



# Catalog Supplement

## 2021-2022

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## Table of Contents

<b>Course Descriptions</b> .....	3
<b>Errata</b> .....	15

# Course Descriptions

(Updates, Deletions, New)

Please see the 2021-2022 Academic Catalog or [www.bhc.edu/academics/catalog](http://www.bhc.edu/academics/catalog) for course descriptions not listed below.

## COURSE UPDATES

### Effective Aug 2021

Published August 1, 2021

#### ~~ACCT 250 Federal Income Tax I~~ **Federal Income Tax**

**4 cr. hrs.;** 3 lecture hours; 2 lab hours per week.

*Prerequisite:* ACCT 101 & 103 "C" or better; or ACCT 180 & 181 "C" or better; or instructor consent.

Introduction to the federal income tax system and its laws and regulations applicable to individuals and businesses, including the preparation of paper and electronic tax returns. (1.2)

#### **AG 100 Introduction to Agriculture**

**1 cr. hr.;** 1 lecture hour; 0 lab hours per week.

A study of agriculture in our modern society. Emphasis on leadership development, educational goals and employment opportunities. Brief orientation to the College and agriculture division. ~~(1-2)~~ (1.1)

#### **AG 138 Crop and Soil Mngt**

**3 cr. hr.;** ~~3~~ 2 lecture hours; ~~0~~ 2 lab hours per week.

~~Provides students an opportunity to gain experience in advanced crop and soil management. An emphasis will be placed on new technology and products that have been implemented into crop production. The application of geographical information systems and global positioning equipment in crop production and soil management will also be covered. This course provides students with an opportunity to gain experience in advanced crop and soil management. An emphasis will be placed on new technology and products that have been implemented into crop production. The application of geographical information systems and global positioning equipment in crop production and soil management will also be covered.~~ (1.2)

#### **AG 139 Crop and Soil Evaluation 2**

**1 cr. hr.;** 1 lecture hour; 0 lab hours per week.

*Prerequisite:* AG 138 or instructor consent.

Provides students an opportunity to gain experience in evaluating crops and soils. Selection will be based on marketing and/or production standards. A continuation of AG 138. (1.2)

#### **ART 101 2-Dimensional Design**

**3 cr. hrs.;** 0 lecture hours; 6 lab hours per week.

~~Open to all students. Fundamentals of two-dimensional design. Students learn basic elements and principles of visual design through the completion of a wide variety of two-dimensional projects. Emphasis on terminology, problem-solving and craftsmanship. Students learn basic elements and principles of visual design through the completion of a wide variety of two-dimensional projects. Emphasis on color theory, terminology, problem-solving and craftsmanship.~~ (1.1)

#### **ART 111 3-Dimensional Design**

**3 cr. hrs.;** 0 lecture hours; 6 lab hours per week.

~~Open to all students. Fundamentals of three-dimensional design, utilizing a variety of materials. Projects examine these materials and probe the elements and principles of design as they relate to sculptural form. Emphasis on terminology, problem-solving and craftsmanship. Fundamentals of three-dimensional design are covered, utilizing a variety of materials. Projects examine these materials and probe the elements and principles of design as they relate to sculptural form, with an emphasis on terminology, problem-solving and craftsmanship.~~ (1.1)

#### **ART 121 Drawing I**

**3 cr. hrs.;** 0 lecture hours; 6 lab hours per week.

~~Study of basic drawing techniques using traditional drawing media such as pencil, ink, charcoal and ink wash. Concentration on composition, craftsmanship, and observational drawing. Study of basic drawing techniques using traditional drawing media such as pencil, ink, charcoal and ink wash. Emphasis is placed on the development of effective compositions, observational drawing skills, exploration of various drawing media and presentation of work. Course includes vocabulary development, critical analysis activities, and reference to contemporary and historic models of drawing.~~ (1.1)

#### **ART 122 Drawing II**

**3 cr. hrs.;** 0 lecture hours; 6 lab hours per week.

*Prerequisite:* ART 121 "C" or better; or instructor consent. ~~Emphasis on color and expressions in composition utilizing various drawing media such as pastels, colored pencils, ink, and other traditional drawing media. Students will continue to build on observational drawing skills with emphasis on color and self-expression. Various drawing media will be utilized, such as soft pastels, oil pastels, pen and ink, watercolor and other traditional drawing media.~~ (1.1)

### **ART 200 Art Problems**

~~1-3 cr. hrs.;~~ 1-3 lecture hours; 0-3 lab hours per week.  
~~1-3 cr. hrs.;~~ 0-3 lecture hours; 1-6 lab hours per week.

Topic varies each semester; designed to provide workshops on new topics as needed. Each workshop may emphasize a different medium, provide practical experience with techniques or processes, or explore a special area of art history or appreciation. Examples of courses offerings include: digital portfolio, cartooning, or gender in art history. No more than 3 semester hours of this course may be applied toward a degree. (1.1)

### **ART 201 Life Drawing**

**3 cr. hrs.;** 0 lecture hours; 6 lab hours per week.

~~Prerequisite: ART 121 or instructor consent.~~ ART 122 "C" or better; or instructor consent

~~Basic figure drawing skills with emphasis on various media and individual approaches. An appreciation of the human form through the study of human anatomy and structure. The development of figure drawing skills with emphasis on scale and proportion, value and modeling using various media, techniques and individual approaches. An appreciation of the human form through the study of human anatomy and structure.~~ (1.1)

### **ART 211 Painting**

**3 cr. hrs.;** 0 lecture hours; 6 lab hours per week.

~~Prerequisite: ART 101 or instructor consent.~~ ART 101 "C" or better; or instructor consent.

~~Study of the fundamentals and media of painting. Practical application emphasized in water based media and ground preparations with introduction to other paint media. ART 211 is a beginning level painting class where students will learn the technical craft of painting. Students will gain experience with painting mediums in acrylic paint. Other painting media will be used as time allows. Emphasis will be placed on the technical aspects of painting, attention to 2-D design concepts, color theory and planning and execution of a painting.~~ (1.1)

### **ART 212 Advanced Painting**

**3 cr. hrs.;** 0 lecture hours; 6 lab hours per week.

~~Prerequisite: ART 211~~ ART 211 "C" or better; or instructor consent.

~~Advanced study of the technique, media, and compositional methods of painting. Individual media research and expression stressed. Students will build additional technical skills in painting. Students will gain experience with painting mediums in acrylic paint or other painting media as permitted. Emphasis will be placed on advanced techniques and personal expression, series research and development. Students will be challenged to develop their ability to critique work and articulate the ideas behind their work.~~ (1.1)

### **BE 153 Warehouse Management Systems**

**2 cr. hrs.;** 2 lecture hours; 0 lab hours per week.

~~Prerequisites: BE 110 and BE 141 or instructor consent.~~

~~This course will introduce the students to software used in~~ This course will introduce the students to software used in warehouse operations. Topics include functions and

capabilities of Warehouse Management System (WMS) software, WMS software selection, and hands-on use of WMS software. (1.1)

### **CHEM 206 Basic Biochemistry**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

~~Prerequisite: CHEM 203~~ CHEM 102 "C" or better; or instructor consent.

Introduction to structure and chemistry of proteins, carbohydrates, lipids, nucleic acids and enzymes, metabolism and related areas of nutrition, drugs, genetics, and tissue interaction. (1.1)

### **COMM 105 Essentials of English**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

~~Prerequisite: Appropriate placement score; or Academic ESL Coordinator consent; or ENG 091 or ENG 100, "C" or better.~~

~~COMM 105 reviews grammar, punctuation, usage and sentence structure and organizational principles of writing through a variety of tasks. COMM 105 is a review of key concepts in writing. Students review grammar, sentence structure and punctuation and apply their knowledge of these skills by completing a variety of writing assignments on several topics and disciplines. The major objective of Communications 105 is to help students write clearly, correctly, and confidently, so they will succeed in other college courses and in their professions.~~ (1.2)

### **CIP 214 C# Programming C Programming**

**4 3 cr. hrs.;** 4 2 lecture hours; 0 2 lab hours per week.

~~Prerequisites: CS 101, CS 121 or CIP 104. Concurrent enrollment in CIP 227 or BE 264.~~

~~This course uses the C# programming language to create, GUI-based (Windows) applications, applying effective development strategies based on object oriented programming. Topics include: forms and controls, input validation, dialog boxes, events, array processing, classes, text file processing, structures, enumerated lists, and applications with multiple forms. The student will learn to write programs using the C programming language for applications in engineering and cybersecurity.~~ (1.2)

### **CS 227 Database Management Systems**

**3 cr. hrs.;** 3 lecture hours; 0 lab hour per week.

~~Prerequisite: CIP 101 or CS 101 or CIP 104 or CS 105 or CS 121.~~ CIP 101 or CS 105 or CS 121.

This course provides the student with database system concepts. Topics introduced include: conceptual, logical and physical designs, Entity Relationship (ER), ER diagramming, ER mapping, normalization, SQL, core DBMS functions, transaction management, triggers, views, stored procedures, and indexes. Several types of database systems will be reviewed with the focus of study on relational database systems. Students will design and build databases using SQL Server. (1.1)

### **ECE 201 Health, Safety & Nutrition**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week

*Prerequisites: REA 098 and ENG 091 "C" or better; or appropriate placement score.*

~~This course is a study of a variety of informal and formal observation and assessment techniques used in early childhood classrooms and how to use the information to inform the instructional process. Legal, ethical and external factors on assessment will be covered along with appropriate strategies for engaging families in the assessment process. 60 hours of lab work will be required in a licensed early childhood setting. A current physical, TB test, background check, and/or fingerprinting may be required. This course provides an overview of the health, safety and nutritional needs of young children and early childhood practices to ensure children's health and well-being in group settings. Content includes roles and responsibilities of adults in meeting children's diverse needs, the promotion of healthy life style practices, understanding common childhood illnesses and injuries, meeting health, nutrition and safety standards, and planning culturally and nutritionally appropriate meals in a variety of early childhood settings. A current physical, TB test, background check, and/or fingerprinting may be required.~~ (1.2)

### **ECE 203 Curricu for Early Child Prog**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

*Prerequisites: REA 098 and ENG 091 "C" or better; or appropriate placement score.*

~~The principles involved in planning, implementing and evaluating developmentally appropriate curriculum for young children. The course focuses on relationships among developmental theory, philosophy, and practice. Development of curriculum based on the needs and interests of young children including those who are culturally, linguistically, and ability diverse. The analysis of a wide range of early childhood curriculum models is emphasized. This course studies the principles involved in planning, implementing and evaluating developmentally appropriate curriculum for young children. The course focuses on relationships among developmental theory, philosophy, and practice. Development of curriculum based on the needs and interests of young children including those who are culturally, linguistically, and ability diverse. The analysis of a wide range of early childhood curriculum models is emphasized. 10 hours of supervised experience in a licensed early childhood program will be required during the semester. A current physical, TB test, background check and/or finger printing may be required.~~ (1.2)

### **ENGT 231 ~~Lathe Operations~~ CNC Lathe Setup and Operation**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

*Prerequisite: ENGT 180 "C" or better or instructor consent. ENGT 186*

~~In this manufacturing processes course, the student will learn about lathe operations. Topics include lathe geometry, spindle and quick change gearing, saddle controls and power feeds, cross slide and compound slide plus gibbing, backlash compensation, chucks and collets, turning, grinding,~~

~~sharpening, honing, tool height and angle adjustment, and speeds and feeds. This manufacturing course covers the setup and operation of a Computer Numerical Control (CNC) turning center. Topics include tooling, work-holding devices, setup documentation, tool compensations. Upon completion, the student will be able to setup and operate a CNC turning machine to produce a simple part. Shop safety and quality principles are given special emphases throughout the course.~~ (1.2)

### **ENGT 280 ~~Quality Issues in Machining~~ Precision Measurement**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

~~This manufacturing processing course will focus on the inspection, measurement, and quality control issues that arise during the manufacturing process. Descriptive statistics will be used, covered and applied to manufacturing processing applications. This course covers the use of precision measuring instruments. Emphasis is placed on the inspection of machined parts and use of a wide variety of measuring instruments. Upon completion students should be able to demonstrate correct care and use of measuring instruments. The course also includes an introduction to statistical process control.~~ (1.2)

### **ENGT 283 ~~Advanced Machining Operations~~ GD&T Interpretation**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

*Prerequisites: ENGT 231 and ENGT 232 "C" or better -ENGT 101*

~~This course provides further instruction in the operation of lathes, mills, and inspection procedures. Topics include lathe and milling projects requiring heat treatment and post treatment grinding, setup and operation of surface grinders, inspection and measurement issues. This course is designed to give the student a working knowledge of applied GD&T and the understanding of how it relates to machining. Shop safety and quality principles are given special emphases throughout the course.~~ (1.2)

### **ECE 299 ~~Indep Study Workshops/Seminars~~ Indep Study Early Childhood Ed**

**1-4 cr. hrs.;** 1-4 lecture hours; 0 lab hours per week.

*Prerequisite: Instructor consent.*

This course is designed to fit the needs of each student. Workshop and seminars may be offered for credit under ECE 299. (1.2)

### **EMS 100 EMT-Basic**

**8 cr. hrs.;** 6 lecture hours; 4 lab hours per week.

*Prerequisite: At least 18 years of age; high school diploma or GED; REA 098, MATH 081 & ENG 091 or appropriate placement score; or approval of EMS program director. Concurrent enrollment in EMS 102 Student is at least 18 years of age; high school diploma or GED; MATH 078 or appropriate placement score; or consent of EMS program director. Concurrent enrollment in EMS 102.*

~~Prepares individuals to provide basic emergency care at the scene of an accident or illness and to stabilize and transport the patient to a facility providing definitive healthcare. The course~~

will include the treatment of common medical emergencies and trauma injuries as well as the roles and responsibilities of emergency medical technicians (EMT-B). Upon satisfactory completion of the EMS 100 and EMS 102 courses, the student will be eligible to take the state EMT-BT or the National Registry Exam. Prepares individuals to provide basic emergency care at the scene of an accident or illness and to stabilize and transport the patient to a facility providing definitive healthcare. The course will include the treatment of common medical emergencies and trauma injuries as well as the roles and responsibilities of emergency medical technicians (EMT-B). Upon satisfactory completion of the EMS 100 and EMS 102 courses, the student will be eligible to take the National Registry Exam. (1.2)

### **EMS 110 Paramedic Theory I**

**7 cr. hrs.;** 6 lecture hours; 2 lab hours per week.

*Prerequisite: EMS 100 & 102 or equivalent; current Illinois EMT Basic License or hold NREMT Basic certification with eligibility for Illinois EMT Basic License; REA 098, MATH 081 and ENG 091 or appropriate placement score or approval of EMS program director. Concurrent enrollment in EMS 114. EMS 100 and 102; student holds current Illinois EMT Basic Licensure or NREMT-Basic certification with eligibility for Illinois EMT Basic Licensure; MATH 078 or appropriate placement score; COMM 100 or ENG 101; or consent of EMS program director. Concurrent enrollment in EMS 114.*

Prepare individuals to complete preparation for paramedic certification. This eight-week course includes the roles and responsibilities of the paramedic, blood borne pathogens, documentation & communication in EMS, medical records & HIPPA policies, Medical/Legal/Ethical considerations, anatomy and physiology of cells, tissues, muscular system, respiratory and cardiovascular systems, techniques for administration of medications and fluid resuscitation and an in-depth look at assessment and interventions for respiratory and cardiovascular conditions. Cardiac electrophysiology and EKG interpretation are also included. (1.2)

### **EMS 112 Paramedic Theory II**

**8 cr. hrs.;** 7 lecture hours; 2 lab hours per week.

*Prerequisite: EMS 110 "C" or better and a current CPR card (Healthcare Provider). Concurrent enrollment in EMS 114. EMS 110 "C" or better; current CPR card (Healthcare Provider). Concurrent enrollment in EMS 114.*

Prepare individuals to complete preparation for paramedic certification. This eight week course includes a variety of medical and surgical emergencies as well as emergency conditions related to the cardiac, respiratory, neurological, skeletal and integumentary systems. Advance Cardiac Life Support Certification will be included. Traumatic injuries including assessments, interventions and certification in International Trauma Life Support will be provided. Prepare individuals to complete preparation for paramedic certification. This eight-week course includes a variety of medical and surgical emergencies as well as emergency conditions related to the cardiac, respiratory, neurological, skeletal and integumentary systems. Advance Cardiac Life Support Certification will be included. Competency in

*traumatic injuries include assessments, interventions, and certification in International Trauma Life Support. (1.2)*

### **EMS 114 Paramedic Clinical I**

**3 cr. hr.;** 0 lecture hours; 9 lab hours per week.

*Prerequisite: Concurrent enrollment in EMS 110 and 112. Concurrent enrollment in EMS 110 and 112; Current AHA CPR card (Healthcare Provider).*

The student in this course will have field and clinical experiences under the direction of experienced qualified preceptors. The student is required to complete a minimum number of hours in assigned environments. This includes fifty-two hours in the Emergency Department, sixteen hours in a critical care/intensive care unit, four hours with cardiopulmonary/respiratory therapy staff, and twelve hours in the operating room/surgery, two hours in the Cardiac Cath lab, two hours at the Burn/wound Center and 50 hours of field (ambulance) experience. This course is designed to augment each phase of the didactic material presented in EMS 110: Paramedic Theory I and EMS 112: Paramedic Theory II. The student in this course will have field and clinical experiences under the direction of experienced qualified preceptors. The student is required to complete a minimum number of hours in assigned environments. This includes fifty-two hours in the Emergency Department, sixteen hours in a critical care/intensive care unit, four hours with cardiopulmonary/respiratory therapy staff, and twelve hours in the operating room/surgery, two hours in the Cardiac Cath Lab, two hours at the Burn/Wound Center and 50 hours of field (ambulance) experience. This course is designed to augment each phase of the didactic material presented in EMS 110: Paramedic Theory I and EMS 112: Paramedic Theory II. (1.2)

### **EMS 210 Paramedic Theory III**

**7 cr. hrs.;** 6 lecture hours; 2 lab hours per week.

*Prerequisite: EMS 110 and EMS 112 "C" or better, EMS 114 with a pass grade, and a current CPR card (Healthcare Provider). Concurrent enrollment in EMS 214. EMS 110 and EMS 112 "C" or better; EMS 114; and a current AHA CPR card (Healthcare Provider). Concurrent enrollment in EMS 214*

Prepare individuals to complete preparation for paramedic certification. This eight-week course includes a variety of medical emergencies including assessment and management related to shock & resuscitation, fluid and electrolyte imbalance, hematology & blood disorders, endocrine disorders, immunology/anaphylaxis, gastrointestinal disorders, genitourinary disorders, toxicology/poisoning, infectious diseases, psychiatric/behavioral emergencies, drug and alcohol abuse, obstetrics, and newborn care. (1.2)

### **EMS 212 Paramedic Theory IV**

**7 cr. hrs.;** 6 lecture hours; 2 lab hours per week.

*Prerequisite: EMS 210 "C" or better and concurrent enrollment in EMS 214. EMS 210 "C" or better; current AHA CPR card (Healthcare Provider). Concurrent enrollment in EMS 214.*

Prepares individuals to complete preparation for paramedic certification. This eight week course includes a variety of emergency responses and management related to neonatal

~~resuscitation, the care of the pediatric patient, certification in Pediatric Advanced Life Support, adult lifespan development, care of the geriatric patient, sensory impairments, home care, domestic violence, abuse and assault of children and adults, care of patients with special challenges, EMS research, cultural care, hazmat awareness, workforce safety and wellness, stress management, multiple casualty incident, rescue triage, incident management, terrorism and disasters, and summative evaluations.~~ Prepares individuals to complete preparation for paramedic certification. This eight-week course includes a variety of emergency responses and management related to neonatal resuscitation, the care of the pediatric patient, certification in Pediatric Advanced Life Support, adult lifespan development, care of the geriatric patient, sensory impairments, home care, domestic violence, abuse and assault of children and adults, care of patients with special challenges, EMS research, cultural care, HazMat awareness, workforce safety and wellness, stress management, multiple casualty incident, rescue triage, incident management, terrorism and disasters, and summative evaluations. (1.2)

### **EMS 214 Paramedic Clinical II**

**4 cr. hrs.;** 0 lecture hours; 12 lab hours per week.

~~Prerequisite: Concurrent enrollment in EMS 210 and EMS 212. Current AHA CPR card (Healthcare Provider); Concurrent enrollment in EMS 210 and EMS 212.~~

~~The student in this course will have field and in-hospital experiences under the direction of experienced preceptors. The student is required to complete a minimum number of hours of experience. This includes 52 hours in the Emergency Department, 16 hours in a critical care/intensive care unit, 4 hours with cardiopulmonary/respiratory therapy staff, 12 hours in the operating room/surgery, 16 hours in Obstetrics and Neonatal units, 16 hours in the pediatric units, 16 hours in the psychiatric units, and 2 hours in the dialysis center and 50 field hours. This course is designed to augment each phase of the didactic material presented in EMS 110, 112, 210, & 212. This course is also designed to act as a continuum of clinical/field experience from EMS 114. The student in this course will have field and in-hospital experiences under the direction of experienced preceptors. The student is required to complete a minimum number of hours of experience. This includes 68 hours in the Emergency Department, 16 hours in a critical care/intensive care unit, 4 hours with cardiopulmonary/respiratory therapy staff, 12 hours in the operating room/surgery, 16 hours in Obstetrics and Neonatal units, 16 hours in the psychiatric units, and 50 field hours. This course is designed to augment each phase of the didactic material presented in EMS 110, 112, 210, & 212. This course is also designed to act as a continuum of clinical/field experience from EMS 114. (1.2)~~

### **EMS 216 Paramedic Clinical III**

**5 cr. hrs.;** 0 lecture hours; 15 lab hours per week.

~~Prerequisite: EMS 210 and EMS 212 "C" or better and EMS 214 with a pass grade.~~ EMS 210 and EMS 212 "C" or better; EMS 214; current AHA CPR card (Healthcare Provider).

The student in this course will have advanced field level experiences under the direction of qualified, experienced

preceptors. During this course the student will continue field hours until a minimum of 300 hours has been reached within the program with an ambulance service under the direction of assigned preceptors. This course is competency based, and may result in the extension of clock hours to meet all clinical/field competencies & objectives. (1.2)

### **ENGT 232 Milling Operations CNC Mill Setup and Operation**

**3 cr. hrs.;** 2 lecture ours; 2 lab hours per week.

~~Prerequisite: ENGT 186~~

~~In this manufacturing processes course, the student will learn about vertical and horizontal milling. Topics include milling machine geometry, gear boxes and power feeds, correct use of spindle hand feed, correct cutter rotation for uphill milling and downhill milling and when to use each, spindle speeds and feeds, use of parallel vises, work piece clamping, alignment of vise with machine table, and backlash compensation. This manufacturing course covers the setup and operation of a Computer Numerical Control (CNC) machining center. Topics include tooling, work-holding devices, setup documentation, tool compensations. Upon completion, the student will be able to setup and operate a CNC machining center to produce a simple part. Shop safety and quality principles are given special emphases throughout the course. (1.2)~~

### **ENGT 236 Intermediate CNC-CNC Manual Programming**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

~~Prerequisite: ENGT 186 "C" or better. ENGT 231 and ENGT 232~~

~~This second course in CNC operations will expand to the student programming and operations of the CNC lathe and vertical milling machines. Topics will include programming formats, canned cycles, cutter compensation, and auxiliary machine control functions. Manual programming procedures for Computer Numerical Control (CNC) machining centers and turning centers. Includes positioning and coordinate systems, part programming, tooling selection, diagnosis and correction of programming errors, and finished part inspection. (1.2)~~

### **ENG 091 Writing Fundamentals**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

~~ENG 091 emphasizes strategies for organization and development of paragraphs and short essays and focuses on improving grammar and writing skills for academic writing.~~

English 091 emphasizes strategies for organization and development of paragraphs and short essays and focuses on improving grammar, writing, and independent-learning skills for academic writing. (1.4)

### **ENG 101 Composition I**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

~~Prerequisite: Writing = Appropriate placement scores in writing; or academic ESL Coordinator consent; or ENG 091 "C" or better; or COMM 105 "C" or better; or ENG 100 "C" or better; or concurrent enrollment in ENG 100~~

~~AND Reading = Appropriate placement score in reading; or REA 103 "C" or better; or concurrent enrollment in REA 103.~~

~~The first of two courses in the one-year composition sequence, English 101 introduces students to college-level writing as a process of developing and supporting a thesis in an organized essay. English 101 requires students to read and think critically, and it emphasizes using appropriate style and voice as well as the conventions of standard English and citation. The first of two courses in the college's composition sequence, English 101 introduces students to process-oriented writing and provides students with a variety of inventional, organizational, and editorial strategies to utilize in various writing contexts. Through diverse writing assignments, including at least one research-based essay demonstrating the ability to select, evaluate, document, and interact effectively with sources, students will engage with topics in which they will explore writing as a means of self-discovery and effective communication of ideas, and they will produce texts that inform and persuade the reader of the writer's aims through clear and effective support. English 101 requires students to read and think critically, and it emphasizes using appropriate style and voice as well as the conventions of standard English and academic citation. IAI: C1 900 (1.1)~~

### **ENG 102 Composition II**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

*Prerequisite: English 101 "C" or better.*

~~English 102 is the second of two courses in the one-year composition sequence. English 102 continues exposing students to college-level writing by developing and supporting a thesis in persuasive papers. English 102 requires students to read and think critically and to apply documentation and research skills to a multi-sourced academic research writing assignment. The second of two courses in the one-year composition sequence, English 102 continues cultivating students' skills in process-oriented writing. It requires students to read, think, and write critically, emphasizing analytical and persuasive writing. Students will critique a variety of texts effectively, including academic discourse, and they will complete a documented, multi-source project in one or two papers for a combined final draft total of at least 2,500 words. IAI: C1 901R (1.1)~~

### **ENG 219 ~~Asian Lit in Translation~~ Asian Literature**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

*Prerequisite: ENG 101 "C" or better.*

~~ENG 219 includes reading and analysis of representative works of Asian Literatures. It emphasizes one or more of these areas: Asia, The Asian Subcontinent, the Middle East, and it satisfies the non-western requirement. ENG 219 is an introductory course in Asian literature written in English or in translation. Students read, discuss, analyze, and write about works from a variety of periods and social contexts from one or more of these areas: Asia, the Asian subcontinent, and/or the Middle East. The emphasis is on literary interpretation and analysis of poetry, drama and fiction. The course satisfies the college's Non-Western graduation requirement. IAI: H3 908N (1.1)~~

### **ENG 232 Poetry Writing**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

~~ENG 232 will explore the structure and elements of poetry and the writing process; students will produce fully developed works of poetry, and demonstrate an understanding of the critical terminology of the creative writer. (1.1) ENG 232 will explore the structure and elements of poetry and the writing process; students will produce fully developed works of poetry and demonstrate an understanding of the critical terminology of the creative writer. (1.1)~~

### **EQ 154 Horse Equipment & Facilities**

**3 cr. hrs.;** 3 2 lecture hours; 0 2 lab hours per week.

Students will learn principles of planning for equine facilities, design and construction. Students will also learn to recognize, evaluate and select a variety of horse equipment. (1.2)

### **GE 101 Engineering Graphics/Geometry**

**3 cr. hrs.;** 1 lecture hour; 4 lab hours per week.

~~Prerequisite: Math 124 or concurrent enrollment in Math 118, or instructor consent. MATH 116 or MATH 118; or instructor consent.~~

Introduction to basic graphing concepts including use of equipment, orthographic projection, geometric construction, and pictorial representation. Applications of orthographic projection of the engineering design process, introduction to computer-aided graphing using personal computers. IAI: EGR 941 (1.1)

### **HIST 200 African-American History**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

*Prerequisite: HIST 105 or HIST 106 recommended.*

This course is a survey of the major themes, issues, events, and debates in African-American history from African roots to the present. IAI: S2 923D (1.1)

### **HONR 200 Honors Seminar**

**1 cr. hrs.;** 1 lecture hours; 0 lab hours

HONR 200 prepares students to participate in the Honors Program and complete the required academic research-based Independent Study project(s) and service project needed to fulfill requirements of the Honors Program. The class will focus on topics and skills related to leadership and academic research.(11)

### **HONR 205 Honors Independent Study**

**1-3 cr. hrs.;** 0-3 lecture hours; 0-9 lab hours

*Prerequisite: HONR 200 "C" or better or instructor consent.*

HONR 205 is the Independent Study course designed for students to fulfill the required academic research-based Independent Study project(s) requirements of the Honors Program. The student will work closely with an instructor within their research area to do academic research and produce a project related to their chosen topic. (1.1)

### **HUM 102 Non-Western Arts & Cultures**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

~~This course provides an interdisciplinary, genre-based study of the humanities centered on Non-Western traditions (with comparison to and contrast with exemplars from the Western tradition) focusing on, among others, works in art,~~



architecture, music, philosophy, theatre, history, dance, and literature. Themes of continuing significance are examined in the humanities both as cultural artifacts and areas of academic study. This course emphasizes oral and written analysis of ~~primary works~~. This course provides an interdisciplinary, genre-based study of the humanities centered on Non-Western traditions (with comparison to and contrast with exemplars from the Western tradition) focusing on, among others, works in art, architecture, music, philosophy, theatre, history, dance, and literature. Themes of continuing significance are examined in the humanities both as cultural artifacts and areas of academic study. IAI: ~~HF 901~~ HF 904 (1.1)

### **MATH 124 Calculus I with Analytic Geo**

**4 cr. hrs.;** 4 lecture hours; 0 lab hours per week.

~~Prerequisites: Appropriate placement score or MATH 118 or MATH 112 and MATH 116 "C" or better. Appropriate placement score? Or MATH 118 "C" or better; or MATH 112 "C" or better and MATH 116 "C" or better.~~

First semester calculus including analytic geometry, with emphasis on functions, limits, continuity, derivative and some of its applications, differentials, antiderivatives, and the definite integral. IAI: M1 900-1; MTH 901 (1.1)

### **MATH 225 Calculus II with Analytic Geo**

**4 cr. hrs.;** 4 lecture hours; 0 lab hours per week.

~~Prerequisite: MATH 124 "C" or better.~~

Second semester calculus. Includes applications of the definite integral, transcendental functions, techniques of integration, sequences and series, polar coordinates and parametric equation. IAI: M1 900-2, MTH 902 (1.1)

### **MATH 226 Calculus III with Analytic Geo**

**5 cr. hrs.;** 5 lecture hours; 0 lab hours per week.

~~Prerequisite: MATH 225 "C" or better.~~

Third semester calculus. Includes vectors and vector-valued functions, surfaces in 3-space differential and integral calculus of multivariate functions, vector fields, line and surface integrals. IAI: M1 900-3, MTH 903 (1.1)

### **MATH 230 Linear Algebra**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

~~Prerequisite: MATH 225 "C" or better. MATH 124 "C" or better.~~

Study of vector spaces with an emphasis on mathematical structure via definitions, theorems, and proofs. Topics include matrix representation of linear systems of equations, matrix equations and their solution space, linear transformations, inverses of matrices, dimensions and rank, vector spaces and subspaces, eigenvalues and eigenvectors, and orthogonality. IAI: MTH 911 (1.1)

### **PE 125 ~~Physical Fitness I~~ Physical Fitness**

**1 cr. hr.;** 0 lecture hours; 2 lab hours per week.

~~This physical education course is open to all students. It is designed to accommodate each student's fitness needs. Emphasis is placed on three areas of physical fitness: 1) an introduction to the holistic health concepts of physical fitness; 2) importance of regular exercise for all people; and 3) the~~

~~systematic practice of fitness exercises in order to improve one's strength, flexibility and endurance. Universal equipment is used in the laboratory phase of the course to develop more effectively one's level of physical fitness. This physical education course is offered for any student who would like to improve his/her knowledge and performance in physical fitness. Emphasis is placed on evaluation of current personal physical fitness and creating a personal exercise plan based on personal fitness performance goals. Students spend 30 hours over the course of the semester working to improve their strength, flexibility and cardiovascular endurance. Repeatable 3 times. (1.1)~~

### **PE 126 ~~Physical Fitness II~~**

**1 cr. hr.;** 0 lecture hours; 2 lab hours per week.

~~Prerequisite: PE 125 or instructor consent.~~

~~This physical education course is a continuation of PE 125 and is open to all students who have successfully completed PE 125. It is designed to teach intermediate level concepts and to accommodate each student's needs. Emphasis is placed on intermediate concepts of fitness, strength, flexibility and cardiovascular endurance. Free weight and universal equipment will be used in the laboratory phase to develop one's level of fitness. (1.1)~~

### **PE 127 ~~Physical Fitness III~~**

**1 cr. hr.;** 0 lecture hours; 2 lab hours per week.

~~Prerequisite: PE 125 and PE 126 or instructor consent.~~

~~This physical education course is a continuation of PE 126 and is open to all students who have successfully completed PE 125 & PE 126. It is designed to accommodate each student's needs. Emphasis is placed on advanced levels of physical fitness, strength, flexibility and cardiovascular endurance. Free weight and universal equipment is used in the laboratory phase to develop more effectively advanced levels of physical fitness. (1.1)~~

### **PE 128 ~~Physical Fitness IV~~**

**1 cr. hr.;** 0 lecture hours; 2 lab hours per week.

~~Prerequisite: PE 127 or instructor consent.~~

~~This physical education course is a continuation of PE 125, 126 and PE 127 and is open to all students who have completed PE 127. It is designed to provide advanced fitness concepts and skills based on individual needs. Emphasis is placed on advanced fitness levels of strength, flexibility and cardiovascular endurance. Free weights and universal equipment will be used in the laboratory phase of the course to develop more effectively advanced levels of physical fitness. (1.1)~~

### **PSYC 199 Psychology of Women**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

~~Prerequisite: Appropriate reading placement score or REA 103 "C" or better.~~

~~Examines the psychology of women from a feminist perspective, including such issues as violence against women, health psychology, work family balance, development across the life course, and sexist discrimination. This course will examine the psychology of women through a feminist and~~

*intersectional lens. Research and theory will be applied to a variety of issues impacting women such as the development of gender identity, the impact of socialization on gender development, women's sexuality and health, work-life balance, women in leadership, and violence against women. (1.1)*

### **PSYC 200 Human Growth & Development**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

*Prerequisite: PSYC 101 "C" or better, or formal admission into the Black Hawk College ADN Associate Degree Nursing program.*

This course explores the neurobiological, physical, cognitive, social, and emotional development of humans from conception through adulthood, including end of life issues. Examines theories and principles of human development in light of contemporary research, emphasizing normal developmental stages and patterns of adjustment to differing life-time demands. IAI: S6 902 (1.1)

### **PSYC 230 Social Psychology**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

*Prerequisite: PSYC 101 "C" or better.*

A systematic introduction to theory and research on the ways social factors influence individual and group behavior. Examines attitudes, social perception, the establishment of norms, conformity, leadership, group dynamics, and research methods, emphasizing their effects on the individual. IAI: PSY 908 (1.1)

### **PSYC 250 Abnormal Psychology**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

*Prerequisite: PSYC 101 "C" or better.*

This is an introductory course to abnormal psychology that introduces students to proposed theoretical explanations for the causes of psychological disorders from psychological, sociocultural, and biological perspectives. The Diagnostic and Statistical Manual of Mental Disorders (DSM-5) is used as the primary means of classification and treatment modalities are also considered. IAI: PSY 905 (1.1)

### **VT 102 ~~Interpersonal Communication~~ Communication in Vet Practice**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

*Prerequisite: Enrollment in this course is limited to students enrolled in the veterinary assistant or veterinary technology program.*

~~This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is on the communication process with clients and peers; issues addressed include perception, listening, self-disclosure, ethics, conflict management and nonverbal communication. Topics include understanding the human-animal bond and dealing with client and personal bereavement, and developing essential skills to open discussion lines, educate clients, negotiate during job hunting, resume building, and interview preparedness. This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is on the communication process with clients and peers; issues addressed include perception,~~

*listening, self-disclosure, ethics, conflict management, and nonverbal communication. Topics include understanding the human-animal bond and dealing with client and personal bereavement, developing essential skills to open discussion lines, educate clients, negotiate during job hunting, resume building, and interview preparedness. (1.2)*

### **VT 110 Vet Tech Anatomy & Physiology I**

**4 cr. hrs.;** 3 lecture hours; 2 lab hours per week.

~~*Prerequisite: Enrollment in the veterinarian assistant or veterinary technology program.*~~

~~Principles of normal systematic animal anatomy and physiology are studied. All major systems of the body are discussed with focus directed towards comparisons of organ systems of various domesticated small animals. Introductory animal anatomy and physiology with an emphasis on normal gross anatomy and veterinary clinical knowledge. This course provides the basis for the study of conformation, production, and pathological diseases of animals commonly seen in veterinary settings. (1.2)~~

### **VT 115 Small Animal Health Care I**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

~~*Prerequisite: Enrollment in the Veterinarian Assistant or Veterinary Technology program.*~~

~~An introduction to the management, husbandry and basic veterinary needs and care of small animal species, with emphasis on the dog and cat. Housing, sanitation and basic dietary requirements of small animals are discussed. Techniques for proper handling and restraint, administering medications, and specimen collection are included. An introduction to the management, husbandry, and basic veterinary needs and care of small animal species, with emphasis on the dog and cat. Housing, sanitation, and basic dietary requirements of small animals are discussed. Techniques for proper handling and restraint, administering medications, and specimen collection are included. (1.2)~~

### **VT 116 Small Animal Health Care II**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

~~*Prerequisite: VT 115 "C" or better or instructor consent.*~~

~~Provides instruction of common diseases that occur in small animals. Studies will include disease processes, preventative medicine and vaccination practices. Topics also covered: triaging emergencies, fluid therapy, blood transfusion medicine, dentistry and grooming. Provides instruction of common diseases that occur in small animals. Studies will include disease processes, preventative medicine, and vaccination practices. Topics also covered: triaging emergencies, fluid therapy, blood transfusion medicine, dentistry, and grooming. (1.2)~~

### **VT 123 Vet Tech Math**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

~~*Prerequisite: Enrollment in the veterinarian assistant or veterinary technology program.*~~

~~Focuses on understanding the mathematics required for veterinary technology. Topics include algebraic concepts and procedures (equations, ratios, proportions, percentage~~

problems, formulas), geometric concepts and procedures (systems of measurements and conversions, area, volume), problem solving techniques (dosage calculations, flow rate calculations, angle measurements) and an introduction to statistical methods and procedures (measures of central tendency, range, standard deviation, constructing and interpreting graphs). *Focuses on understanding the mathematics required for veterinary technology. Topics include algebraic concepts and procedures (equations, ratios, proportions, percentage problems, and formulas), geometric concepts and methods (systems of measurements and conversions, area, and volume), problem-solving techniques (dosage calculations, flow-rate calculations, and angle measurements), and an introduction to statistical methods and procedures (measures of central tendency, range, standard deviation, and constructing and interpreting graphs).* (1.2)

### **VT 130 Repro, Nutrition & Production**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

~~Prerequisite: VT 110 or VA 147 "C" or better; or instructor consent.~~ *VT 110 "C" or better or instructor consent*

~~Investigates genetics, reproduction and breeding soundness of common domestic animals. Basic food nutrients, nutritional requirements and ration formulation (small animal commercial products, special veterinary only diets, manufacturer marketing tools, large animal feedstuffs). This course will explore nutritional effect on reproduction and production of various domestic species. Investigates genetics, reproduction, and breeding soundness of common domestic animals. Basic food nutrients, nutritional requirements, and ration formulation (small animal commercial products, special veterinary only diets, manufacturer marketing tools, and large animal feedstuffs). This course will explore the nutritional effect on reproduction and production of various domestic species.~~ (1.2)

### **VT 140 Microbiology & Parasitology**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

~~Prerequisite: Enrollment in the veterinary assistant or veterinary technology program.~~

This course is a survey of major characteristics and life functions of common bacteria, viruses, prions, fungi, and other organisms in veterinary medicine. Emphasis will be on disease causing entities and zoonosis will be discussed where applicable using problem based scenarios. General and diagnostic parasitology will be covered. Common parasites in companion animals, livestock and humans will be studied. (1.2)

### **VT 150 Lab & Exotic Animal Care**

**3 cr. hrs.;** 2.5 lecture hours; 1 lab hours per week.

~~Prerequisite: VT 115 "C" or better; or instructor consent.~~

~~Students will study the basic anatomy and diseases of laboratory and exotic animal species. Focus in on developing skills in identifying, handling, collection of specimens, medical and surgical treatments. Facilities for laboratory and some exotic species will be discussed. Students will study the basic anatomy and diseases of laboratory and exotic animal species. Focused on developing skills in identifying, handling, collecting of specimens, medical and surgical treatments. Facilities for laboratory and some exotic species will be discussed.~~ (1.2)

### **VT 160 Vet Tech Pharmacology**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

~~Prerequisite: VT 123 "C" or better or instructor consent.~~

~~Discussion of drug groups, mechanism of action and side effects. This course covers the regulations for prescribing, ordering, and dispensing pharmaceuticals; appropriate methods of drug administration and dispensing in a clinical setting; log book and lock box requirements for scheduled drugs; and overview of commonly used products in private and community practices. Discussion of drug groups, mechanism of action, and side effects. This course covers the regulations for prescribing, ordering, and dispensing pharmaceuticals; appropriate methods of drug administration and dispensing in a clinical setting; controlled substances accountability records and lock box requirements for scheduled drugs; and overview of commonly used products in private and community practices.~~ (1.2)

### **VT 166 Clinical Preceptorship**

**2 cr. hrs.;** 0 lecture hours; 4 lab hours per week.

~~Prerequisite: VT 111, 116, 140, 150 and VT 160 with a C or better; or instructor consent.~~

~~A preceptorship is a mentoring program, 4 weeks in length, intended to provide personal and professional instruction, training, and supervision to students during their first year of the veterinary technology program. This rotation consists of 160 hours in which the student works with a practicing veterinarian and a certified veterinary technician (CVT, RVT or equivalent) in a clinical setting. The student will apply previous course work and experience to a work environment while gaining new skills. A preceptorship is a mentoring program, 4 weeks in length, intended to provide personal and professional instruction, training and supervision to students during their first year of the veterinary technology program. This rotation consists of 160 hours in which the student works with a practicing veterinarian and a certified veterinary technician (CVT, RVT, or equivalent) in a clinical setting. The student will apply previous coursework and experience to a work environment while gaining new skills.~~ (1.2)

### **VT 202 Veterinary Office Practices**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

~~Prerequisite: 40 VT Hours with "C" or better; or instructor consent.~~

Introduces the student to computer software commonly used in veterinary practices. Students will learn to create and maintain individual client/patient records as well as the filing and management of veterinary documents. Students will become proficient in scheduling, admitting, and discharging patients, as well as ordering and inventory control. (1.2)

### **VT 203 Vet Ethics and Critical Thinking**

**2 cr. hrs.;** 2 lecture hours; 0 lab hours per week.

~~Prerequisite: Enrollment in the Veterinary Assistant program or Veterinary Technology program. Enrollment in the veterinary assistant or veterinary technology program.~~

This course reviews current topics in veterinary medicine and surgery, and large animal production practices. Designed to

assist students in developing life-long learning skills, participants will critically evaluate the internet and other reference media as a source of information (peer-reviewed or refereed information versus non-peer-reviewed materials). Emotions, opinions, debates and a brief introduction to laws and ethics in veterinary practice and animal agriculture will be explored. (1.2)

### **VT 204 Advanced Vet Office Management**

**2 cr. hrs.;** 2 lecture hours; 0 lab hours per week.

*Prerequisite: Enrollment in the veterinary technology program.*  
~~Covering many tools necessary to become proficient in managing patient flow in a hospital, clinic or animal care facility, this course utilizes case-based studies. Participants will be taking a lead role in designing inventory control and OSHA compliant practices. Students will learn to hire, educate, and evaluate employees as they begin to learn the steps required to run a successful veterinary team and manage a veterinary practice.~~ *Covering many tools necessary to become proficient in managing patient flow in a hospital, clinic, or animal care facility, this course utilizes case-based studies. Participants will be taking a lead role in improving client communication and inventory control. Students will learn to hire, educate, and evaluate employees as they begin to learn the steps required to run a successful veterinary team and manage a veterinary practice.* (1.2)

### **VT 210 Vet Tech Diagnostic Imaging**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

*Prerequisite: VT 111 "C" or better; or instructor consent.*  
~~This course is the study of radiological techniques, exposure and corrections, various film processing systems, film labeling and storage, contrast methods and digital technology. Students will be guided through ultrasound technology and safety protocols as well.~~ *This course is the study of radiological techniques, exposure and corrections, film processing systems, film labeling and storage, contrast methods, digital technology, and sending radiographs by email. Students will be guided through ultrasound technology and safety protocols as well.* (1.2)

### **VT 215 Large Animal Health Care**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

*Prerequisite: VT 116 "C" or better; or instructor consent.*  
~~This course introduces students to large animals (horses, cows, goats, sheep, pigs). Students learn about restraint and handling of large animals with an emphasis on safety. Various aspects of large animal medicine and surgery are covered, including common diseases, genetic abnormalities, plant toxicities, gastrointestinal issues, immunology, preventative medicine and dentistry. Hands on laboratory will include basic nursing care (collecting and recording vital signs, medicating, bandaging, sample collection). Students will familiarize themselves with the large animal setting (farms, barn, stocks, chutes) in addition to various supplies, tools and techniques utilized in large animal medicine.~~ *This course introduces students to large animals (horses, cows, goats, sheep, pigs). Students learn about restraint and handling of large animals with an emphasis on safety. Various aspects of large animal medicine and surgery*

*are covered, including common diseases, genetic abnormalities, plant toxicities, gastrointestinal issues, immunology, preventative medicine, and dentistry. The hands-on laboratory will include basic nursing care (collecting and recording vital signs, medicating, bandaging, sample collection). Students will familiarize themselves with the large animal setting (farms, barn, stocks, chutes) in addition to various supplies, tools, and techniques utilized in large animal medicine.* (1.2)

### **VT 216 Advanced Large Animal Tech**

**2 cr. hrs.;** 1.5 lecture hours; 1 lab hours per week.

*Prerequisite: VT 215 "C" or better; or instructor consent.*  
~~This course is a continuation of VT 215 Large Animal Health Care, and provides students with advanced study of large animals. Various aspects of large animal medicine and surgery are covered in depth, including advancing technology in the care of performance horses, long term wound management, advanced ophthalmology and dentistry, and embryo transfer in horses and cattle. Hands on laboratory will include advanced surgical and medical nursing care.~~ *This course is a continuation of VT 215 Large Animal Health Care, and provides students with advanced study of large animals. Various aspects of large animal medicine and surgery are covered in-depth, including advancing technology in the care of performance horses, long-term wound management, advanced ophthalmology and dentistry, and embryo transfer in horses and cattle. The hands-on laboratory will include advanced surgical and medical nursing care.* (1.2)

### **VT 222 National Board (VTNE) Review**

**2 cr. hrs.;** 2 lecture hours; 0 lab hours per week.

*Prerequisite: 40 VT Hours "C" or better; or instructor consent.*  
~~This course reviews topics covered in the Veterinary Technician National Examination (VTNE) and addresses test taking skills.~~ *This course reviews topics covered in the Veterinary Technician National Examination (VTNE) and addresses test taking skills.* (1.2)

### **VT 241 Clin Path & Lab Procedures II**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

*Prerequisite: VT 240 "C" or better; or instructor consent.*  
~~As a continuation of VT 240, this course covers the methods and theory of testing various cellular and fluid components of the body. Students will perform in depth skin and ear evaluations and urinalysis. Cytology, using fine needle aspirates, taps (spinal, marrow, joint), and impression smears will be introduced. Necropsy with sample collection, preservation techniques, proper packaging and shipping to reference laboratories will be applied.~~ *As a continuation of VT 240, this course covers the methods and theory of testing various cellular and fluid components of the animal body. Students will perform in-depth skin and ear evaluations and urinalysis. Cytology, using fine-needle aspirates, taps (spinal, marrow, joint), and impression smears will be introduced. Necropsy with sample collection, preservation techniques, proper packaging, and shipping to reference laboratories will be applied.* (1.2)

### **VT 266 Vet Tech Clinical Internship**

**4 cr. hrs.;** 0 lecture hours; 8 lab hours per week.

*Prerequisite: 47 VT Hours "C" or better; or instructor consent. This internship is a mentoring program, 8 weeks in length, intended to provide personal and professional instruction, training, and supervision to students upon completion of their coursework in the veterinary technology program. This rotation consists of 320 hours in which the student works with a practicing veterinarian and a certified veterinary technician (CVT, RVT or equivalent) in a clinical setting. The student will apply previous course work and experience to a work environment while gaining new skills. This internship is a mentoring program, 8 weeks in length, intended to provide personal and professional instruction, training, and supervision to students upon completion of their coursework in the veterinary technology program. This rotation consists of 320 hours in which the student works with a practicing veterinarian and a certified veterinary technician (CVT, RVT, or equivalent) in a clinical setting. The student will apply previous coursework and experience to a work environment while gaining new skills. (1.2)*

## **COURSE DELETIONS**

### **Effective Aug 2021**

Published August 1, 2021

#### **ENG 213 Early American Literature**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

*Prerequisite: ENG 101 "C" or better.*

ENG 213 is a survey of representative works illustrating the development of American literature from its beginning to the Civil War with emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. IAI: H3 914 (1.1)

#### **ENG 222 Modern British Literature**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

*Prerequisite: ENG 101 "C" or better.*

ENG 222 is a survey of representative works illustrating the development of British Literature from 1800 to the present with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. IAI: H3 913 (1.1)

#### **HORT 190 ID of Landscape Plant**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

The identification of shrubs used in landscaping. Discussion of cultural requirements, insects, and diseases found on these plants along with emphasis on pruning, transplanting, and design use. (1.2)

#### **HORT 193 Trees/Arboriculture**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

The identification, care and use of nature and introduced trees. Special emphasis on techniques such as cabling and pruning. (1.2)

#### **HORT 194 Ident. of Horticultural Plants**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

This course includes the study of structures, physiology, reproduction and the identification of common horticulture plants. Basic horticultural practices are emphasized. (1.2)

#### **HORT 195 Vegetable Production**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

Designed to give the garden grower general knowledge regarding common vegetable crops. Emphasis is on growing conditions and proper care of vegetables. (1.2)

#### **HORT 196 Perennials and Ground Cover**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

Provides a working knowledge of herbaceous perennials such as irises, peonies, lilies, and many others with respect to diseases, insects, propagation, and design. (1.2)

#### **HORT 198 Turf and Lawn Management**

**1-3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

The management and care of various turf grasses and their related problems. Emphasis is placed on practical equipment instruction, weeds, insects and diseases as they relate to golf courses, parks, sod production and home lawns. (1.2)

#### **HORT 203 Hort Research Internship**

**0.5-2 cr. hrs.;** 0 lecture hours; 2.5-10 lab hours.

Study of special problems or research in the areas of horticulture. Experience of facilities such as the Quad City Botanic Garden. (1.2)

#### **HORT 210 Horticulture Work Experience**

**5 cr. hrs.;** 0 lecture hours; 40 lab hours per week.

Eight weeks of supervised training in an approved horticulture business. Reports by the student and job satisfactory performance required for credit. (1.2)

#### **HORT 293 Small Fruits and Viticulture**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

The study of bramble fruits (red and black raspberries, blackberries, blueberries, and others), and grapes and their production. Emphasis is on growing conditions, cultural practices and production of small fruits. (1.2)

#### **HORT 295 Landscape Const Maint & Op.**

**3 cr. hrs.;** 2 lecture hours; 2 lab hours per week.

Techniques and uses of materials as they relate to construction of various features. Emphasis is on using surveying instruments and concrete and paving materials and many other landscape components. (1.2)

#### **HORT 296 Horticulture Business Mgt.**

**3 cr. hrs.;** 3 lecture hours; 0 lab hours per week.

The class is a study of retail and wholesale horticulture business management. Field trips include local nurseries, greenhouses, garden centers, seed and equipment dealers. Emphasis is on financing, tax records, land purchase, purchases, advertising, ownership and small business practices. The course will include

~~a case study of a horticulture related business of student interest. (1.2)~~

### **HORT 298 Golf Course Management**

~~3 cr. hrs.; 3 lecture hours; 0 lab hours per week.~~

~~Designed to provide advanced establishment skills of turf areas pertaining to golf courses. Additional study of irrigation systems, equipment maintenance, tees, and bunker development. Strong emphasis on fertilization, drainage, mowing and control of weeds, diseases and insects. (1.2)~~

### **PE 126 Physical Fitness II**

~~1 cr. hr.; 0 lecture hours; 2 lab hours per week.~~

~~Prerequisite: PE 125 or instructor consent.~~

~~This physical education course is a continuation of PE 125 and is open to all students who have successfully completed PE 125. It is designed to teach intermediate level concepts and to accommodate each student's needs. Emphasis is placed on intermediate concepts of fitness, strength, flexibility and cardiovascular endurance. Free weight and universal equipment will be used in the laboratory phase to develop one's level of fitness. (1.1)~~

### **PE 127 Physical Fitness III**

~~1 cr. hr.; 0 lecture hours; 2 lab hours per week.~~

~~Prerequisite: PE 125 and PE 126 or instructor consent.~~

~~This physical education course is a continuation of PE 126 and is open to all students who have successfully completed PE 125 & PE 126. It is designed to accommodate each student's needs. Emphasis is placed on advanced levels of physical fitness, strength, flexibility and cardiovascular endurance. Free weight and universal equipment is used in the laboratory phase to develop more effectively advanced levels of physical fitness. (1.1)~~

### **PE 128 Physical Fitness IV**

~~1 cr. hr.; 0 lecture hours; 2 lab hours per week.~~

~~Prerequisite: PE 127 or instructor consent.~~

~~This physical education course is a continuation of PE 125, 126 and PE 127 and is open to all students who have completed PE 127. It is designed to provide advanced fitness concepts and skills based on individual needs. Emphasis is placed on advanced fitness levels of strength, flexibility and cardiovascular endurance. Free weights and universal equipment will be used in the laboratory phase of the course to develop more effectively advanced levels of physical fitness. (1.1)~~

### **VT 270 Vet Tech Surgery & Nursing**

~~5 cr. hrs.; 4 lecture hours; 2 lab hours per week.~~

~~Prerequisite: VT 170 "C" or better; or instructor consent.~~

~~A clinical extension of Anesthesia and Surgical Prep course, students will apply previous course work and clinical experience in a laboratory setting with small and large animals. Facilitating the veterinary surgeon under sterile techniques, practical use of monitoring equipment (ECG, PO2, blood pressure), dental cleanings, and post operative care: various bandage applications, casting, pain assessment and~~

~~management will be covered in detail. A clinical extension of the Anesthesia and Surgical Prep course, students will apply previous course work and clinical experience in a laboratory setting with small and large animals. Facilitating the veterinary surgeon under sterile techniques, practical use of monitoring equipment (ECG, PO2, blood pressure), dental cleanings, and post-operative care: various bandage applications, casting, pain assessment, and management will be covered in detail. (1.2)~~

## **NEW COURSES**

### **Effective Aug 2021**

Published August 1, 2021

#### **ART 247 Motion Graphics**

3 cr. hrs.; 0 lecture hours; 6 lab hours per week.

Prerequisite: ART 215 or ART 290 "C" or better; or permission of the instructor.

This course explores effective visual communication using motion graphics. Student will integrate typography, illustration, photography, video, and audio in time-based media compositions. Motion theory, fundamentals, of design, concept development, and rendering graphics for multiple outputs will be emphasized. Software such as Adobe After Effects will be explored.

# ERRATA

## Effective Aug 2021

Published August 1, 2021

Page 21

### Placement

For college courses where prerequisites are required, in order to be successful, students must meet pre-requisite requirements prior to enrolling in the course. To demonstrate that required course pre-requisites have been met, students enrolling in courses with prerequisites may complete the college's placement test (ACCUPLACER). Students may also use appropriate ACT or SAT scores, prior college coursework, high school transcripts, or transitional instruction portability codes to demonstrate proficiency for courses in which they plan to enroll at Black Hawk College.

The ACCUPLACER tests measure academic skills in writing, reading, basic math, and algebra that provides information for advising and placement into courses commensurate with abilities. Test scores place students into either developmental education or 100-level college credit courses. Placements are standard for English Composition, Math and Reading. Therefore, students are encouraged to prepare for the ACCUPLACER test. Study help is available under the Information for Students tab at [www.accuplacer.org](http://www.accuplacer.org).

Some courses require a specific test score prior to enrollment. All students must meet the prerequisites for courses either through assessment or previous college coursework. **Students who have attended another college or university or who have earned a degree should see an advisor or counselor to discuss their options before taking ACCUPLACER.**

Students who have taken the **ACT or SAT test within the past two years** *eighteen months* may be able to have portions of the ACCUPLACER test waived. ACT and SAT scores (from either official score report or high school transcript) must be shown to an advisor or brought to the testing session proctor to receive a test exemption. If no documentation is provided, students will be required to take all portions of the test.

## Effective Aug 2021

Published August 1, 2021

Page 76

### Computer Information Technology

Associate in Applied Science Code: 5378

Contact [bcengt@bhc.edu](mailto:bcengt@bhc.edu) for information; First Stop Center, 309-796-5100, Rm 1-213; East Campus, Advising, 309-854-1709

## Computer Information Technology Tracks

### Secure Software Development Track

#### Suggested Courses

First Semester		Credit Hours
CS 105	Computer Science Principles	3
CIP 170	Web Page Development	3
CIP 190	Team MS Office/SharePoint <i>or</i>	
CS 100	Introduction to Computers	3
<del>CIP 201</del>	<del>Microsoft Project</del>	<del>1</del>
CIP 214	C Programming	3
ITS 125	IT Professional Skills	1
<del>NETW 120</del>	<del>Basic Networking</del>	<del>3</del>

#### Second Semester

BE 264	Microsoft Access	3
CIP 150	Secure Coding	3
CS 121	Intro to Computer Science	4
ITS 112	Operating Systems	3
<del>NETW 170</del>	<del>Intro to Information Security</del>	<del>3</del>
	General Ed Elective in Humanities, Social Sciences, Science, or Non-Western Studies	3

#### Summer Semester

MATH 112	College Algebra	4
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#### Third Semester

<del>CIP 214</del>	<del>C# Programming</del>	<del>4</del>
CIP 220	Intro to Assured Software Eng	3
<del>ENGT 224</del>	<del>Computer Programming</del>	<del>3</del>
CS 225	Advanced Programming	4
ITS 212	Linux Shell Programming	3
NETW 120	Basic Networking	3
NETW 167	Powershell	3
<del>SPEC 101</del>	<del>Principles of Speech Communica <i>or</i></del>	<del>3</del>
<del>SPEC 111</del>	<del>Business and Professional Comm</del>	<del>3</del>

#### Fourth Semester

<del>CIP 217</del>	<del>Advanced C# Programming</del>	<del>4</del>
CIP 240	Mobile Application Programming	3
CIP 260	Systems Design and Development	3
CIP 270	Field Project	3
NETW 170	Intro to Information Security	3
SPEC 101	Principles of Speech Communica <i>or</i>	
SPEC 111	Business and Professional Comm	3

Minimum total hours required for degree 64



## Effective Aug 2021

Published August 1, 2021

Page 98

### Engineering Technology

Associate in Applied Science Code: 5187

Contact [bcengt@bhc.edu](mailto:bcengt@bhc.edu) for information; First Stop Center, 309-796-5100, Rm 1-213; East Campus, Advising, 309-854-1709.

The Engineering Technology degree program will allow students to enter into a wide range of career fields within industrial settings after two years of study while also providing the option of university transfer upon graduation. After completing the first year of common courses in the Fundamentals of AutoCAD, DC circuits, machining, PC applications in technology, hydraulics/pneumatics and technical math and calculus, students will have the opportunity to focus on any track from three fields of engineering technology: electrical, mechanical and manufacturing. Students with employment or job shadow opportunity in a technical field will be able to do technology-based practicum or internships in an industrial setting.

Students will learn the required skills to take manufacturing or engineering designs from concept to completion. Opportunities for employment exist for engineering technicians in aerospace, electrical and electronic, maintenance, industrial, mechanical, electro-mechanical, environmental, and civil engineering fields.

Note: ENGT and MATH courses in this degree are offered only once per year. Some courses require a specific sequence. To complete this degree within 2 years, please follow the recommended Track outline. This program is intended to start in the Fall. See faculty contact person to discuss alternatives.

### Engineering Technology Tracks Manufacturing Track

Students who complete this track will be able to:

- Demonstrate a general knowledge of MS Office (Word, Excel, PowerPoint), Technical Math (algebra, trigonometry, geometry, differential and integral calculus) hydraulics, blueprint reading.
- Demonstrate knowledge and application of 2D computer-aided drawing, orthographic views, line styles, dimensioning styles, auxiliary views, sectional views, GD&T, symbols, layout, and title block, 3D computer-aided solid modeling, basic tools, extrude tool, revolve tool, patterns, parts assembly, working drawings from solid models, interpreting engineering drawings, basic hydraulics and machines, stress analysis in structures and machines, and strength of materials.

#### Suggested Courses

##### First Semester

ENGT 100 Intro to Engineering Tech

##### Credit Hours

1

ENGT 101	Blueprint/Schematic Reading	3
ENGT 102	Introduction to 2D-CAD	2
ENGT 103	Fundamentals of DC Circuits	3
ENGT 104	Fundamentals of Machining	2
ENGT 105	PC Applications of Technology	3
MATH 123	Technical Algebra/Trigonometry	4

#### Second Semester

ENG 101	Composition I <i>or</i>	
COMM 100	Communication Skills	3
ENGT 150	Hydraulics/Pneumatics	3
<del>ENGT 231</del>	<del>Lathe Operations</del>	<del>3</del>
<del>ENGT 232</del>	<del>Milling Operations</del>	<del>3</del>
PHYS 101	College Physics I	5
MATH 223	Technical Calculus	4

#### Third Semester

<del>ENGT 170</del>	<del>Engineering Materials</del>	<del>3</del>
<del>ENGT 180</del>	<del>Introduction to Machine Shop</del>	<del>3</del>
ENGT 186	Introductory CNC	3
<del>ENGT 190</del>	<del>Engineering Tech Practicum</del>	<del>2</del>
ENGT 224	Computer Programming	3
ENGT 231	CNC Lathe Setup and Operations	3
ENGT 232	CNC Mill Setup and Operations	3
ENGT 280	Precision Measurement	3
GT 200	Independent Study	1

#### Fourth Semester

<del>ENGT 236</del>	<del>Intermediate CNC</del>	<del>3</del>
ENGT 236	CNC Manual Programming	3
ENGT 180	Introduction to Machine Shop	3
<del>ENGT 280</del>	<del>Quality Issues in Machining</del>	<del>3</del>
<del>ENGT 283</del>	<del>Advanced Machining Operations</del>	<del>3</del>
ENGT 283	GD&T Interpretation	3
ENGT 290	Engineering Tech Internship	3
ENGT 286	Advanced CNC with CAM	3
PHYS 101	College Physics I	5

Minimum total hours required for degree 64

## Effective Aug 2021

Published August 1, 2021

Page 87

### Medical Coding Specialist Certificate

Certificate Code: 5584

Contact [hhs@bhc.edu](mailto:hhs@bhc.edu) for information; First Stop Center, 309-796-5100, Rm 1-213; East Campus, Advising, 309-854-1709.

The Medical Coding Specialist Certificate is to prepare students for employment in the health care information management area. This certificate enables the student to be employed by coding departments, physicians' offices, health care clinics, emergency care clinics, chiropractic offices, psychiatric clinics, health insurance companies and HMO offices. The opportunity for Internet coding work is possible after experience is gained.



The Medical Coding Specialist job entails the translation of diagnoses, procedures, services and supplies into numeric/alpha-numerical components for statistical reporting and reimbursement. The Medical Coding Specialist can expect team working experience with medical billing specialists and others on the health care team; this person will need special training in medical terminology, anatomy and physiology as well as a thorough understanding of CPT procedure and ICD-10 diagnosis coding; also necessary knowledge includes an in-depth understanding of third-party reimbursement and coverage policies, the review and the abstract of in-patient and out-patient medical records, the ability to utilize new coding standards, HIPAA regulations, the ability to resolve insurance carrier rejects and denials related to coding and coverage issues. ~~To deliver these special skills in this program, this curriculum provides both classroom instruction and hands-on experience in the form of an internship. The internship will be for one semester minimum 10 hours a week, for a total of 240 hours. The internship will require 240 hours for completion.~~

**Suggested Courses**

**First Semester** **Credit Hours**

BE 100	Orientation to Work Environment	2
HIM 110	Human Anatomy & Disease	3
HIM 150	Technical Medical Terminology	3
HIM 156	Introduction to Health Insurance	3
HIM 257	Procedures and Diagnosis Coding I	3

**Second Semester**

HIM 200	Advanced Medical Terminology	3
HIM 251	Medical Office Procedures	3
HIM 258	Procedures & Diagnosis Coding II	3

**Third Semester**

HIM 254	Law Liability and Medical Ethics	3
HIM 259	Procedures & Diagnosis Coding III	3
<del>HIM 261</del>	<del>Seminar</del>	<del>1</del>
<del>HIM 265</del>	<del>Internship</del>	<del>3</del>

**Fourth Semester**

<del>HIM 261</del>	<del>Seminar</del>	<del>1</del>
<del>HIM 265</del>	<del>Internship</del>	<del>3</del>

*Minimum total hours required for Certificate* 33

**Effective Aug 2021**

Published August 1, 2021

Page 67

**Veterinary Assisting**

*Certificate Code: 5127*

*Contact Person: Janet Johnson, CVT, Director 309-854-1985; [agriculture@bhc.edu](mailto:agriculture@bhc.edu) for information.*

*This certificate is only offered as a one-year program with a fall start. Offered at East Campus only.*

The Veterinary Assisting Certificate program is a one year program that prepares students to become a member of the

veterinary healthcare team, who aids the veterinarian and veterinary technician perform daily tasks. Veterinary Assistants are employed primarily in veterinary clinics and hospitals and may perform the following duties:

- Kennel work
- Assisting with the handling of animals
- Feeding and exercising animals
- Cleaning and setting up equipment
- Clerical work

**Admission Requirements:**

1. High School graduation or equivalent.

Students who complete this program will be able to:

- Demonstrate proficiency in essential skills required during practical labs, exams, and clinical/field work experiences.

**Required Courses**

**Fall Semester** **Credit Hours**

VA 105	Animal Housing & Recreation I	3
VT 100	Intro to Veterinary Technology <i>online</i>	2
VA 147	Vet Clinical I	4
VA 109	VA Animal Science	3

**Minimester**

HIM 251	Medical Office Procedures	3
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**Spring Semester**

VT 102	Interpersonal Communication	3
VA 160	Vet Assistant Pharmacology	3
VT 203	Vet Ethics and Critical Thinking <i>online</i>	2
VA 247	Vet Clinical II	4
VA 205	Animal Housing & Recreation II	2

**Summer Semester**

VA 261	Seminar	1
VA 265	Internship	3

*Minimum Total Hours Required for Certificate* ~~32~~ 33

**NEW PROGRAM**

Effective Spring 2022

Published September 1, 2021

Updated October 4, 2021

**Cybersecurity**

*Associate in Applied Science Code: 5289*

*Contact Person: Dr. Richard Bush [bushr@bhc.edu](mailto:bushr@bhc.edu) 309-796-5049*

*Cybersecurity is a vital component of “best practices” for businesses, industry, and government, and the demand for trained professionals in the field will continue to grow. The Cybersecurity program at Black Hawk College is designed to*

prepare individuals with the knowledge and skills for a successful career in this important and dynamic arena.

Cybersecurity professionals are tasked with protecting information confidentiality, integrity, and availability by configuring and maintaining network routers, firewalls and intrusion-detection systems, detecting and minimizing security vulnerabilities, maintaining secure remote communication and implementing corporate security policy. Students in the program will gain hands-on experience in these skills, as well as broad background training that includes computer hardware, networking, operating systems, and programming and scripting courses. Course content is shaped by an Advisory board made up of local IT and business professionals, who regularly review the curriculum and offer input, to ensure the program maintains relevance with industry trends.

Students who complete the Cybersecurity AAS degree will have served an internship to enhance classroom training with real-world experience. They will also have the opportunity to earn several industry certifications, including CompTIA A+, Network+ and Security+ and Cisco CCNA.

Interested students are encouraged to contact an advisor or faculty member for more information.

### Suggested Courses

#### First Semester

ITS 116 Computer Hardware	3
ITS 125 IT Professional Skills	1
CIP 214 C Programming	3
NETW 125 Introduction to Networks	4
Gen Ed Communications	3

#### Second Semester

ITS 112 Operating Systems	3
NETW 145 Switching, Routing, & Wireless	4
NETW 170 Intro to Information Security	3
NETW 215 Windows Server	3
Gen Ed Math & Science	3

#### Third Semester

ITS 212 Linux Shell Programming	3
(Pending ICCB Approval of new course)	
NETW 167 PowerShell	3
*Technical Elective	3
Gen Ed Humanities, Social Sciences, Science or Non-Western Studies	6

#### Fourth Semester

NETW 274 Ethical Hacking/Security+ Prep	3
NETW 280 Cisco CCNA Security	3
NETW 290 IT Internship	3
*Technical Elective	3
Gen Ed Humanities, Social Sciences, Science	

or Non-Western Studies 3

Minimum total hours required for degree: 60

\*Technical Electives – 6 credits

ITS 118 Computer Troubleshooting	3
ITS 216 Advanced PC Hardware/A+ Prep	3
NETW 265 Enterprise Net.Sec./Automation	4

### Effective Aug 2021

Published September 1, 2021

Page 176 Faculty info

Annie Oldenburg (2018)

Instructor

~~M.A., Pacific Northwest College~~

M.F.A., Pacific Northwest College of Art

Visual Studies

### Effective Aug 2021

Published October 4, 2021

Page 38

### Honors Program

The Honors Program at Black Hawk College provides students with an opportunity to participate in academic work to enrich their college experience. Please visit the new college website page for more information at <https://www.bhc.edu/academics/honors-program-overview/>

To complete the Honors Program, students will need to have a GPA of 3.25 or better and meet the requirements of the program:

- Complete HONR 200 and HONR 205 with a C or better.
- Complete the Service Project requirement.
- Submit the Service Project Reflection Form.
- Share HONR 205 Independent Study findings through the HONR 205 Reporting Form.