the college if a student elects to pursue a bachelor's degree.

#### • OCAN—Occupational Education, Computer Animation

The following courses are offered at the branch campuses only.

**OCAN 100. Introduction to 3D computer Animation** 3 cr. (2+4P)  
Learning to work in Maya's 3D environment. Introduction to nodes, scripting, polygons, NURBS and clustered. Working with the dependency graph, modeling, basic animation, character animation, and rendering.

**OCAN 120. Writing and Storyboarding for 3D Animation** 3 cr. (2+4P)  
Learning good writing principles for creating storyboards that communicate the overall picture of the project, timing, scene complexity, emotion, and resource requirements. The final boards are geared towards the student's final project. Prerequisites: OCAN 100 or consent of instructor.

**OCAN 140. Character rigging and Animation** 3 cr. (2+4P)  
Advanced study of skeletal controls and deformers that allow for more creative and directed animation. Further study in kinetics, vectors, set driven keys, lattices, flexors and clusters. Prerequisites: OCAN 100 or consent of instructor.

**OCAN 160. Environmental Modeling, Shading and Lighting** 3 cr. (2+4P)  
Modeling design techniques for creating natural and architecture environments used in animated films and games. Study of various lighting techniques, shading and shadowing, and creating atmospheres and reflections that bring computer generated 3D to life. Prerequisites: OCAN 100 and ART 150 and ART 161.

**OCAN 170. Digital Video Editing** 3 cr. (2+4P)  
Introduction to digital video production, editing techniques and principles, working with Final Cut Pro, multiple DV inputs and creating movies for CD, DVD and web. Prerequisites: OCAN 160 or consent of instructor.

**OCAN 210. Environmental Scene Design** 3 cr. (2+4P)  
Modeling design techniques to create environments and scenes used for animated films and gaming. Investigates both natural and architectural environments to be recreated in the virtual world. Prerequisites: OCAN 100 and OCAN 140 and ART 150 or consent of instructor.

**OCAN 220. Anatomical Character Design** 3 cr. (2+4P)  
Focus on building anatomy-based 3D characters, beginning with clay modeling. Advanced study into the use of NURBS, subdivision surfaces, kinetics, texturing, and dynamic simulation. Prerequisites: OCAN 100 and OCAN 140 and ART 150 or consent of instructor.

**OCAN 230. Personal Character Development** 3 cr. (2+4P)  
Focus on the development of personal characters) from sketch to render. Develop complete biographies of character, including origin, size, weight, personality, likes and dislikes, temperament, movement styles, and even favorite food. Build, skin and animate character with as many of these attributes as possible. Prerequisites: OCAN 100 and OCAN 140 and ART 150 or consent of instructor.

**OCAN 240. Virtual Special Effects** 3 cr. (2+4P)  
Create advanced virtual special effects for both rigid and soft bodies, such as fire, smoke, fog and water, using Maya's MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive textures. Study of integrating computer-generated imagery with real-life video and audio. Prerequisites: OCAN 100 and OCAN 140 and ART 150 or consent of instructor.

**OCAN 287. Personal Animation Development** 3 cr. (2+4P)  
Students choose between producing an original animated short; or research, gather, develop and prepare concepts, models and materials for use in their Final Workshop Project. (Should be taken semester prior to Workshop class. Prerequisite: consent of instructor. May be repeated for a maximum of 6 credits.

**OCAN 290. Advanced 3D Animation Workshop A** 3 cr. (2+4P)  
Program capstone. Utilize the skills learned from the program to produce a final animation. Group integrated projects emulate real-world animation studio environment. Prerequisites: OCAN 100, OCAN 120, OCAN 140, OCAN 160, OCAN 220, OCAN 240 and OCAN 270 or consent of instructor. Corequisite: OCAN 291.

**OCAN 291. Advanced 3D Animation Workshop B** 3 cr. (2+4P)  
Program capstone. Program capstone. Utilize the skills learned from the program to produce a final animation. Group integrated projects emulate real-world animation studio environment. Prerequisites: OCAN 100, OCAN 120, OCAN 140, OCAN 160, OCAN 220, OCAN 240 and OCAN 270 or consent of instructor. Corequisite: OCAN 290.

**OCAN 295. Creating the Demo Reel** 1 cr. (1+1P)  
Personalized creation of a three to five minute demo reel to prepare for seeking employment in the professional animation field. Prerequisites: OCAN 110, OCAN 120, OCAN 140, OCAN 160, OCAN 220, OCAN 240 and OCAN 270 or consent of instructor.

#### • OEAH—Occupational Education, Animal Handling

The following courses are offered at the branch campuses only.

**OEAH 201. Advanced Animal Care and Handling** 3 cr.  
Administration and management, health and science, husbandry, environmental matters, sanitation, safety, and laboratory technologies in the care of animals. Prerequisite: OEAH 101.

#### • OEAM—Occupational Education, Air Mechanics

The following courses are offered at the branch campuses only.

**OEAM 110. Introduction to Aircraft and Power Plant Mechanics** 3 cr.  
Theory and applications of aircraft drawing, materials, maintenance processes, weight and balance, inspection requirements, and ground support functions.

**OEAM 111. Airframe Mechanics** 3 cr.  
Principles and technical procedures relating to airframe structures, systems and components.

**OEAM 112. Power Plant Mechanics** 3 cr.  
Fundamentals of aircraft power plant mechanics to include construction of aircraft power plants, theory of operation, and maintenance concepts.

#### • OEAR—Occupational Education, Heating, Air, and Refrigeration

The following courses are offered at the branch campuses only.

**OEAR 100. EPA Clean Air Act: Section 608** 1 cr.  
Refrigerant certification preparation to include basics of refrigerant bearing equipment, ozone depletion and the new legislation, technician categories covered and the certification examination.

**OEAR 101. Fundamentals of Refrigeration** 4 cr. (3+2P)  
Refrigeration cycle and the various mechanical components. Use of special tools, equipment, and safety precautions.

**OEAR 102. Fundamentals of Electricity** 4 cr. (3+2P)  
Introduction to electricity theory, OHM's Law, circuits, AC/DC, and practical applications.

**OEAR 103. Electrical and Mechanical Controls I** 4 cr. (3+2P)  
Applications of basic electrical and mechanical controls. Reading and drawing diagrams of simple refrigerating equipment. Safe use of testing equipment. Prerequisites: OEAR 101 and OEAR 102, or consent of instructor.

**OEAR 104. Domestic Refrigeration** 4 cr. (3+2P)  
Installation and maintenance of refrigeration systems. Prerequisites: OEAR 101, and OEAR 102, or consent of instructor.