



## Courses

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**AG129 Principles of Livestock Nutrition 3.0 UNITS**  
Corequisite: AG 149/Principles of Animal Science. An introduction to basic livestock nutrition is the emphasis of this course. You will learn the basic anatomy of the digestive system and the process of nutrition. Time is spent learning the origin, chemistry, and feeding value of different feeds, the nutritional requirements of different livestock species, and the theory of practical economics for the maintenance and growth of livestock.

**AG131 Range Management 3.0 UNITS**  
This course emphasizes the principles and practices of grass management to be utilized for resource sustainability, and environmental stewardship. You will gain experience in identifying regional grasses, forbes, and invader plant species. In addition, you will gain knowledge of pasture management practices designed for maximum production and will learn to calculate stocking rates.

**AG149 Principles of Animal Science 3.0 UNITS**  
The principles of animal science are of utmost importance for students interested in a career in any segment of animal agriculture. You will explore the different major production systems of cattle, swine, sheep, poultry, and horses. The production of animal science requires knowledge of the national and world livestock industry, purpose and products of livestock, nutrition, genetics, selection, reproduction, animal health, animal husbandry, marketing, and species.

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diets for the various classes and species of farm livestock. Special emphasis is given to anatomical and physiological differences as they affect the use of particular feedstuffs for each species. Equal class time is devoted to ruminant and monogastric species.

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combination of these techniques scumbling, alla prima, glazing, chiaroscuro, impasto, grisaille, blocking in and blending using brushes, palette knives, and other application techniques. Composition, content, and creativity are major considerations in painting. This course enables the student to feel confident with working with opaque mediums, painting surfaces, stretching canvas, making frames, and introducing mixed media into the composition. The student will be expected to frame and complete each painting to the point where it is "show ready".

AR214                      Ceramics II    3.0 UNITS

Prerequisite: AR111/Ceramics I. If you found peace and satisfaction in Ceramics I, you will enjoy the challenge and freedom of experimentation in this advanced clay class. Whether it be hand-building or wheel throwing, you will be encouraged to work toward a self-initiated exploration of artists, techniques, and styles working in the area of clay. Join us and enjoy the experience of learning, sharing your ideas, and creating with confidence.

AR220                      Projects in Ceramics    3.0 UNITS

Prerequisite: AR111/Ceramics I and AR214/Ceramics II. Take your clay experience to the next level. Join advanced clay students in the creation process; experimenting with various types of clay, concept, and : el onddnd

## Courses

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**BU176**            Personal Finance                            1.0 UNIT

You will gain an overview of financial planning with an emphasis on budgeting, managing credit, debt management, and making purchasing decisions. This course is designed for non-business majors.

**BU178**            Intro to Business    3.0 UNITS

Want to major in business but not sure in which area of business your concentration should be? Want to start a business but not sure how to write a business plan? In this class, you will explore basic areas of business including global markets, business ethics, economic challenges, communication, ownership, E-business, management, leadership, human resources, marketing, technology, accounting, and finance. Putting it all together, you will create a business plan for your choice of business.

**BU179**            eCommerce-Marketing on the Internet 3.0 UNITS

This course studies the concepts of eCommerce and the promotion of a business on the Internet. Web page design and the techniques needed to create an effective web page will be emphasized. Internet marketing techniques such as blogging, newsgroups, and search engine optimization will be explored. Home based internet and e-bay businesses will be analyzed.

**BU212**            Business Communications                                3.0 UNITS

No matter what career into which you want to go, this class will benefit you. Communication is essential in every aspect of life, especially the business environment. In this class we will walk through all aspects of the communication cycle including analyzing your audience, preparing the message, choosing the appropriate channel, and providing feedback. You will compose various business messages including letters, a report, presentation, resume, and cover letter.

**BU217**            Legal Environment of Business                        3.0 UNITS

This course enables the student to receive an overview of the legal system including civil law, criminal law, and the legal environment. The student receives an overview of the court system and how it affects and regulates business. The student reviews current cases and learns to apply a critical thinking approach to the legal system. The student gains knowledge about dispute resolution, white collar crime, ethical responsibility, lease and contract law including the UCC, torts, product liability, and property relationship, including bankruptcy and consumer protection.

**BU220<sup>sd</sup>**            Human Resource Management

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course encourages chemistry knowledge in the context of environmental concerns, health and wellness, technology, and other current issues.

CH176 Fundamentals of Chemistry 5.0 UNITS

You will apply the basic principles, laws, and theories of chemistry. The course is designed for the student needing five or more hours of general chemistry and is recommended if you are a certain student of agriculture, home economics, nursing, biology, and general education.

CH177 Chemistry I w/Lab 5.0 UNITS

Prerequisite or corequisite: MA177/Intermediate Algebra. You will develop a working knowledge of chemical principles for subsequent courses. This course is the first in a two-semester series and is designed for students of chemistry, biological science, pre-pharmacy, pre-veterinary, pre-medicine, pre-dentistry, and medical technology.

CH178 Chemistry II w/Lab 5.0 UNITS

Prerequisite: CH177/Chemistry I. This course is a continuation of Chemistry I in which you will focus on the topics of electrochemistry, thermodynamics, chemical kinetics, chemical equilibrium, and acids and bases. O-Xidilibrium,

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# Courses

- CJ223 Criminalistics 3.0 UNITS**  
In this course the student explores the underlying principles to understand the laboratory procedures of forensic science. The student recognizes the potential value and limitations of evidence recovery and analysis as practiced in laboratory settings. Students participate in simulations and mock crime scene investigation. The student articulates informed opinions about crime scene analysis and investigative response.
- CJ224 Medicolegal Death Investigation 3.0 UNITS**  
Analyze the systems and methods of determining time, cause, and means of death in criminal investigations and trials. The legal and criminalistic concepts and procedures for the medicolegal investigation of death due to natural, accidental, suicidal, or criminal causes are studied. Examine basic concepts of forensic science and crime-solving techniques of establishing identity through human remains.
- CJ227 Victomology 3.0 UNITS**  
This course enables the student the conceptual boundaries and basic concepts and literature of Victimology as a subfield of criminology. The student examines the historical and emerging roles of Victimology and apply personal experiences with the human dimensions of victimization.
- CJ233 Criminal Law & Procedures 3.0 UNITS**  
Learn about the basic court system procedures and the jurisdiction of the courts along with constitutional and other legal requirements that affect law enforcement practices and procedures. Specific topics include confessions and interrogations, identification procedures, arrest, search and seizure, and admissibility of evidence.
- CJ237 Prof Responsibility in Criminal Justice 3.0 UNITS**  
You will explore the major components involved in the study of ethics, particularly as it applies to the field of criminal justice. The focus is on the code of conduct and the ethics of the criminal justice profession and the standards to which they are held in their professional roles. The course aims to produce professionals who are not only critical thinkers but who have the skills necessary to pursue sound ethics in their day-to-day decisions and activities.
- CJ240 Agency Administration and Management 3.0 UNITS**  
You will focus on practical analysis of legal issues, liabilities, modern administration theory, and supervisory management principles and their application to the unique operating problems of criminal justice organizations.
- CJ262 Internship in Criminal Justice 12.0 UNITS**  
You will gain exposure to the work environment and/or apply classroom learning to the worksite as a precursor to future employment.

impression materials. They also learn to take alginate impressions and clean removable appliances.  
**DH100 Dental Radiography 1.0 UNIT**  
 Discuss and apply basic principles of the nature, effects, generation, control, and use of energy rays. Radiation safety, operation of equipment, film use is to

## DENTAL HYGIENE

- DH100 Dental Hygiene Orientation 1.0 UNIT**  
This course assists entering college students adjust to college life and prepares them for success in college and in the work place.
- DH103 Dental Health Safety 1.0 UNIT**  
This course prepares dental auxiliary students to respond proactively to dental emergencies, control infection, prevent disease, adhere to OSHA Standards, and safely manage hazardous materials. Students also take patient vital signs and collect patient medical/dental histories. CPR certification is a prerequisite. Students will be required to show proof of certification before beginning the course. This course is WTCS aligned.
- DH104 Dental Hygiene Process I 2.0 UNITS**  
Introduces dental hygiene students to the basic technical/clinical skills required for practicing dental hygienist including use of basic dental equipment, examination of patients, and procedures within the dental unit. Under the direct supervision of an instructor, students integrate hands-on skills with entry-level critical thinking and problems-solving skills. The course also reinforces the application of Dental Health Safety skills.
- DH105 Dental Materials 1.0 UNIT**  
Prepares dental auxiliary students to handle and prepare dental materials such as liners, bases, cements, amalgam, resin restorative materials, gypsum

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Additional emphasis is placed on biological functions and their relationships to enzymes, proteins, lipids, carbohydrates and DNA.

## DRAMA

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DR120      T



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the rise of more democratic forms of Protestantism. These developments contributed to the Western belief in unlimited human progress and its impact on the rest of the world. However, global war and the rise of totalitarian states and anti-imperialist movements in the twentieth century forced scholars to question the reality and desirability of universal progress. You will conduct an investigation into the impact of the Cold War and the increased globalization

## Courses

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multiple integration, line integrals, curl, divergence, Green's Theorem, surface integrals, Stoke's Theorem, and the Divergence Theorem.

MA245                      Differential Equations                      3.0 UNITS

Prerequisite: MA240/Analytical Geometry & Calculus III. Differential equations explore how to calculate a model based on how a phenomenon is changing over time. You will expand on the ideas from Calculus to model complex

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MU 129            Pep Band II                    1.0 UNIT  
This performing group is open to all qualified wind and percussion players.  
The pep band student helps create school spirit and enthusiasm during  
basketball season.







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NS211 Mental Health Nursing II C

PE268 Varsity Baseball I 1.0 UNIT  
 PE Varsity Sport Class. All varsity athletes must enroll in their sport class to be eligible for participation. Only athletes with their names on the official roster can enroll in the class.

PE272 Varsity Men's Cross Country 1.0 UNIT  
 PE Varsity Sport Class. All varsity athletes must enroll in their sport class to be eligible for participation. Only athletes with their names on the official roster can enroll in the class.

PE273 Varsity Women's Cross Country 1.0 UNIT  
 PE Varsity Sport Class. All varsity athletes must enroll in their sport class to be eligible for participation. Only athletes with their names on the official roster can enroll in the class.

PE276 Varsity Men's Basketball 1.0 UNIT  
 PE Varsity Sport Class. All varsity athletes must enroll in their sport class to be eligible for participation. Only athletes with their names on the official roster can enroll in the class.

PE277 Varsity Women's Basketball 1.0 UNIT  
 PE Varsity Sport Class. All varsity athletes must enroll in their sport class to be eligible for participation. Only athletes with their names on the official roster can enroll in the class.

PE280 Varsity Wrestling I 1.0 UNIT  
 PE Varsity Sport Class. All varsity athletes must enroll in their sport class to be eligible for participation. Only athletes with their names on the official roster can enroll in the class.

PE284 Varsity Men's Track 1.0 UNIT  
 PE Varsity Sport Class. All varsity athletes must enroll in their sport class to be eligible for participation. Only athletes with their names on the official roster can enroll in the class.

PE285 Varsity Women's Track 1.0 UNIT  
 PE Varsity Sport Class. All varsity athletes must enroll in their sport class to be eligible for participation. Only athletes with their names on the official roster can enroll in the class.

PE288 Varsity Volleyball I 1.0 UNIT  
 PE Varsity Sport Class. All varsity athletes must enroll in their sport class to be eligible for participation. Only athletes with their names on the official roster can enroll in the class.

PE295 Varsity Softball I 1.0 UNIT  
 PE Varsity Sport Class. All varsity athletes must enroll in their sport class to be eligible for participation. Only athletes with their names on the official roster can enroll in the class.

PH103 Earth Science w/Lab 5.0 UNITS  
 This course includes three hours of lecture and three hours of laboratory per week. The student explores basic principles of geology, meteorology, and astronomy. The geology portion includes rocks and minerals, erosion processes, plate tectonics, earthquakes, and geologic time. The meteorology portion includes oceans, Earth's atmosphere, atmospheric moisture, pressure, wind, fronts, and storms. The astronomy portion includes the solar system, stars, galaxies, cosmology, and relativity. The student practices these principles in the laboratory. This course is not intended for science majors.

PH176 Physical Science w/Lab 5.0 UNITS  
 This course is a basic introduction to physical science and is intended for students with little or no science background. It will present an integrated approach to topics in physics and chemistry which will include the scientific method, laws of motion, energy, heat and temperature, electricity and magnetism, light, atoms, molecules, chemical reactions, and the atomic nucleus. Laboratory exercises will illustrate the practical applications of the course content.

PH177 Introduction to Geology 5.0 UNITS  
 This course is a basic introduction to geology and is intended for students with little or no science background. It will present an integrated approach to topics in geology which will include the scientific method, plate tectonics, erosion processes, earthquakes, and geologic time. The meteorology portion includes oceans, Earth's atmosphere, atmospheric moisture, pressure, wind, fronts, and storms. The astronomy portion includes the solar system, stars, galaxies, cosmology, and relativity. The student practices these principles in the laboratory. This course is not intended for science majors.

PHYSICAL EDUCATION

PK100 PE Skill General Education 1.0 UNIT  
 Physical Education Skill General Education Transfer Credit

PHYSICAL EDUCATION

PL100 PE Lifestyle General Education 1.0 UNIT  
 Physical Education Lifestyle General Education Transfer Credit

PHYSICAL SCIENCE

PH101 Our Physical World (w/Lab) 5.0 UNITS  
 Our Physical World is a course for those of you who have little to no previous physical science experience. You will develop a conceptual understanding of the themes of physics such as Newton's Laws, momentum, energy, gravity, and the mechanics of orbital motion followed by fluids, heat, and electricity. You will also explore the nature of sound and light as well as atoms and the source of atomic energy. Ample laboratory activities are included right within the weekly lessons.

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PH227 General Physics II w/Lab 5.0 UNITS

Prerequisite: PH207/General Physics I. General Physics II is the second of two introductory, algebra-based physics courses most often taken by those of you who major in biology, environmental science, or who intend to become a health professional. PH227 is similar to PH228 in regard to content and importance. Prerequisites between nPHre nP level rf na PH cs rse d

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## Courses

is necessary to be confident practice while emphasizing delivery skills to develop as a competent speaker.

## VETERINARY NURSING

**VM101 Pre-Vet Medicine Orientation 1.0 UNIT**  
You will discover career opportunities available to veterinarians within the fast-paced field of veterinary medicine and learn about applying to a college of veterinary medicine. You will also be introduced to campus resources available to students and learn about basic personal finance.

**VM108 Obedience Training 1.0 UNIT**  
Prerequisite: Current standing as a student in the On-Campus Veterinary Nursing Program. You will practice training dogs basic obedience commands and will be introduced to showmanship skills.

## VETERINARY NURSING

**VN115 Introduction to Veterinary Nursing 1.0 UNIT**  
You will discover career and degree opportunities available within the fast-paced field of veterinary nursing. You will also be introduced to campus resources available to students and will learn about basic personal finance.

**VN119 Breeds of Domestic Animals 1.0 UNIT**  
Have you ever wondered what breed a dog was or why a horse cribs? You can learn to recognize all breeds of dogs recognized by the American Kennel Club, cat breeds approved by the Cat Fanciers Association, and common breeds of horses, cattle, sheep, goats, and swine. In addition, you will learn about some common domestic animal behaviors, both normal and abnormal.

**VN120 Animal Facility Management I 1.0 UNIT**  
Prerequisite: Current standing as a freshman in veterinary nursing. You will apply experience and practice techniques in-hospital team interactions including care of animals, walking dogs, sanitation of animal facilities, and feeding of animals.

**VN121 Medical Records & Vet Office Skills 2.0 UNITS**  
Have you ever wondered how a veterinary practice operates? You will learn the legal aspects of medical record-keeping and the business aspects of veterinary practice including ethical and legal considerations, client communications, public relations, accounting, scheduling, records management, and telephone skills. You will also gain exposure to computer applications including spreadsheets and veterinary office management software while learning how to document physical exam findings in medical records.

**VN122 Anatomy and Physiology for Vet Nurses 4.0 UNITS**  
Prerequisites: AG149/Principles of Animal Science; and BI100/General Biology w/Lab, BI177/ Biology I w/Lab, or BI179/Biology II w/Lab; and CH176/Fundamentals of Chemistry w/Lab or CH177/Chemistry I w/Lab. You will learn the fundamentals of comparative anatomy in domestic animal species with an emphasis on identifying anatomical regions and landmarks. You will also learn the general physiology of major body systems in domestic animals.

**VN123 Basic Nutrition of Domestic Animals 1.0 UNIT**  
Prerequisite: AG149/Principles of Animal Science. Prerequisite or Co-requisite: VN122/Anatomy and Physiology for Veterinary Nurses OR VN140/Anatomy and Physiology of Domestic Animals. There is more to animal nutrition than most people understand. You will learn how to evaluate and feed for livestock effectively and critically. This will include proper feed selection, nutritional aspects of the disease, and therapeutic intervention for both small and large animals, and client education.

**VN124 Career Preparation 1.0 UNIT**  
You will develop the skills necessary to prepare for mentorship and veterinary clinical experience positions under the supervision of a licensed veterinarian. You will be a credentialed veterinary nurse for the upcoming semesters. You will learn how to search for a position, practice writing a resume and cover letter, and prepare for a job interview. You will also learn about the employer-employee relationship, veterinary laws and ethics, euthanasia, and grief.

**VN126 Veterinary Medical Terminology 1.0 UNIT**  
Have you ever wished you could understand the medical jargon used by veterinarians and veterinary nurses? Now you can! In this class, you will learn a new language in veterinary medicine. You will learn the basic words used in veterinary medicine. You will learn the basic words used in veterinary medicine. You will learn the basic words used in veterinary medicine.

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VN260 Large Animal Nursing 1.0 UNIT  
Prerequisites: VN130/Veterinary Clinical Procedures, VN131/Veterinary Clinical Procedures Laboratory, and current standing as a fall semester sophomore in veterinary nursing. You will gain hands-on experience with a variety of large animal veterinary nursing skills.

VN261 Advanced Large Animal Nursing 1.0 UNIT  
Prerequisites and/or Co-requisites: VN230/Large Animal Medicine and Surgery and VN260/Large Animal Nursing, and current standing as a fall semester sophomore in veterinary nursing. Want a deeper dive into large animal nursing? Then, this course is for you! You will gain additional hands-on experience with you e taste



