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Course Descriptions
(new or revised only)

Please see the 2019-2020 Academic Catalog or www.bhc.edu/academics/catalog for course descriptions not listed below.

Effective August 2019
Published July 26, 2019 and November 1, 2019

ACCT 208 Intermediate Accounting
4 cr. hrs.; 4 lecture hours; 0 lab hours per week.
Prerequisites: ACCT 101 “C” or better; or ACCT 170 and ACCT 180 “C” or better; or instructor consent.
Comprehensive review of fundamental accounting principles and the conceptual framework, including the financial statements, time value of money, assets, liabilities and equity. Designed for students in the accounting career program. (1.2)

Effective Summer 2019
Published July 26, 2019

BUSN 160 Business Math I
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
Prerequisite: A minimum score of 32 on COMPASS pre-algebra test or a minimum score of 22 on ACT math appropriate placement score.
A short review of basic math concepts and their application to actual business problems. Covers insurance, interest calculations, merchandising discounts, taxes, dividends and basic statistical measures. (1.2)

Effective August 2019
Published July 26, 2019

BUSN 230 Principles of Marketing
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
An in-depth analysis of major contemporary marketing concepts and practices. Covers marketing environments and trends, product development, pricing practices, distribution networks and relationships with advertising agencies and sales forces. (1.2)

Effective January 2020
Published November 15, 2019

COMM 105 Essentials of English
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
Prerequisite: Appropriate placement score; or ENG 091, ESL 076, or ENG 100, "C" or better. 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. (1.2)

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NETW 101 Information Security Awareness
1 cr. hrs.; 1 lecture hours; 0 lab hours per week.
This course provides a basic introduction to information security, using a non-technical approach. Content emphasizes data security concepts, types of threats to data security, data protection strategies, and legal, social and ethical issues affecting data security. In addition to students pursuing a Computer Information Technology degree or certificate, this course is also useful to any student who wishes to expand his/her knowledge of the topic, for career enhancement in business, health care, government or legal positions. Students should have a basic working knowledge of computers. (1.2)

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CIP 150 Secure Coding
3 cr. hrs.; 3 lecture hours; 0 lab hours
Prerequisite: ENGT 224, and CIP 101 or CS 105
This course covers security vulnerabilities of programming in weakly typed languages like C and in more modern languages like Java. Common weaknesses exploited by attackers are discussed, as well as mitigation strategies to prevent these weaknesses. Students practice programming and analysis of software systems through testing and static analysis. (1.2)

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CIP 270 Field Project
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
Prerequisite: Instructor consent.
For CIP students in the last semester of the CIP program. Students obtain employment in an approved CIP position to gain on-the-job experience. (1.2)

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CRJU 152 Criminology
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
Prerequisite: SOC 101
Broad overview of the criminal justice system and a study of crime as a social phenomenon.
This course provides an overview of the field of criminology. Student will be introduced to the multi-disciplinary study and analysis of the nature, causes, and control of crime; measurement of crime; and the interactive roles of the system, victim, and offender. IAI: CRJ 912 (1.1)

Effective August 2019
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Published July 26, 2019

Education

EDUC 101 Introduction to Education
3 cr. hrs.; 2.5 lecture hours; 1 lab hour per week.
An overview of American education as both a professional and a public enterprise. Social, historical, and philosophical foundations give perspective to an examination of current issues, policies, and trends in the field of education, including cultural diversity. Includes such topics as organization and structure, finance, and curriculum. (1.1)

EDUC 102 Diversity of Schools and Society
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
Diversity of Schools and Society will focus on how schooling is shaped by the social contexts in which it occurs, particularly in the multicultural and global contexts. (1.1)

EDUC 235 Clinical Observation in Education
2 cr. hrs.; 1 lecture hour; 2 lab hours per week.
Sophomore standing recommended. Clinical observation of learning in a variety of educational settings for those considering teaching as a career. Pre-teaching majors planning to transfer to state universities are strongly advised to enroll in this course to fulfill prerequisites for programs. (1.1)

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ENG 091 Writing Fundamentals
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
Prerequisite: Appropriate placement score.
ENG 091 emphasizes strategies for organization and development of paragraphs and short essays and focuses on improving grammar and writing skills for academic writing. (1.4)
ENG 101 Composition I  
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.  
Prerequisite: Appropriate placement scores in writing; or ENG 091 “C” or better; or ENG 100 “C” or better; or concurrent enrollment in ENG 100; AND appropriate placement score in reading; or ENG 103 “C” or better.  
Writing = Appropriate placement scores in writing; or appropriate ESL Coordinator consent; or ENG 091 “C” or better; or concurrent enrollment in ENG 100; AND appropriate placement score in reading; or ENG 103 “C” or better.  
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. IAI: C1 900 (1.1)

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German

GERM-101 Elementary German I  
4 cr. hrs.; 4 lecture hours; 0 lab hours per week.  
GERM 101 is the first course of a two-semester sequence in elementary German with emphasis upon speaking, listening comprehension, reading, writing, and understanding culture. (1.1)

GERM-102 Elementary German II  
4 cr. hrs.; 4 lecture hours; 0 lab hours per week.  
Prerequisite: One year of high school German “C” or better; or one semester of college German “C” or better; or instructor consent.  
GERM 102 is the second course of a two-semester sequence in elementary German with emphasis upon speaking, listening comprehension, reading, writing, and understanding culture. (1.1)

GERM-201 Intermediate German I  
4 cr. hrs.; 4 lecture hours; 0 lab hours per week.  
Prerequisite: Two years of high school German “C” or better; or two semesters of college German “C” or better; or instructor consent.  
GERM 201 is the first course of a two-semester sequence in intermediate German with emphasis upon oral proficiency, grammar review, compositions, literary readings, and study of German culture and civilization. (1.1)

GERM-202 Intermediate German II  
4 cr. hrs.; 4 lecture hours; 0 lab hours per week.  
Prerequisite: Three years of high school German “C” or better; or three semesters of college German “C” or better; or instructor consent.

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Materials Science Technology

MAST-101 Intro to Materials Science  
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.  
Prerequisite: MAST 101 and concurrent enrollment in or successful completion of CHEM 101 or instructor consent.  
The course introduces student to the theory and practice in metal casting processes using green sand, shell, permanent, investment, centrifugal, and loss foam processes. Students will learn the principles of pattern design, molding, melting, filling and process analysis using a variety of materials and production techniques. (1.2)

MAST-102 Metal Casting Technology  
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.  
Prerequisite: MAST 101 or instructor consent.  
The course introduces students to the theory and practice in metal casting processes using green sand, shell, permanent, investment, centrifugal, and loss foam processes. Students will learn the principles of pattern design, molding, melting, filling and process analysis using a variety of materials and production techniques. (1.2)

MAST-105 Heat Treatment of Metals  
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.  
Prerequisite: MAST 101 or instructor consent.  
The purpose of this course is to provide learners with knowledge of the relationship between the structure and properties of metals. It introduces students to physical and mechanical properties, strengthening methods, failure modes, and structure modification through thermal processing in ferrous and non-ferrous alloys. (1.2)

MAST-201 Ceramics and Glass Technology  
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.  
Prerequisite: MAST 101 or instructor consent.  
This is an introductory course to the structures and properties of ceramics and glasses. Students also learn the applications and manufacturing processes used for ceramics and glass products. (1.2)

MAST-203 Ferrous and Non-ferrous Metals  
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.  
Prerequisite: MAST 101 or instructor consent.  
The course introduces students to some of the important engineering alloys in terms of their compositions, properties, applications, and fabrication techniques. Students learn about the ferrous and non-ferrous alloys, their mechanical properties, strengthening methods, and heat-treatment processes. (1.2)
MAST 204 Metallurgy of Casting/Welding
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.
Prerequisite: MAST 101 and MAST 102 or instructor consent.
The course introduces students to the metallurgical concepts involved with metal solidification in casting and welding processes. Students learn the basic theory of metal solidification, microstructures in castings and welded joints, casting and welding defects, and their remedies. (1.2)

MAST 205 Polymer & Plastics Technology
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.
Prerequisite: MAST 101 and concurrent enrollment in or successful completion of CHEM 101 or instructor consent.
This course develops an understanding of the molecular and crystal structures of polymers. Students learn the relationships between structure and some of the physical and chemical properties, along with typical applications and forming methods. (1.2)

MAST 206 Composite Materials Technology
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.
Prerequisite: MAST 205 or instructor consent.
This course introduces students to the structures, properties and processing of composite materials. The topics cover particle-reinforced composites, fiber-reinforced composites and structural composites. (1.2)

MAST 207 Statistical Quality Control
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.
Prerequisite: ENGT 105 and MATH 223 or instructor consent.
The course involves the application of quality concepts to manufacturing environments, using statistics, sampling techniques, probability, and control charts. Students learn how to develop and use statistical techniques to collect and analyze data to control quality and produce meaningful conclusions about processes. (1.2)

MAST 209 Failure Analysis and Corrosion
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.
Prerequisite: MAST 101 or instructor consent.
This course introduces students to the principles of corrosion and failure analysis which includes electrochemistry nature of corrosion, types of corrosion, corrosion rates, corrosion behavior of ferrous and non-ferrous metals, high-temperature corrosion, corrosion testing and control, methodology of materials failure analysis, common types of metallic failures, and failure analysis case studies. (1.2)

MAST 220 Electronic Materials Tech.
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.
Prerequisite: MAST 101 or instructor consent.
The course introduces students to the science of electronic materials. Students learn about the relationships between the internal structure, chemistry and physics of semiconductors, magnetic, and photonic materials to their electronic and optical properties, applications, and methods of device fabrication. (1.2)

MAST 230 Non-destructive Testing
2 cr. hrs.; 1 lecture hours; 2 lab hours per week.
Prerequisite: MAST 101 or instructor consent.
Students are introduced to the methods, procedures, and equipment associated with non-destructive testing of materials. The course will include the principles involved in visual inspection, dye-penetrant testing, magnetic flux testing, ultrasonic testing, radiographic testing, and eddy current testing techniques. (1.2)

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MATH 108 Statistics for General Education
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
Prerequisites: Appropriate placement score or MATH 086, 090, 091 or 094 “C” or better. Appropriate placement score; or MATH 086, 091, or 094 “C” or better
Statistics for General Education focuses on mathematical reasoning and the solving of real-life problems, rather than on routine skills. This course consists of descriptive methods (frequency distributions, graphing, measures of location, and measures of variation), basic probability theory (sample spaces, counting, factorial rule, combinations, permutations, and probability laws), probability distributions (normal, binomial, and the Poisson distributions), statistical inference (interval estimation and hypothesis testing), correlation, simple linear regression, and analysis of variance. Statistics for General Education focuses on statistical reasoning and the solving of problems using real-world data rather than on computational skills. Technology-based computations (such as graphing calculators with a statistical package, spreadsheets, or statistical computing software) are utilized with an emphasis on interpretation and evaluation of statistical results. The course includes data collection processes (observational studies, experimental design, sampling techniques, and bias), quantitative and qualitative data, descriptive methods (frequency distributions, graphs, measures of center, and measures of variation), basic probability theory (sample spaces and probability laws), probability distributions (normal distributions, normal curves, and binomial distributions), confidence intervals, hypothesis tests using P-values, bivariate data, correlation, and simple linear regression. IAI: M1 902 (1.1)

MATH 110 Mathematics for General Education
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
Prerequisites: Appropriate placement score; or MATH 086, 090, 091 or 094 “C” or better. Appropriate placement score; or MATH 086, 091 or 094 “C” or better
A course designed to contribute to the general education of any college student. Focuses on mathematical reasoning and solving contemporary problems. Topics include mathematics of finance, statistics, and two of the following: sets and logic, counting and probability, game theory, linear programming, geometry, mathematical modeling, and graph theory. Math for General Education contributes to the general education of any
college student. The course focuses on mathematical reasoning and solving contemporary problems. Topics include mathematics of finance, statistics, and one of the following: sets and logic, counting and probability, game theory, linear programming, geometry, mathematical modeling, or graph theory. IAI: M1 904 (1.1)

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MATH 112  College Algebra
4 cr. hrs.; 4 lecture hours; 0 lab hours per week.
Prerequisites: Appropriate initial placement score (within the last 6 months) or MATH 086 or 090 or 091 “C” or better and MATH 085 “C” or better—Appropriate placement score; or MATH 086 or 091 “C” or better, and MATH 085 “C” or better. Includes theory, graphs, and applications of polynomial, rational, exponential, and logarithmic functions (including symmetry and translations); inequalities, radicals, complex numbers, conics, systems of equations and matrices. Maximum credit for students taking any combination of MATH 112, 116 and 118 is 7 credit hours. College Algebra includes properties of functions, graphs of functions, polynomial functions, rational functions, exponential functions, logarithmic functions, systems of equations, matrices, and conic sections. Maximum credit for students taking any combination of MATH 112, 116, and 118 is 7 credit hours. (1.1)

MATH 116  Trigonometry
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
Prerequisites: Appropriate placement score; or MATH 112 “C” or better; or concurrent enrollment in MATH 112. MATH 112 “C” or better; or concurrent enrollment in MATH 112. Includes circular functions, identities, conditional equations, right triangle trigonometry, solution of oblique triangles, inverse functions, complex numbers, and polar coordinates. Maximum credit for students taking any combination of Math 112, 116 and 118 is 7 credit hours. Includes trigonometric functions, identities, conditional equations, right triangle trigonometry, solution of oblique triangles, inverse trigonometric functions, complex numbers, and polar coordinates. Maximum credit for students taking any combination of MATH 112, 116, and 118 is 7 credit hours. (1.1)

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Montessori

MEC 100  Montessori Hist & Phil.
3 cr. hr.; 3 lecture hours; 0 lab hours per week.

This will be a general overview of Montessori’s principles and ideas, her view of the child and his/her place in society, with emphasis on Montessori’s concept of the child from birth through preschool. Also included will be the scientific analysis of how to nurture and assist the unfolding of the human personality; care of physical and psychological needs; daily routines as curriculum; strategies for assistance; interactional techniques with children; positive communication—with emphasis on personal development of the adult caregiver and the qualities of the adult based on Montessori’s view of the child; developmental assessment and record keeping. (1.2)

MEC 101  Montessori Child Growth & Dev.
3 cr. hr.; 3 lecture hours; 0 lab hours per week.
This is an in-depth analysis of Montessori’s theory of child development along with an historical survey of the other influential psychologies of our time. Current research and issues in children development are emphasized. (1.2)

MEC 102  Montessori Infant/Toddler Activ & Prog
3 cr. hr.; 3 lecture hours; 0 lab hours per week.
This course will focus on the Montessori philosophy for environmental design and education to accommodate infants and toddlers. It will also introduce the student to ways to develop mutual cooperation and support with families of infants and toddlers. (1.2)

MEC 103  Montessori Program Leadership and Dev.
3 cr. hr.; 3 lecture hours; 0 lab hours per week.
This course will give the student an understanding of state, local and American Montessori Society standards and requirements in order to start understanding the administrative issues around Montessori programs. This course will also focus on the techniques of observation, documentation of observation, assessment and evaluation. (1.2)

MEC 104  Montessori Early Childhood Activ & Prog
3 cr. hr.; 3 lecture hours; 0 lab hours per week.
This course will focus on the Montessori philosophy for environmental design and curriculum for early childhood. It will also introduce the student to ways to develop mutual cooperation and support with families of children in early childhood. (1.2)

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NURS 122A  Psychosocial Nursing Concepts
5 cr. hrs.; 3.5 lecture hours; 4.5 lab hours per week.
Prerequisites: NURS 112 or NURS 112P. NURS 138, and BIOL 146 “B” or better; for transfer students concurrent enrollment in NURS 138. Co-requisite PSYC 200.
Psychosocial Nursing Concepts is designed to assist students in developing clinical reasoning skills as they utilize the nursing process and nursing skills to plan and provide care for selected clients. This course will include the nursing care and management of pediatric, adolescent and adult patients with a
focus on the nurse’s role in the care of individuals who experience difficulty with psychosocial adaptation. (1.2)

**NURS 122B Physiological Nursing Concepts**
5 cr. hrs.; 3.5 lecture hours; 4.5 lab hours per week.
Prerequisites: NURS 112 or NURS 112P, NURS 138, and BIOL 146 “B” or better; for transfer students concurrent enrollment in NURS 138. Co-requisite PSYC 200.

Physiologic Nursing Concepts focuses on the problems of fluid and electrolytes, acid/base balance, metabolism, tissue perfusion, and altered protection. This course is designed to assist students in developing clinical reasoning skills as they utilize the nursing process and nursing skills to plan and provide care for selected patients. This course will include the nursing care and management of adult patients with fluid/electrolyte and acid/base imbalances, diabetes, peripheral vascular disease, cancer and problems of the immune system. Physiological Nursing Concepts focuses on the problems of fluid and electrolytes, acid/base balance, metabolism, tissue perfusion, and altered protection. This course is designed to assist students in developing clinical reasoning skills as they utilize the nursing process and nursing skills to plan and provide care for selected patients. This course will include the nursing care and management of adult patients with fluid/electrolyte and acid/base imbalances, diabetes, cancer and problems of the immune system. (1.2)

**NURS 138 Intro to Professional Nursing**
1 cr. hr.; 1 lecture hour; 0 lab hours per week.
Prerequisites: Concurrent enrollment in NURS 112; or NURS 112P and BIOL 146 “B” or better or concurrent enrollment; for transfer students concurrent enrollment in NURS 122A, NURS 122B or NURS 216.

Introduction to Professional Nursing provides the Associate in Applied Science Degree Nursing students with a foundation for future classes and professional practice through increased understanding of the role and responsibilities of the Professional Registered Nurse and the current and projected practice environment. This course serves to synthesize prerequisite knowledge, and to prepare students for the rigors of the Associate Degree Nursing Program and practice subsequent to graduation and successful completion of the NCLEX-RN examination. (1.2)

**NURS 142 Nurse Success Strategies**
1 cr. hr.; 1 lecture hour; 0 lab hours per week.
Prerequisite: Below appropriate score for nationally-normed entrance exam for AAS-RN program; or instructor consent.

This course is designed to remedy any learning deficiencies in skills that are essential for success in the Associate Degree Nursing program or Practical Nursing program which are identified through nationally-normed standardized tests. This course focuses on the nursing-specific and prerequisite content necessary for success in the program. Much learning will be individualized to address each student’s specific areas for improvement. This course is designed to remedy any learning deficiencies in skills that are essential for success in the Associate Degree Nursing program which are identified through nationally-normed standardized tests. This course focuses on the nursing-specific and prerequisite content necessary for success in the program. Learning will be individualized to address each student’s specific areas for improvement. (1.2)

**NURS 150 Dosage Calculations**
1 cr. hr.; 1 lecture hours; 0 lab hours per week.
Prerequisites: Admission into the Associate Degree Nursing program NURS 112 “C” or better.

This course is designed to remedy any learning deficiencies in skills that are essential for success in the Associate Degree Nursing program or Practical Nursing program which are identified through nationally-normed standardized tests. This course focuses on the nursing-specific and prerequisite content necessary for success in the program. Much learning will be individualized to address each student’s specific areas for improvement. This course is designed to remedy any learning deficiencies in skills that are essential for success in the program. Much learning will be individualized to address each student’s specific areas for improvement. (1.2)

**NURS 153 Clinical Reasoning in Nurs Sim**
1 cr. hr.; 1 lecture hour; 0 lab hours per week.
Prerequisites: NURS 112 or NURS 112P or PN 111 and PN 112 “C” or better.

A nursing course designed to incorporate the nursing process, QSEN (Quality and Safety in Education for Nurses), and clinical reasoning in a simulation environment. This course will allow students to practice in a “safe” environment, clinical skills and clinical reasoning. A nursing course designed to incorporate the nursing process, QSEN (Quality and Safety in Education for Nurses), and clinical reasoning in a simulation environment. This course will allow students to practice clinical skills and clinical reasoning in a “safe” environment. (1.2)

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**NURS 216 Nursing Concepts 3**
10 cr. hrs.; 6 lecture hours; 12 lab hours per week.
Prerequisites: NURS 122A, NURS 122B, BIOL 261, ENG 101 and PSYC 200 “C” or better.

Nursing Concepts 3 focuses on the nurse’s role in the care of infants, children, and adolescents; pregnant, laboring, or postpartum women, their newborn(s) and significant other(s); and individuals who experience difficulty with aging, chronic illness and/or disability. The student will utilize the nursing process within the nurse-patient relationship in assisting patients and their families achieve or maintain their optimal level of wellness. This course is designed to assist students in developing critical thinking skills as they utilize the nursing process and nursing skills to plan and provide care for selected patients. This course will include the nursing care and management of patients during pre-pregnancy, antepartum, intrapartum, and postpartum; who are younger than 18 years; and across the lifespan who are coping with altered nutritional,
NURS 226 Nursing Concepts 4
10 cr. hrs.; 6 lecture hours; 12 lab hours per week.
Prerequisites: NURS 216 and SOC 264 "C" or better; Concurrent enrollment in NURS 230 or prior completion "C" or better

Nursing Concepts 4 focuses on the nurse’s role in the care of individuals who experience difficulty with oxygenation, fluid and electrolytes, mobility, sensation, cognition, regulation and metabolism, trauma and care coordination. Learning experiences are designed to foster increased depth and understanding of altered homeostasis and its effect on the client and their family. Emphasis is placed on experiences to enhance utilization of the nursing process and develop clinical reasoning techniques as they apply to the more seriously ill patient. Prototypes of health problems will be used to represent the selected concepts.

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PN 105 Pharmacology I
1 cr. hr.; 1 lecture hour; 0 lab hours per week.
Prerequisites: Admission to Practical Nursing Program Concurrent enrollment in PN 111 or PN 112.
Basic mathematics as it applies to medication administration is reviewed. The study of drugs and the techniques of medication administration are begun. (1.2)

PN 106 Pharmacology II
1 cr. hr.; 1 lecture hour; 0 lab hours per week.
Prerequisites: PN 105 and PN 112 "C" or better; concurrent enrollment in PN 113 or PN 114.
Drug classifications are studied through the structure of the nursing process. (1.2)

PN 111 Foundations of Practical Nurs.
8 cr. hrs.; 6 lecture hours; 6 lab hours per week.
Prerequisites: Admission to Practical Nursing Program; concurrent enrollment in PN 105.
Within the framework of the nursing process, the course teaches the concepts basic to practical nursing. Dimensions of nursing,
basic needs and special procedures are covered. With guidance, the nursing process is used in the care of patients with simple health problems. (1.2)

PN 112 Older Adult Nursing
8 cr. hrs.; 6 lecture hours; 6 lab hours per week.
Prerequisite: PN 111 “C” or better; concurrent enrollment in PN 105.
This course covers normal aging and age-related changes in the older adult. It includes problems of mobility and circulation. It also includes concepts of mental health nursing and therapeutic communication. (1.2)

PN 113 Adult Health Nursing
8 cr. hrs.; 6 lecture hours; 6 lab hours per week.
Prerequisites: PN 105 and PN 112 “C” or better; concurrent enrollment in PN 106.
Within the framework of the nursing process, theories of nursing care for patients with acute medical-surgical problems are discussed. (1.2)

PN 114 Intergenerational Nursing
8 cr. hrs.; 6 lecture hours; 6 lab hours per week.
Prerequisites: PN 105 and PN 113 “C” or better; concurrent enrollment in PN 106.
Care of families through child-bearing, well children, ill children, and all family members through the lifespan. Concepts of growth and development, effects of illness on families, and care of clients in the hospital are also discussed. (1.2)

PN 140 Licensure Review
1-5 cr. hrs.; 1.5 lecture hours; 0 lab hours per week.
Assists students who have graduated from a practical nursing program to prepare for NCLEX-PN. Review of principles of all areas of the body of nursing knowledge applicable to practical nursing will be presented. Lecture and discussion will be complemented by practice testing. This course does not guarantee satisfactory results on NCLEX-PN. (1.2)

PN 160 LPN Refresher
6 cr. hrs.; 3 lecture hours; 7 lab hours per week.
Provides a basic review and updating of skills and knowledge for practical nurses preparing to reenter nursing practice. Satisfactory completion of this course will meet one of the requirements for restoration of license after 5 or more years of inactive status or 5 or more years of lapse of licensure. (1.6)

PN 180 Intravenous Therapy
1 cr. hrs.; 0.5 lecture hours; 1.5 lab hours per week.
Prerequisite: Current nursing license or NURS 112 “C” or better.
A basic study of administration and regulation of intravenous infusions. Common intravenous solutions will be discussed. The technique of intravenous therapy will be taught and return demonstration will be done in the lab. Students will have the opportunity to have a clinical component which will allow them to practice in a real setting. This can be a variable entry course with an on-line component. (1.6)

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PTA 213 Physical Agents II
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.
Prerequisite: PTA 208 “C” or better.
Study of physiological effects, indications, contra-indications, and application of a variety of modalities including electrical stimulation devices, traction, and mechanical compression. (1.2)

PTA 214 Practicum II
3 cr. hrs.; 2 lecture hours; 6 lab hours per week.
Prerequisite: PTA 201 “C” or better.
The student will practice previously learned skills in a clinical setting, supervised by a physical therapist. The student will produce documentation pertinent to patient caseload at clinic site but not limited to daily notes, progress notes, and Medicare documentation. (1.2)

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SOC 250 Minority Relations
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
Examines racial, ethnic, and gender minorities. A comprehensive overview of major sociological theories regarding interaction between dominant and minority groups and an investigation of the experiences of minorities in the United States. This course provides a comparative analysis of racial and ethnic groups. It includes examination of elements of group identity, social movements, government policy, individual and institutional discrimination, and related social problems. IAI: S7 903D (1.1)

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THEA 210 Fundamentals of Acting
3 cr. hrs.; 2 lecture hours; 2 lab hours per week.
This course concentrates on the fundamentals of acting: concentration, observation, playing action, voice and other basics are introduced through acting exercises, improvisations, and scene study. Major acting approaches will be used as the basis for helping the actor acquire craft to create believable characters. IAI: TA 914 (1.1)

THEA 211 Acting Styles
3 cr. hrs.; 3 lecture hours; 0 lab hours per week.
Development of the basics introduced in the Fundamentals of Acting (THEA 210), emphasizing an intensive approach to acting—exercises, improvisation, and scene study; an introduction to style. (1.1)
Acceptance of Transfer Credit

Academic credit is generally accepted only from institutions that are accredited by one of the regional accrediting associations. Credit from sources other than Regionally accredited associations must be approved by the appropriate department chair and/or dean. Proficiency examinations may be required to determine the transferability of academic credits from non-accredited sources. Only those credits that are applicable to the student’s curriculum at Black Hawk College will be accepted from non-accredited sources. All transfer credit will be equated to the credit hour system. All transcripts become the official property of Black Hawk College and will not be returned or issued to another institution. An evaluation of transfer credit will be conducted upon admission to the college, and will be based on the current declared program of study.

Per the Illinois Community College Board (ICCB), Black Hawk College will accept credits from Midwest Technical Institute (MTI) if a student has completed one of the following MTI programs: Dental Assisting Certificate (26.5 credit hours); Heating, Ventilation, Air Conditioning, Refrigeration and Major Appliance Repair Certificate (28 credit hours); Journeyman Welder Certificate (27 credit hours); Journeyman Welder II Certificate (36 credit hours); Medical Assisting Certificate (26.5 credit hours); Medical Coding Certificate (28 credit hours); Pharmacy Technician Certificate (26.5 credit hours). These credits will be accepted as electives.

Department Review of Transfer Credit. Certain transfer courses may require subject matter review by the appropriate academic department. This is due to the intensive nature of certain subject matter. Courses that require department review for course equivalency include BIOL 145, BIOL 146, and BIOL 261. In order to request a department review of these courses completed at another institution, an individual must have already applied and been accepted to Black Hawk College. Students must submit a Transfer Credit Department Review Request form and follow the instructions to also include syllabi from the course at the other institution.

A grade of C or better must be achieved and recorded on an official transcript from the prior institution, before course credit will be recorded at Black Hawk College. Approval of course equivalency is at the discretion of the academic department.

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addition to Acceptance of Transfer Credit section on p. 15

Payment of Tuition and Fees. All tuition and fees are due and payable by established due dates, whether or not a bill was received by the student. Students will be dropped for non-payment if payment is not received. Black Hawk College will assess a late fee of $25 to all past due accounts. Students participating in the deferred payment plan will also be assessed a late fee after each late scheduled payment.

Students applying for financial assistance should contact the Financial Aid Office. Please see the Financial Aid section of this catalog for options.

Students documented as using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits may not have their classes dropped or late fees assessed if they meet the requirements outlined in the Veteran’s Benefits section of this catalog.

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2019-20 Academic Catalog, addition to Veterans’ Benefits section on page 18

Veterans’ Benefits

Black Hawk College processes benefits for veterans qualifying under the Post 9/11 GI Bill, the Montgomery GI Bill - Active Duty, and Selected Reserves. Students may also qualify for Dependent’s Educational Assistance or Vocational Rehabilitation benefits. Contact the Veteran’s Center for information.

The Veterans Access, Choice, and Accountability Act of 2014 expanded a veteran's ability to maximize his or her Post-9/11 GI Bill benefit and use that benefit at any public school in the nation regardless of residency restrictions. Students attending Black Hawk College should work closely with the Veterans’ Benefits Coordinator to ensure appropriate documentation is obtained for tuition charges.

In accordance with the Veterans Benefits and Transition Act of 2018, beginning August 1, 2019, Black Hawk College will not take any of the four following actions toward any student documented as using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while their payment from the United States Department of Veterans Affairs is pending to the educational institution:

• Prevent their enrollment;
• Assess a late penalty fee to;
• Require they secure alternative or additional funding;
• Deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, students are required to:
• Produce the VA’s Certificate of Eligibility by the first day of class;
• Provide written request to be certified;
• Provide additional information needed to properly certify the enrollment as described in other institutional policies (see the VA School Certifying Official for all requirements).

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Published October 1, 2019
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Transcripts
BHC transcripts should be ordered online at [www.bhc.edu/transcript](http://www.bhc.edu/transcript). An electronic signature using your mouse and a $6 processing fee are required. All financial obligations to the college must be resolved before the transcript request can be processed. Transcript orders are not accepted by phone.

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Associate in Arts
Physical & Life Sciences. 2 courses (7-8 semester credits) are required. One course selected from Group 1 (Physical Sciences) and one course selected from Group 2 (Life Sciences) and including at least one laboratory course, or both NSCI 101 and NSCI 102.

Group 1 Courses - Physical Sciences
ASTR 101 Astronomy: The Solar System (IAI: P1 906L)
ASTR 102 Astronomy: Stars and Galaxies (IAI: P1 906L)
CHEM 101 General Chemistry I (IAI: P1 902L; CHM 911)
CHEM 110 Introduction to Chemistry (IAI: P1 902L)
CHEM 111 Principles of Organo-Biochemistry (IAI: P1 904L)
PHYS 101 College Physics I (IAI: P1 900L)
PHYS 110 Introduction to Physics (IAI: P1 900L)
PHYS 140 Practical Physics (no lab) (IAI: P1 900)
PHYS 201 Mechanics and Thermal Physics (IAI: P2 900L; PHY 911)
PS 101 Introduction to Physical Science (IAI: P9 900L)
PS 205 Issues in Science, Technology & Society (no lab) (IAI: P9 900)

Group 2 Courses - Life Sciences
BIOL 100 Introduction to Biology (IAI: L1 900L)
BIOL 101 General Human Biology (IAI: L1 904L)
BIOL 105 General Biology I (IAI: L1 910L; BIO 910)

BIOL 106 General Biology II (IAI: L1 910L; BIO 910)
BIOL 190 Animal Diversity (IAI: L1 902L)
BIOL 200 Environmental Bio-Human Impact (no lab) (IAI: L1 905)
BIOL 201 Environmental Bio-Diversity (no lab) (IAI: L1 905)
BIOL 211 General Botany (IAI: L1 901L)
BIOL 250 Genetics (no lab) (IAI: L1 906)
BIOL 251 Genetics Lab (IAI: L1 906L)

Interdisciplinary. Physical/Life Sciences
NSCI 101 Environmental Science I (no lab) (IAI: LP 900)
NSCI 102 Environmental Science II (IAI: LP 901L)

Social and Behavioral Sciences. 3 courses (9 semester credits), with courses selected from at least two disciplines.
ANTH 101 Intro to Physical Anthropology (IAI: S1 902)
• ANTH 102 Intro to Cultural Anthropology (IAI: S1 901N)
ANTH 103 Intro to Archaeology (IAI: S1 903)
ECON 221 Principles of Macro Economics (IAI: S3 901)
ECON 222 Principles of Micro Economics (IAI: S3 902)
HIST 105 History of the US to 1877 (IAI: S2 900)
HIST 106 History of the US since 1877 (IAI: S2 901)
• HIST 141 History of Asia to 1500 (IAI: S2 920N)
• HIST 142 History of Asia since 1500 (IAI: S2 920N)
• HIST 151 History of the Middle East since 1700 (IAI: S2 920N)
• IS 200 Global Issues (IAI: S2 900)
POLS 101 Introduction to Political Science (IAI: S5 903)
POLS 122 American National Government (IAI: S5 900)
POLS 252 State and Local Government (IAI: S5 902)
PSYC 101 Introduction to Psychology (IAI: S6 900)
PSYC 200 Human Growth and Development (IAI: S6 902)
PSYC 230 Social Psychology (IAI: S8 900, PSY 908)
PSYC 262 Child Psychology (IAI: S6 903)
PSYC 264 Social Psychology of Aging (IAI: S6 905)
SOC 101 Principles of Sociology (IAI: S7 900)
SOC 102 Contemporary Social Problems (IAI: S7 901)
SOC 250 Minority Relations (IAI: S7 903D)
SOC 251 Sociology of Families (IAI: S7 902)
SOC 264 Social Psychology of Aging (IAI: S6 905)

Humanities
ENG 190 Introduction to Literature (IAI: H3 900)
ENG 206 Minority American Literature (IAI: H3 910D)
ENG 207 Introduction to Women Writers (IAI: H3 911D)
ENG 208 Introduction to Poetry (IAI: H3 903)
ENG 210 Introduction to Fiction (IAI: H3 901)
ENG 213 American Literature I (IAI: H3 914)
ENG 214 American Literature II (IAI: H3 915)
ENG 215 Western Lit. in Translation I (IAI: H3 906)
ENG 216 Western Lit. in Translation II (IAI: H3 907)
ENG 217 African & Caribbean Literature (IAI: H3 908N)
ENG 218 Latin American Literature in Translation (IAI: H3 908N)
ENG 219 Eastern Literatures in Translation (IAI: H3 908N)
ENG 221 British Literature I (IAI: H3 912)
ENG 222 British Literature II (IAI: H3 913)
ENG 223 Introduction to Shakespeare (IAI: H3 905)
ENG 240 Children’s Literature (IAI: H3 918)
ENG 250 Film as Literature (IAI: HF 908)
FREN 202 Intermediate French II (IAI: H1 900)
GERM 202 Intermediate German II (IAI: H1 900)
HIST 125 Western Civilization I (IAI: H2 901)
HIST 127 Western Civilization II (IAI: H2 902)
HIST 222 Comparative Religions (IAI: H5 904N)
HUM 101 Humanities I (IAI: HF 900)
HUM 102 Humanities II (IAI: HF 901)
PHIL 100 Logic (IAI: H4 906)
PHIL 101 Introduction to Philosophy (IAI: H4 900)
PHIL 103 Ethics (IAI: H4 904)
PHIL 206 Philosophy of Religion (IAI: H4 905)
POLS 200 Introduction to Political Thought (IAI: H4 907, PLS 913)
SPAN 202 Intermediate Spanish II (IAI: H1 900)
SPAN 253 Advanced Spanish I (IAI: H1 900)
SPAN 254 Advanced Spanish II (IAI: H1 900)

Consult transfer institution to determine if foreign language is required.

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ASSOCIATE IN SCIENCE

PHYSICAL & LIFE SCIENCES. 3 courses (10-11 semester credits) are required.

- One course selected from Group 1 (Physical Sciences) and one course selected from Group 2 (Life Sciences) and including at least one laboratory course, or both NSCI 101 and NSCI 102.
- One additional course selected from Group 1, Group 2 or Group 3 that is appropriate for the program of study.

GROUP 1 COURSES – PHYSICAL SCIENCES:
ASTR 101 Astronomy: The Solar System (IAI: P1 906L)
ASTR 102 Astronomy: Stars and Galaxies (IAI: P1 906L)
CHEM 101 General Chemistry I (IAI: P1 902L; CHM 911)
CHEM 110 Introduction to Chemistry (IAI: P1 902L)
CHEM 111 Principles of Organo-Biochemistry (IAI: P1 904L)
PHYS 101 College Physics I (IAI: P1 900L)
PHYS 110 Introduction to Physics (IAI: P1 900L)
PHYS 140 Practical Physics (no lab) (IAI: P1 900)
PHYS 201 Mechanics and Thermal Physics (IAI: P2 900L; PHY 911)
PS 101 Introduction to Physical Science (IAI: P9 900L)
PS 205 Issues in Science, Technology & Society

GROUP 2 - LIFE SCIENCES
BIOL 100 Introduction to Biology (IAI: L1 900L)
BIOL 101 General Human Biology (IAI: L1 904L)
BIOL 105 General Biology I (IAI: L1 910L; BIO 910)
BIOL 106 General Biology II (IAI: L1 910L; BIO 910)
BIOL 190 Animal Diversity (IAI: L1 902L)
BIOL 200 Environmental Bio-Human Impact (no lab) (IAI: L1 905)
BIOL 201 Environmental Bio-Diversity (no lab) (IAI: L1 905)
BIOL 211 General Botany (IAI: L1 901L)
BIOL 250 Genetics (no lab) (IAI: L1 906)
BIOL 251 Genetics Lab (IAI: L1 906L)

INTERDISCIPLINARY. PHYSICAL/LIFE SCIENCES
NSCI 101 Environmental Science I (no lab) (IAI: LP 900)
NSCI 102 Environmental Science II (IAI: LP 901L)

GROUP 3 – NATURAL SCIENCES
BIOL 120 Nutrition (no lab)
BIOL 145 Anatomy - Physiology I
BIOL 146 Anatomy - Physiology II
BIOL 190 Animal Diversity
BIOL 207 Selected Topics in Biology
BIOL 261 Microbiology
BIOL 295 Research in Biology
CHEM 102 General Chemistry II (IAI: CHM 912)
CHEM 203 Organic Chemistry I (IAI: CHM 913)
CHEM 204 Organic Chemistry II (IAI: CHM 914)
CHEM 206 Basic Biochemistry (no lab)
CHEM 295 Research in Chemistry (no lab)
PHYS 102 College Physics II
PHYS 202 Electricity and Magnetism (IAI: PHY 912)
PHYS 214 Modern Physics (no lab)

HUMANITIES AND FINE ARTS. 2 courses (6 semester credits), with one selected from humanities and one from fine arts.

HUMANITIES
ENG 190 Introduction to Literature (IAI: H3 900)
ENG 206 Minority American Literature (IAI: H3 910D)
ENG 207 Introduction to Women Writers (IAI: H3 911D)
ENG 208 Introduction to Poetry (IAI: H3 903)
ENG 210 Introduction to Fiction (IAI: H3 901)
ENG 213 American Literature I (IAI: H3 914)
ENG 214 American Literature II (IAI: H3 915)
ENG 215 Western Lit. in Translation I (IAI: H3 906)
ENG 216 Western Lit. in Translation II (IAI: H3 907)
ENG 217 African & Caribbean Literature (IAI: H3 908N)
ENG 218 Latin American Literature in Translation (IAI: H3 908N)
ENG 219 Eastern Literatures in Translation (IAI: H3 908N)
Consult transfer institution to determine if foreign language is required.

Social and Behavioral Sciences. 2 courses (6 semester credits), selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Intro to Physical Anthropology (IAI: S1 902)</td>
</tr>
<tr>
<td>ANTH 102</td>
<td>Intro to Cultural Anthropology (IAI: S1 901N)</td>
</tr>
<tr>
<td>ANTH 103</td>
<td>Intro to Archaeology (IAI: S1 903)</td>
</tr>
<tr>
<td>ECON 221</td>
<td>Principles of Macro Economics (IAI: S3 901)</td>
</tr>
<tr>
<td>ECON 222</td>
<td>Principles of Micro Economics (IAI: S3 902)</td>
</tr>
<tr>
<td>HIST 105</td>
<td>History of the US to 1877 (IAI: S2 900)</td>
</tr>
<tr>
<td>HIST 106</td>
<td>History of the US since 1877 (IAI: S2 901)</td>
</tr>
<tr>
<td>HIST 141</td>
<td>History of Asia to 1500 (IAI: S2 920N)</td>
</tr>
<tr>
<td>HIST 142</td>
<td>History of Asia since 1500 (IAI: S2 920N)</td>
</tr>
<tr>
<td>HIST 151</td>
<td>History of the Middle East since 1700 (IAI: S2 920N)</td>
</tr>
<tr>
<td>IS 200</td>
<td>Global Issues (IAI: S2 900)</td>
</tr>
<tr>
<td>POLS 101</td>
<td>Introduction to Political Science (IAI: S5 903)</td>
</tr>
<tr>
<td>POLS 122</td>
<td>American National Government (IAI: S5 900)</td>
</tr>
<tr>
<td>POLS 252</td>
<td>State and Local Government (IAI: S5 902)</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology (IAI: S6 900)</td>
</tr>
<tr>
<td>PSYC 200</td>
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</tr>
<tr>
<td>PSYC 230</td>
<td>Social Psychology (IAI: S8 900, PSY 908)</td>
</tr>
<tr>
<td>PSYC 262</td>
<td>Child Psychology (IAI: S6 903)</td>
</tr>
<tr>
<td>PSYC 264</td>
<td>Social Psychology of Aging (IAI: S6 905)</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Principles of Sociology (IAI: S7 900)</td>
</tr>
<tr>
<td>SOC 102</td>
<td>Contemporary Social Problems (IAI: S7 901)</td>
</tr>
<tr>
<td>SOC 250</td>
<td>Minority Relations (IAI: S7 903D)</td>
</tr>
<tr>
<td>SOC 251</td>
<td>Sociology of Families (IAI: S7 902)</td>
</tr>
<tr>
<td>SOC 264</td>
<td>Social Psychology of Aging (IAI: S6 905)</td>
</tr>
<tr>
<td>POLS 200</td>
<td>Introduction to Political Thought (IAI: H4 905, PLS 913)</td>
</tr>
</tbody>
</table>

Veterinary Technology

Associate in Applied Science Code: 5017

New students applying to Black Hawk College should select the AAS/General Occupational and Technical Studies (GOTS) until such time as they have been officially accepted by the department into this program.

The Associate in Applied Science in Veterinary Technology prepares students to perform veterinary procedures under the supervision of a veterinarian. Veterinary technicians are primarily employed in veterinary clinics and hospitals.

Admission Requirements:
1. High school graduation or equivalent.
2. A physical examination prior to any clinical coursework.
3. The applicant will shadow a CVT, LVT, or RVT or equivalent for a minimum of 40 hours in an animal care facility under the direction of a licensed veterinarian.

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completion form must be signed by the CVT, LVT, or RVT and veterinarian prior to application.

4. VT Application Process: students are strongly encouraged to get their application in early, as this selection process begins in January and is very competitive. Applications will be accepted starting September 1st. Applicants are interviewed and reviewed for selection in the order in which the program received their application. The program admits up to 32 students each fall. Applications are available online at the department page.

5. Students wishing to apply after March 1st should contact the program director to check whether applications are still being accepted at the department page.

6. Interview with VT selection committee: the interview is part of a written and oral selection process.

7. A rabies vaccination is required prior to admission and required by many clinical sites.

8. Minimum of “C” average in courses previously completed at Black Hawk College and any courses transferred from other colleges is required. All students must achieve grades of “C” or above in all courses required for the Veterinary Technology program.

9. Students must achieve a grade of “C” or above in all VT courses to continue in the program. Final grades below a “C” will result in dismissal from the program.

Readmission is at the discretion of the program director and as space permits.

Students must also successfully document all job shadowing, health and background checks required by academic departments and/or clinical sites prior to admission to program and/or courses.

Suggested Courses Credit Hours

Recommended Courses Prior to Application

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 141 Animal Science</td>
<td>4</td>
</tr>
<tr>
<td>AG 142 Animal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>CS 100 Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>EQ 151 Horse Production &amp; Management</td>
<td>4</td>
</tr>
<tr>
<td>EQ 253 Horse Health Care</td>
<td>4</td>
</tr>
<tr>
<td>SPEC 101 Principles of Speech Communica</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Prerequisites

Program Prerequisites

Courses required for admission to the Veterinary Technology Program (completed or in progress).

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT 100 Intro to Veterinary Technology</td>
<td>2</td>
</tr>
<tr>
<td>Communication Category</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Category or</td>
<td></td>
</tr>
<tr>
<td>AG 281 Agricultural Economics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 100 Introduction to Biology or</td>
<td></td>
</tr>
<tr>
<td>BIOL 101 General Human Biology or</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 105 General Biology I</td>
<td></td>
</tr>
<tr>
<td>CHEM 101 General Chemistry I or</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 110 Introduction to Chemistry</td>
<td></td>
</tr>
</tbody>
</table>

First Semester of VT Coursework

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>VT 102 Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>VT 110 Vet Tech Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>VT 115 Small Animal Health Care I</td>
<td>3</td>
</tr>
<tr>
<td>VT 123 Vet Tech Math</td>
<td>3</td>
</tr>
<tr>
<td>VT 140 Microbiology &amp; Parasitology</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT 111 Vet Tech Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>VT 116 Small Animal Health Care II</td>
<td>3</td>
</tr>
<tr>
<td>VT 130 Repro, Nutrition &amp; Production</td>
<td>3</td>
</tr>
<tr>
<td>VT 150 Lab &amp; Exotic Animal Care</td>
<td>3</td>
</tr>
<tr>
<td>VT 160 Vet Tech Pharmacology</td>
<td>3</td>
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</table>

Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT 166 Clinical Preceptorship</td>
<td>2</td>
</tr>
<tr>
<td>VT 170 Anesthesia &amp; Surgical Prep</td>
<td>2</td>
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Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT 203 Vet Ethics &amp; Critical Thinking</td>
<td>2</td>
</tr>
<tr>
<td>VT 210 Vet Tech Diagnostic Imaging</td>
<td>3</td>
</tr>
<tr>
<td>VT 215 Large Animal Health Care</td>
<td>3</td>
</tr>
<tr>
<td>VT 240 Clin Path &amp; Lab Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>VT 270 Vet Tech Surgery &amp; Nursing</td>
<td>5</td>
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</tbody>
</table>

Fourth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT 202 Veterinary Office Practices</td>
<td>3</td>
</tr>
<tr>
<td>VT 222 National Board (VTNE) Review</td>
<td>2</td>
</tr>
<tr>
<td>VT 241 Clin Path &amp; Lab Procedures II</td>
<td>3</td>
</tr>
<tr>
<td>VT 266 Vet Tech Clinical Internship</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum total hours required for degree 80

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Small Business Management

Certificate Code: 9597 9598
Contact Persons: QC Faculty, Acie Earl 309-796-5267, earla@bhc.edu; East Campus, Advising, 309-854-1709

Small businesses represent the majority of businesses in the United States. This curriculum provides students with the skills and core competencies necessary to successfully start, own, and maintain a small business or franchise. These courses are quite appropriate for those seeking new skills for a career change.

Students complete courses in computerized accounting, business communications, e-commerce, and a simulation to nurture small business management skills. Students learn how to start a new small business, compose a business plan, compile financial statements, and evaluate a small business analyzing its financial statements. Students develop long-term strategies to ensure a small business or franchise is an enriching experience and a rewarding career.
All courses in this curriculum are available online through Black Hawk College.

**Suggested Courses**

**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 121</td>
<td>Accounting with QuickBooks I</td>
<td>2</td>
</tr>
<tr>
<td>BUSN 110</td>
<td>Intro to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 121</td>
<td>Small Business Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 280</td>
<td>Introduction to E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 242</td>
<td>Principles of Supervision or</td>
<td></td>
</tr>
<tr>
<td>BUSN 243</td>
<td>Developing Team Skills</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 245A</td>
<td>Purchasing the Small Business</td>
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</tr>
<tr>
<td>BUSN 245B</td>
<td>The Business Plan</td>
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<tr>
<td>Business Online Elective Elective</td>
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**Second Semester**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BUSN 116</td>
<td>Business Relations</td>
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</tr>
<tr>
<td>BA 113</td>
<td>Business Relations III</td>
<td>1</td>
</tr>
<tr>
<td>BUSN 118</td>
<td>Small Business Simulations</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 160</td>
<td>Business Math I</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 230</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 245C</td>
<td>Financial Statement Analysis</td>
<td>1</td>
</tr>
<tr>
<td>BUSN 245D</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>BE 180</td>
<td>Business Communications</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum total hours required for certificate 34-30

Finance electives: BUSN 195, BUSN 210, BUSN 220, BUSN 260

International Business Electives: BUSN 270, BUSN 272

Marketing Electives: BUSN 236, BUSN 238, BUSN 280, BUSN 284

Management Electives: BUSN 240, BUSN 241, BUSN 243, BUSN 250, BUSN 251, BUSN 266, BL 201, BL 202

**Suggested Business Online Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSN 110</td>
<td>Intro to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 241</td>
<td>Intro to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 270</td>
<td>Intro to International Business</td>
<td>3</td>
</tr>
<tr>
<td>CS 100</td>
<td>Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>ECON 221</td>
<td>Principles of Macro Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 222</td>
<td>Principles of Micro Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

1Students enrolling in BUSN 160 must have an appropriate placement score (see course description).
2Students enrolling in BE 180 must have an appropriate placement score or have taken COMM 105 as a prerequisite.

Effective July 26, 2019

Published August 2019

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**Team Leader**

Certificate Code: 5735-5737

Contact Person: QC Faculty, Acie Earl, 309-796-5267, earla@bhc.edu; Advising.

Students who enroll in the Team Leader Certificate program will pursue a three-semester course of study designed to provide students a more detailed in-depth understanding of business topics, including human resource management and human resource relations. These courses are designed to develop the interpersonal skills needed to lead and manage an effective team. That build upon the courses found in the Lead Employee Certificate program. This certificate helps provide a foundation toward the completion of the Business Management and Marketing degree.

Students who are interested in the Team Leader Certificate will find that the courses in the curriculum are also needed for completion of the Associate in Applied Science degree in Business Management and Marketing.

**Suggested Courses**

**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSN 110</td>
<td>Intro to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 160</td>
<td>Business Math I</td>
<td>3</td>
</tr>
<tr>
<td>BL 201</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BE 180</td>
<td>Business Communications</td>
<td>4</td>
</tr>
<tr>
<td>CS 100</td>
<td>Introduction to Computers</td>
<td>3</td>
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</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 112</td>
<td>Business Relations II</td>
<td>1</td>
</tr>
<tr>
<td>BA 113</td>
<td>Business Relations III</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 170</td>
<td>Accounting Basics – Career I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 171</td>
<td>Accounting Basics I - Lab</td>
<td>1</td>
</tr>
<tr>
<td>BUSN 116</td>
<td>Business Relations</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 266</td>
<td>Business Policy and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 240</td>
<td>Principles of Management or</td>
<td></td>
</tr>
<tr>
<td>BUSN 242</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>BL 201</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 221</td>
<td>Principles of Macro Economics</td>
<td>3</td>
</tr>
<tr>
<td>SPEC 101</td>
<td>Principles of Speech Communication or</td>
<td></td>
</tr>
<tr>
<td>SPEC 111</td>
<td>Business &amp; Professional Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total hours required for certificate 37-41

1Students enrolling in BUSN 160 must have an appropriate placement score (see course description or have taken MATH 103).
2Students enrolling in BE 180 must have an appropriate placement score or have taken COMM 105 as a prerequisite.

**Third Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ACCT 170</td>
<td>Accounting Basics – Career I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 171</td>
<td>Accounting Basics I - Lab</td>
<td>1</td>
</tr>
<tr>
<td>BUSN 230</td>
<td>Principles of Marketing - Lab</td>
<td>1</td>
</tr>
<tr>
<td>BUSN 240</td>
<td>Principles of Management or</td>
<td></td>
</tr>
<tr>
<td>BUSN 242</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 243</td>
<td>Developing Team Skills</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 250</td>
<td>Human Resource Management or</td>
<td></td>
</tr>
<tr>
<td>BUSN 251</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BE 180</td>
<td>Business Communications</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum total hours required for certificate 37-41

1Students enrolling in BUSN 160 must have an appropriate placement score (see course description or have taken MATH 103).
2Students enrolling in BE 180 must have an appropriate placement score or have taken COMM 105 as a prerequisite.
Computer Information Technology
Associate in Applied Science Code: 5378
Contact Persons: QC Faculty, Jamie Hill, 309-796-5284, hillj@bhc.edu; Don Mosier, 309-796-5278, mosierd@bhc.edu.

This degree is offered at the Quad Cities Campus.

The Computer Information Technology Associate in Applied Science degree is a multi-disciplinary degree designed to produce graduates with the knowledge necessary to work in today’s information technology environment.

All students will study a variety of introductory courses consisting of HTML, networking, Windows and Linux operating systems, security, hardware, programming logic and Microsoft Project. With this strong foundation, students can go into depth by selecting a track for specialization. Tracks include IT Support Technician, Network Administration and Secure Software Development. This degree is designed so that an individual may complete one of the related certificate programs (IT Support Technician Certificate, Web Developer Certificate, PC Application Programmer Certificate, and Network Administrator Certificate), and then complete the Computer Information Technology Associate’s degree.

Individuals may also enroll directly in the Computer Information Technology program without any prior coursework. The two-year course of study culminates in the internship which provides valuable on-the-job experience. Many of the courses prepare students for industry-related certifications including CompTIA’s A+ and Network+ and Security+ certifications, Microsoft’s MCITP (Microsoft Certified IT Professional) and MTS certification, Cisco’s CCNA and CCENT certification, and CIW (Certified Internet Web Professional) Foundations exam.

IT Support Technician work involves installing, configuring, repairing, and managing computer hardware and software. Network Administration work manages the back-office by building and configuring networks, installing and configuring servers and workstations, troubleshooting hardware, network, and related problems including routers and switches.

Secure Software Development Track

Suggested Courses

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 105</td>
<td>Computer Science Principles 3</td>
</tr>
<tr>
<td>CIP 170</td>
<td>Web Page Development 3</td>
</tr>
<tr>
<td>CIP 190</td>
<td>Team MS Office/SharePoint 3</td>
</tr>
<tr>
<td>CIP 201</td>
<td>Microsoft Project 1</td>
</tr>
<tr>
<td>ITS 116</td>
<td>Computer Hardware 3</td>
</tr>
<tr>
<td>ITS 125</td>
<td>IT Professional Skills 1</td>
</tr>
<tr>
<td>NETW 120</td>
<td>Basic Computer Networks 3</td>
</tr>
<tr>
<td>ENGT 224</td>
<td>Computer Programming 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
<td>Intro to Structured Programming 3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>Composition I 3</td>
</tr>
<tr>
<td>CIP 181</td>
<td>Advanced Web Page Development 3</td>
</tr>
<tr>
<td>CS 227</td>
<td>Database Management Systems 3</td>
</tr>
<tr>
<td>ITS 112</td>
<td>Operating Systems 3</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>BE 264</td>
<td>Microsoft Access 3</td>
</tr>
<tr>
<td>CIP 150</td>
<td>Secure Coding 3</td>
</tr>
<tr>
<td>CS 121</td>
<td>Intro to Computer Science 4</td>
</tr>
<tr>
<td>NETW 170</td>
<td>Intro to Information Security 3</td>
</tr>
<tr>
<td>General Ed Elective in Humanities, Social Sciences, Science, or Non-Western Studies</td>
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</table>

<table>
<thead>
<tr>
<th>Summer Semester</th>
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<tbody>
<tr>
<td>Math 112</td>
<td>College Algebra 4</td>
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<table>
<thead>
<tr>
<th>Third Semester</th>
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</thead>
<tbody>
<tr>
<td>CIP 182</td>
<td>JavaScript 3</td>
</tr>
<tr>
<td>CIP 201</td>
<td>Microsoft Project 1</td>
</tr>
<tr>
<td>CIP 214</td>
<td>C# Programming 4</td>
</tr>
<tr>
<td>NETW 170</td>
<td>Intro to Information Security 3</td>
</tr>
<tr>
<td>SPEC 101</td>
<td>Principles of Speech Communication 3</td>
</tr>
<tr>
<td>SPEC 111</td>
<td>Business and Professional Communication 3</td>
</tr>
<tr>
<td>CIP 214</td>
<td>C# Programming 4</td>
</tr>
</tbody>
</table>
Emergency Medical Services education is offered through the Allied Health department in cooperation with the Emergency Medical System of Genesis Medical Center, Ilini Campus.

This education prepares individuals for entry-level positions as emergency medical technicians (EMS 100 & 102) and paramedics. The program prepares individuals to provide basic and advanced life support in out-of-the-hospital settings to critically ill and injured persons.

To prepare individuals to function in the pre-hospital role, a combination of educational methods will be used including theory instruction, demonstration and practice of life-saving skills for simulated and real emergency situations. Instruction is provided by physicians specializing in emergency medicine, registered nurses, and paramedics with advanced education in medical and trauma management.

Students must successfully document and meet all health and background checks required by academic programs and/or clinical sites prior to admission to program and/or courses. A physical examination and immunizations are required prior to beginning clinical practice/field time. Completion of pre-admission testing is required (contact Marcella Miner at miner m@bhc.edu for information.)

To seek EMT licensure prior to employment the student must successfully complete the EMT courses (EMS 100 & EMS 102) and sit for either the EMT Illinois Department of Public Health State examination or the National Registry Examination.

To seek Paramedic licensure prior to employment the student must successfully complete the Paramedic Certificate Program and sit for either the Paramedic Illinois Department of Public Health State examination or the National Registry Examination.

Job opportunities include hospitals, private ambulance services, municipal fire, police or rescue squad departments. Volunteer services generally require EMT licensure.

The curriculum in Emergency Medical Service is career-oriented and the applicant must meet the following requirements for admission.

- High school graduation or equivalent
- 18 years of age
- Physical examination is required prior to beginning clinical practice
- Student must achieve a grade of 80% or above in all courses to continue in the program
- Completion of pre-admission testing with appropriate placement score or REA 098, MATH 081 & ENG 091; or approval of EMS program director.

Published July 26, 2019

Emergency Medical Technician – Paramedic Certificate

Certificate Code: 5639

Contact Persons: QC Faculty, Marcella Miner,
309-796-5361, miner m@bhc.edu; First Stop Center,
309-796-5100, Rm. 1-213; East Campus, Advising, 309-854-1709

Suggested Courses
First Semester (Fall, Spring or Summer) Credit Hours
EMS 100 Emergency Medical Technician Basic 8
EMS 102 Emergency Medical Technician Basic Clinical 1
Fall Semester
EMS 110 Paramedic Theory I 7
EMS 112 Paramedic Theory II 8
EMS 114 Paramedic Clinical I 3

Spring Semester
EMS 210 Paramedic Theory III 7
EMS 212 Paramedic Theory IV 7
EMS 214 Paramedic Clinical II 4

Summer Semester
EMS 216 Paramedic Clinical III 5

Minimum total hours required for certificate: 50
Effective Fall 2019

Published July 26, 2019

Medical Billing Specialist Certificate
Certificate Code: 5587
Contact Person: Advising, 309-796-5100; Dr. Betsey Morthland; morthlandb@bhc.edu.

Black Hawk College is no longer accepting new students in the Medical Billing Specialist certificate program, pending ICCB approval of program revisions.

Medical Billing Specialist Certificate is to prepare students for employment in the health care information management area. This certificate enables the student to be employed by hospital billing departments, physicians’ offices, health care clinics, emergency care clinics, chiropractic offices, psychiatric clinics, health insurance companies and HMO offices.

The Medical Billing Specialist will work in jobs that require the knowledge of insurance basics, insurance claims, specific health care insurance carrier’s expectations, strong data entry skills, team working experience with medical coders and medical transcriptionists and others on the health care team, medical terminology, law, liability and medical ethics when working in the healthcare information management area, internet medical billing opportunities, computer keyboarding with Windows, Medical Manager billing software and the ability to communicate effectively - both oral and written, with carriers and their representatives and patients.

To deliver these special skills in this program, this curriculum provides both classroom instruction and hands-on experience in the form of a 240 hour internship.

Primarily, the job would include accounts receivable work, posting receipts, verifying insurance, follow up on insurance claims, customer service, medical bill review, handling all assigned claims to conclusion. Billing Specialists work with insureds and doctors to arrange settlement, work on windows-based programs including Medical Manager software and collections.

Many physicians’ offices would require that the Medical Billing Specialist have some crossover duties required with the receptionist or medical secretary - accepting the duties of scheduling appointments, answering phones, picking up customer information from the hospital, coordination of patient and out patient coding activities, solving and correcting errors in billing and physician scheduling.

Suggested Courses
First Semester
BE 100 Orientation to Work Environment 2
BE 110 Data Entry 1
BE 111 Computerized Keyboarding I 3
BIOL 150/HIM 150 Technical Medical Terminology 3

Second Semester
BE 180 Business Communications 4
HIM 200 Advanced Medical Terminology 3
HIM 249 Management of Health Information 3
HIM 251 Medical Office Procedures 3
HIM 255 Management of Electronic Health Records 3

Third Semester
HIM 254 Law, Liability and Medical Ethics 3
HIM 261 Seminar 1
HIM 265 Internship 3
Elective 3

Minimum total hours required for Certificate 38
Effective July 26, 2019

Published July 26, 2019

Physical Therapist Assistant
Associate in Applied Science Code: 5179
Contact Persons: General Advising: QC Campus First Stop Center 309-796-5100, Room 1-213; East Campus Advising 309-854-1709. Program Faculty: Larry Gillund, MS, MSPT, Program Director; 309-796-5393 or gillundl@bhc.edu; Dianne Abels, MSPT, ACCE; 309-796-5394 or abelds@bhc.edu.

New students applying to Black Hawk College should select the AAS/General Occupational and Technical Studies (GOTS) until such time as they have been officially accepted by the department into this program.

The Associate in Applied Science in Physical Therapist Assistant prepares students to perform physical therapy procedures under the supervision of a physical therapist. Physical therapist assistants are primarily employed in hospitals, extended care and nursing home facilities, and in private practices.
Employment of Physical Therapist assistants is expected to grow much faster than average for all occupations through 2024.

The Physical Therapist Assistant Program at Black Hawk College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax St., Alexandria, Virginia 22314; telephone: 703-706-3245; e-mail: accreditation@apta.org; website: http://www.capteonline.org.

Admission Requirements:
1. High school graduation or equivalent.
2. A physical examination prior to any clinical coursework.
3. The program admits 24 students for each incoming class.
4. How to apply to the PTA program: Please refer to the program website www.bhc.edu/PTA for more detailed information and guidelines on the application process.
5. Applications are available online at: www.bhc.edu/PTA.
6. Interview with PTA selection committee. The interview is part of a written and oral selection process.
7. Minimum of “C” average in courses previously completed at Black Hawk College and any courses transferred from other colleges.

Students must also successfully document and need all health and background checks required by academic departments and/or clinical sites prior to admission to program and/or courses.

Students completing this program will be able to:
• Demonstrate behaviors that provide patient safety and appropriate critical thinking skills commensurate with the practicing health care environment.
• Demonstrate safe and evidence-based treatment interventions, competence in data collection commensurate with conditions and diseases in today's health care environment.
• Demonstrate ability to practice under a supervising physical therapist and adhere to the policies and procedures bestowed upon the PTA in that health care environment.
• Demonstrate behaviors appropriate for the delivery of physical therapy services showing respect to individual and cultural diversities, including verbal, non-verbal and written communication skills that ensure patient, family, and healthcare comprehension and safety.
• Participate in progression and development in individual careers based upon personal interests, practicing environment, and self-assessment needs that facilitates life-long learning.
• Demonstrate adherence to Standards of Ethical Conduct established by the APTA and represent the highest expectations from the physical therapy profession.
• Demonstrate clinical critical thinking skills by identifying when to modify patient treatments within the plan of care established by the supervising physical therapist.

Suggested Courses

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 145 Anatomy - Physiology I</td>
<td>4</td>
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<tr>
<td>BIOL 150 Medical Terminology</td>
<td>3</td>
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<tr>
<td>ENG 101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>PTA 100 Introduction to PTA</td>
<td>3</td>
</tr>
<tr>
<td>PTA 113 Physical Agents I</td>
<td>2</td>
</tr>
<tr>
<td>PTA 201 Kinesiology</td>
<td>4</td>
</tr>
<tr>
<td>PTA 207 Massage</td>
<td>1</td>
</tr>
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<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 146 Anatomy - Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 101 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PTA 202 Physical Rehabilitative Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PTA 203 Pathology</td>
<td>2</td>
</tr>
<tr>
<td>PTA 204 Practicum I</td>
<td>3</td>
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<td>PTA 207 Massage</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>PSYC 200 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>PTA 205 Physical Therapy Science</td>
<td>2</td>
</tr>
<tr>
<td>PTA 208 Therapeutic Exercise I</td>
<td>3</td>
</tr>
<tr>
<td>PTA 214 Practicum II</td>
<td>3</td>
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<tr>
<td>SPEC 114 Interpersonal Communication</td>
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<table>
<thead>
<tr>
<th>Fourth Semester</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 108 Statistics for General Education or CS 100 Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>PTA 209 Therapeutic Exercise II</td>
<td>4</td>
</tr>
<tr>
<td>PTA 213 Physical Agents II</td>
<td>2</td>
</tr>
<tr>
<td>PTA 290 Clinical Seminar</td>
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<tr>
<td>SPEC 175 Intercultural Communication</td>
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<thead>
<tr>
<th>Fifth Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTA 280 Clinical Internship I</td>
<td>4</td>
</tr>
<tr>
<td>PTA 281 Clinical Internship II</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum total hours required for degree 72

Upon completion of this course of study, students will be eligible to take the board examination to become a licensed Physical Therapist Assistant. (The student is bound by the Illinois Physical Therapy Act: Paragraph 4257/Section 7 and Paragraph 4258.1/Section 8.1).

Effective August 2019
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Program deletion
Published July 26, 2019

Fire Service Officer
Associate in Applied Science Code: 5022
Contact Person: QC Campus, Seref Onder, Rm. 2-259, 309-796-5281

Black Hawk College is no longer accepting new students in the Fire Service Officer AAS, pending ICCB approval of program revisions.
The Fire Service Officer curriculum is primarily designed for employed fire fighters and volunteer fire fighters who are seeking to upgrade job skills. The program will provide necessary skills, knowledge and competencies utilized in the management and operations of facilities, services, and personnel in the fire science field. Students will receive instruction which will allow them the opportunity to specialize, to increase job competency, to become promotable and to prepare for certification through the office of the Illinois State Fire Marshall. Students completing the recommended courses are well prepared to compete for positions in the fire science field.

Students who complete this program will be able to:

- Describe the history and culture of the Fire Service as it pertains to all divisions and disciplines.
- Identify the primary responsibilities of personnel in the varied roles in the fire service.
- Discuss and explain fire behavior as it pertains to fire ignition, growth and travel.
- Critique operations of a fire, discuss decision-making and consider fallout of poor decisions in fire science.
- Review “after action reports” to determine areas needing correction/development on the fire ground.
- Develop management, fire operations and manpower objectives as they apply to different fire scenarios and events.
- Demonstrate understanding of EMS training, patient didactics and practical skills.
- Identify the needs for effective training programs for the fire service at the local and state level as well as the higher education level.
- Relate the knowledge needed to advance to higher levels in the fire service to achieve officer status not excluding the chief officer ranks.

Suggested Courses

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>ENG 101</td>
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<td>FSO 112</td>
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<tr>
<td>FSO 118</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>4</td>
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</table>

Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102</td>
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</tr>
<tr>
<td>ENG 132</td>
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<tr>
<td>FSO 114</td>
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<tr>
<td>FSO 115</td>
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<tr>
<td>FSO 212</td>
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</tr>
<tr>
<td>Humanities Elective</td>
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<tr>
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Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>FSO 215</td>
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<tr>
<td>FSO 224</td>
<td>3</td>
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<tr>
<td>PSYC 101</td>
<td>3</td>
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<tr>
<td>Speech Elective</td>
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Fourth Semester

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>FSO 218</td>
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</tr>
<tr>
<td>FSO 225</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>3</td>
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<tr>
<td>Mathematics Elective</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
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</tbody>
</table>

Minimum total hours required for degree: 64

Effective August 2018

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Published September 4, 2019

Agriculture Transfer

Associate in Science Code: 7519 1519

Contact Persons: East Campus, Dr. Jeffrey Hawes, 309-854-1835, Rm. B-224, East Campus Recruiter, 309-854-1724, Rm. A-203

Students who plan to complete a bachelor’s program with a major in agriculture are encouraged to enroll in the Agriculture Transfer Program at Black Hawk College East Campus.

All East Campus courses have been articulated with the four Illinois universities which offer degrees in agriculture including: Illinois State University (Normal), Southern Illinois University (Carbondale), Western Illinois University (Macomb), and University of Illinois (Champaign/Urbana). These articulation agreements allow students completing the associate degree in agriculture to continue their education at these four-year institutions without loss of credits.

Many BHC East Campus agriculture graduates have successfully transferred to universities across the country, such as Purdue, Iowa State, Michigan State, Oklahoma State, Kansas State, Colorado State, and Texas A & M.

Students should work closely with an academic adviser to plan a two-year program designed for successful transfer of credits.

Suggested Courses

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 100</td>
<td>1</td>
</tr>
<tr>
<td>ENG 101</td>
<td>3</td>
</tr>
</tbody>
</table>
*AG Electives | 4            |
| Mathematics  | 3            |
| Physical or Life Science | 4        |
Second Semester
ENG 102  Composition II 3
SPEC 101  Principles of Speech Communica 3
*AG Electives 4
Mathematics 3
Physical or Life Science 4

Third Semester
*AG Electives 4
Humanities 3
Computer Science 3
Non-Western Studies 3
Physical or Life Science 3

Fourth Semester
*AG Electives 7
Fine Arts 3
Social and Behavioral Sciences 3
Social and Behavioral Sciences 3

Minimum total hours required for degree 64

* A minimum of 19 elective hours in agriculture are required in the Agriculture Transfer Program. Suggested electives include: (fall semester) AG 280, AG 281, AG 285, or AG 287; (spring semester) AG 282, AG 283, HORT 284, AG 288, AG 289.