<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCIS 2390</td>
<td>Systems Analysis &amp; Design</td>
<td>3-0</td>
<td>Analysis of business information needs and preparation of specifications and requirements for appropriate data system solutions. Includes instruction in information requirements analysis, specification development and writing, prototype evaluation, and network application interfaces.</td>
</tr>
<tr>
<td>BIOL 1322</td>
<td>Nutrition &amp; Diet Therapy</td>
<td>3-0</td>
<td>Study of the chemical, physical, and sensory properties of food; nutritional quality; and food use and diet applications. May not be used as a core science requirement.</td>
</tr>
<tr>
<td>BIOL 1406</td>
<td>Biology for Science Majors I</td>
<td>4-3</td>
<td>This general biology course (first semester) is devoted to principles shared by all organisms. These principles are cell biology, energy, genetics, evolution, and ecology.</td>
</tr>
<tr>
<td>BIOL 1407</td>
<td>Biology for Science Majors II</td>
<td>4-3</td>
<td>This general biology course (second semester) is devoted to particular organisms. Much of the emphasis is on vertebrate biology. The principles studied are diversity, plant biology, animal biology, and behavior. Dissection required. Prerequisite: BIOL 1406.</td>
</tr>
<tr>
<td>BIOL 1408</td>
<td>Introduction to Biology I</td>
<td>4-3</td>
<td>Fundamental principles of living organisms including physical and chemical properties of life, organization, and function. Concepts of reproduction, genetics, and the scientific method are included. This course is suitable as a required lab science for non-biology majors and may not be substituted for BIOL 1406.</td>
</tr>
<tr>
<td>BIOL 1409</td>
<td>Introduction to Biology II</td>
<td>4-3</td>
<td>Fundamental principles of living organisms including evolutionary adaptation and classification. Concepts of evolution, ecology, and the scientific method are included. This course is suitable as a required lab science for non-biology majors and may not be substituted for BIOL 1407. Prerequisite: BIOL 1408.</td>
</tr>
<tr>
<td>BIOL 1424</td>
<td>Systematic Botany</td>
<td>4-3</td>
<td>Introduction to the identification, classification, and evolutionary relationships of vascular plants with emphasis on flowering plants. Includes the importance of herbaria, collection techniques, and the construction and use of taxonomic keys.</td>
</tr>
<tr>
<td>BIOL 2289</td>
<td>Academic Cooperative</td>
<td>2-0</td>
<td>An instructional program designed to integrate on-campus study with practical hands-on work experience in the biological sciences/life sciences. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of living organisms and their systems. Prerequisite: BIOL 1406 and 1407 or BIOL 2401 and 2402.</td>
</tr>
<tr>
<td>BIOL 2106</td>
<td>Environmental Biology Lab</td>
<td>1-0</td>
<td>This course is designed to enable students to become proficient in human interaction with and effect upon plant and animal communities. Conservation, pollution, energy, and other contemporary ecological problems. Co-requisite: BIOL 2306.</td>
</tr>
<tr>
<td>BIOL 2306</td>
<td>Environmental Biology</td>
<td>3-0</td>
<td>This course is designed to enable students to become proficient in human interaction with and effect upon plant and animal communities. Conservation, pollution, energy, and other contemporary ecological problems. Co-requisite: BIOL 2106.</td>
</tr>
<tr>
<td>BIOL 2401</td>
<td>Anatomy and Physiology I</td>
<td>4-3</td>
<td>This course is designed to produce student proficiency in body organization, the skeletal system, the muscular system, and the nervous system. Laboratory work will include dissection of a mammal. Dissection required. Prerequisite: Requires “C” or greater in BIOL 2401.</td>
</tr>
<tr>
<td>BIOL 2402</td>
<td>Anatomy and Physiology II</td>
<td>4-3</td>
<td>This course is designed to enable students to become proficient in the following biological systems: the circulatory system with special emphasis on the blood and heart, the respiratory system, the digestive system, and the reproductive system. Laboratory work will include dissection of a mammal. Dissection required. Prerequisite: Requires “C” or greater in BIOL 2401.</td>
</tr>
<tr>
<td>BIOL 2416</td>
<td>Genetics</td>
<td>4-3</td>
<td>This course is designed to enable students to become familiar with the following topics in genetics: the physical basis and the chemical basis of heredity, the laws of heredity and variation, mitotic and meiotic cell division, and the study of human diseases that are caused by genetic defects. Prerequisite: BIOL 1406 and 1407 or BIOL 2401 and 1402.</td>
</tr>
<tr>
<td>BIOL 2421</td>
<td>Microbiology for Science Majors</td>
<td>4-3</td>
<td>The study of the morphology, physiology, and taxonomy of representative groups of pathogenic and nonpathogenic microorganisms. Pure cultures of microorganisms grown on selected media are used in learning laboratory techniques. Includes a brief preview of food microbes, public health, and immunology. Prerequisite: BIOL 1406 or BIOL 2401 or CHEM 1405 or CHEM 1411 or permission of instructor.</td>
</tr>
<tr>
<td>BMGT 1301</td>
<td>Supervision</td>
<td>3-0</td>
<td>The role of the supervisor. Includes managerial functions as applied to leadership, counseling, motivation, and human relations skills. Students will explain the role, characteristics, and skills of a supervisor; identify the principles of management at the supervisory level; identify and discuss the human relations skills necessary for supervision; explain motivational techniques; and cite examples of how motivational techniques can be used by a supervisor in a working environment.</td>
</tr>
<tr>
<td>BMGT 1305</td>
<td>Communications in Management</td>
<td>3-0</td>
<td>Basic theory and processes of communication skills necessary for the management of an organization’s workforce. Students will explain the communication process; identify and remedy major communication barriers; describe how communication contributes to effective management.</td>
</tr>
</tbody>
</table>
ENGL 1301 Composition and Rhetoric
3 Hours (3-0)
A course designed to enable students to develop reading and writing skills by studying diction, syntax, paragraph development, grammar, vocabulary, and essay organization and by writing expository paragraphs and essays. Course assignments will include a minimum of 6000 words of writing. Prerequisite: 220+ THEA Writing and 230 THEA Reading or 70/6 Compass Writing and 81 Compass Reading or successful completion of developmental education sequence. Co-requisite: ENGL 0181, when taken as culmination of developmental education sequence.

ENGL 1302 Composition and Literature
3 Hours (3-0)
A course designed to enable students to further their composition skills by writing multi-paragraph essays, including a research paper; to write logically; and to read, research, analyze, and discuss the literary genres of poetry, short fiction, and drama. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1301.

ENGL 2307 Creative Writing
3 Hours (3-0)
A course designed to enable students to investigate and discuss the creative process, to study and practice techniques of creative writing; and to read, analyze, discuss, and write two or more of the following: narrative essays, poems, short stories, and researched reviews/abstracts. Course assignments will include a minimum of 6000 words of writing. Credit will be given only once for ENGL 2307.

ENGL 2308 Advanced Studies in Creative Writing
3 Hours (3-0)
An advanced course designed to enable students to investigate and discuss the creative Process; to study and practice techniques of creative writing; and to read, analyze, discuss, and write one or more of the following: narrative essays, poems, short stories, and plays. Credit will be given only once for ENGL 2308. Prerequisite: ENGL 1301.

ENGL 2311 Technical Writing
3 Hours (3-0)
A course designed to enable students to organize and prepare basic technical materials in the following areas: abstracts: proposals, technical descriptions, instructional processes, informational processes, technical definitions, progress reports; formal technical reports, graphics, and business correspondence. Course is designed also to enable students to analyze audience and present oral reports. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1301.

ENGL 2314 Technical & Business Writing I
3 Hours (3-0)
First semester of a study designed to enable students to organize and prepare materials for college-level scientific, technical, or business writing. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1301.

ENGL 2315 Technical & Business Writing II
3 Hours (3-0)
Second semester of a study designed to enable students to organize and prepare materials for college-level scientific, technical, or business writing. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 2314.

ENGL 2321 Masterworks of British Literature
3 Hours (3-0)
The study of longer significant works of British literature, including study of movements, schools, or periods. Prerequisite: ENGL 1302. Course assignments will include a minimum of 6000 words of writing.

ENGL 2322 British Literature Anglo-Saxon Period through Neo-Classical
3 Hours (3-0)
A course designed to enable students to develop a historical perspective on the development of ideas and literary techniques by studying major authors, works, and trends in English literature from the Anglo-Saxon Period through the Neo-classical Age. Students will develop their critical thinking, research, and writing skills. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302.
HMSY 1343 Weapons of Mass Destruction
3 Hours (3-0)
This course covers hazard and risk assessment, crime scene preservation, chemical agents, biological agents, radiological agents, explosive devices, detection-sampling and plume models, and personal protection methods. The critical role of first responders in weapons of mass destruction, mitigation, and survival will also be presented. Discussion will include historical events related to the use of weapons of mass destruction. Students will identify weapons of mass destruction and means of dissemination; and compare the different biological, chemical, and radiological materials used in weapons of mass destruction.

HPR 1106 Essentials of Medical Terminology
1 Hour (1-0-0)
This course is a study of common medical terminology, word origin, structure, and application.

HPR 2200 Pharmacology for Health Professions
2 Hours (2-0-0)
This course is a study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages. Co-requisite: BIOL 2401 or VNSG 1420.

HPR 2301 Pathophysiology
3 Hours (3-0-0)
This course is a study of the pathology and general health management of diseases and injuries across the life span. Topics will include etiology, symptoms, pharmacology and the physical and psychological reactions to diseases and injuries. Prerequisite: BIOL 2401 or SCIT 1407.

HUMA 1301 Humanities I
3 Hours (3-0)
“Humanities I” invites students to expand their appreciation of the cultural side of human experience on the premise that a complete education should stimulate the intellect as well as provide skills and job training. This course will offer selected, interrelated topics in philosophy, literature, religion, and the arts and sciences from ancient times to about the year 1500. Coverage will be interdisciplinary and multi-cultural, and will include readings, various media, and performance.

HUMA 1302 Humanities II
3 Hours (3-0)
“Humanities II” complements Humanities I by inviting students to expand their appreciation of the cultural side of human experience still further on the premise that a complete education must stimulate the intellect as well as provide skills and job training. This course will offer selected and varying topics in philosophy, literature, religion, and the arts and sciences from about 1500 to the present. Coverage will be interdisciplinary and multi-cultural, and will include readings, various media, and performance. THERE IS NO PREREQUISITE FOR THIS COURSE.

IMED 1316 Web Design I
3 hours (3-1)
Instruction in web design and related graphic design issues including mark-up languages, web sites, and browsers. Students will identify how the Internet functions with specific attention to the World Wide Web and file transfer; apply design techniques in the creation and optimization of graphics and other embedded elements; demonstrate the use of World Wide Web Consortium (W3C) formatting and layout standards; and design, create, test, and maintain a web site.

ITCC 1401 Cisco Exploration 1-Network Fundamentals
4 Hours (3-3)
A course introducing the architecture, structure, functions, components, and models of the internet. Describes the use of OSI and TCP layered models to examine the nature and roles of protocols and services at the applications, network, data link, and physical layers. Covers the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations. Build simple LAN topologies by applying basic principles of cabling; perform basic configurations of network devices, including routers and switches; and implementing IP addressing schemes. Students will identify and describe internet architecture, structure, functions, components, and models; describe the use of OSI and TCP layered models; identify and describe the nature and roles of protocols and services at the application, network, data link, and physical layers; describe principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations; and build simple LAN topologies by applying basic principles of cabling, device configuration, and IP subnetting.

ITCC 1404 Cisco Exploration 2-Routing Protocols and Concepts
4 Hours (3-3)
This course describes the architecture, components, and operation of routers, and explains the principles of routing and routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols RIPv1, RIPv2, EIGRP, and OSPF. Recognize and correct common routing issues and problems. Model and analyze routing processes. Students will describe the purpose, nature, and operations of a router; describe the purpose and nature of routing tables; describe the purpose and procedure of configuring static routes; design and implement a classless IP addressing scheme for a given network; describe the basis features and concepts of link-state routing protocols; and configure and verify basic RIPv1, RIPv2, single area OSPF, and EIGRP operations in a small routed network. Prerequisite: ITCC 1401.

ITCC 2408 Cisco Exploration 3-LAN Switching and Wireless
4 Hours (3-3)
This course helps students develop an in-depth understanding of how switches operate and are implemented in the LAN environment for small and large networks. Detailed explanations of LAN switch operations, VLAN implementation, Rapid Spanning Tree Protocol (RSTP), VLAN Trunking Protocol (VTP), Inter-VLAN routing, and wireless network operations. Analyze, configure, verify, and troubleshoot VLANs, RSTP, VTP, and wireless networks. Campus network design and Layer 3 switching concepts are introduced. Students will identify and correct common network problems at layers 1, 2, 3, and 7 using a layered model approach; select the appropriate media, cables, ports, and connectors to connect switches to other devices and hosts; perform and verify initial switch configuration tasks including remote access management; configure, verify, and troubleshoot VLANs, VLAN Trunking, Inter-VLAN routing, VTP, and RSTP; verify network status and switch operation using basic utilities (ping, traceroute, telnet, SSH, arp, ipconfig); identify and describe the purpose of the components in a small wireless network (SSID, BSS, ESS); and identify the basic parameters to configure on a wireless network to ensure that devices connect to the correct point. Prerequisite: ITCC 1404.
POFT 1227 Introduction to Keyboarding  
2 Hours (2-0)  
Skill development in keyboarding techniques. Emphasis on the development of acceptable speed and accuracy. Students will demonstrate basic keyboarding techniques, with acceptable accuracy and speed of at least 30 words per minute.

POFT 1301 Business English  
3 Hours (3-0)  
Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business. The student will apply the basic rules of grammar, spelling, capitalization, number usage, and punctuation; utilize terminology applicable to technical and business writing; develop proofreading and editing skills, and write effective sentences and paragraphs for business applications. Does not count toward major in “Psychology.”

POFT 1309 Administrative Office Procedure I  
3 Hours (3-0)  
Study of current office procedures, duties, and responsibilities applicable to an office environment. Students will develop time management techniques; demonstrate communication skills; and identify the basic skills of an office professional.

POFT 1325 Business Mathematics and Machine Applications  
3 Hours (3-1)  
Business math problem-solving skills using office technology. Students will solve business application problems using office technology.

POFT 2312 Business Correspondence and Communications  
3 Hours (3-0)  
Development of writing and presentation skills to produce effective business communications. Students will compose, produce, and present effective business documents appropriate to meet industry standards; apply critical evaluation techniques to business documents and demonstrate the importance of coherent, ethical communication principles in business and industry. Prerequisite: POFT 1301 or instructor permission.

POFT 2333 Advanced Document Formatting and Skill Building  
3 Hours (2-4)  
A continuation of keyboarding skills in advanced document formatting emphasizing speed, accuracy, and decisionmaking. Students will demonstrate proficient keyboarding techniques; apply mailability standards to business documents using word processing software; and implement decision-making skills. Prerequisites: POFT 1227 and POFT 2401.

POFT 2380 Cooperative Education-Administrative/Secretarial, General Science  
3 Hours (1-0-20)  
Career related activities encountered in the student’s area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through work experience. This course may be repeated if topics and learning outcomes vary. As outlined in the learning plan, the student will master the theory, concepts, and skills involving the tools, materials, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, and legal systems associated with the particular occupation and the business/industry; demonstrate ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable technical language of the occupation and the business or industry. Prerequisite: Two Business Applications courses or instructor permission.

POFT 2401 Document Formatting and Skill Building  
4 Hours (3-3)  
A continuation of keyboarding skills emphasizing acceptable speed, and accuracy levels and formatting documents. Students will demonstrate proficient keyboarding techniques; and apply mailability standards to business documents using word processing software. Prerequisites: POFT 1227 and ITSW 1401 or instructor permission.

POFT 2431 Administrative Systems  
4 Hours (3-3)  
Advanced concepts of project management and office procedures integrating software applications. Students will select materials, procedures, and equipment; and manage business projects using technology, critical thinking, and problem-solving skills. Prerequisites: ITSW 1401, ITSW 1404, ITSW 1407 and ITSW 1410.

PSYC 1200 Student Success Seminar  
2 Hours (2-1)  
Addresses the knowledge necessary for college success; develops the skills necessary to study and learn; and develops competence in finding information and resources. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual bases for this introduction to college-level student academic strategies. Students develop educational plans and use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. (Cross-listed as EDUC 1200)

PSYC 2301 Introduction to Psychology  
3 Hours (3-0)  
“Introduction to Psychology” deals with the scientific study of the behavior of individuals and their mental processes. The focus is on the perceptions, thoughts, emotions, and social interactions of people in their everyday lives. Psychological theories of mental health, mental disorders, and therapy will be addressed.

PSYC 2302 Applied Psychology  
3 Hours (3-0)  
This course is the application of psychological principles and methods to the development of the cognitive and social skills of students in the collegiate setting. Does not count toward major in Psychology.

PSYC 2306 Human Sexuality  
3 Hours (3-0)  
“Human Sexuality” provides a comprehensive introduction to the biological, psychological, behavioral, and cultural aspects of sexuality. Contemporary research addressing such issues as communication, love, relationships, sexual problems, therapies, pregnancy, and childbirth is discussed. Also SOCI 2306.

Students may receive credit for only two of PSYC 2308, PSYC 2311 and PSYC 2314.

PSYC 2308 Child Psychology  
3 Hours (3-0)  
This course covers the first part of the human development process. It focuses on psychological, cognitive, social, and environmental factors that shape human behavior from prenatal development through adolescence. Prerequisite: PSYC 2301 or permission of instructor.
PSYC 2311 Adult Development
3 Hours (3-0)
This course covers the latter part of the human development process. It focuses on psychological, cognitive and environmental factors that shape human behavior from adolescence through the remainder of life. Prerequisite: PSYC 2301 or permission by instructor.

PSYC 2314 Life-Span Growth and Development
3 Hours (3-0)
This course is a survey course dealing with the study of the relationships among physical, emotional, social and mental factors of human growth and development from birth throughout the entire life-span. Emphasis is on scientific research, fundamental issues, and major psychological theories used to explain development. Prerequisite: PSYC 2301 or permission by instructor.

PSYC 2315 Psychology of Adjustment
3 Hours (3-0)
This course is the study of the processes involved in the adjustment of individuals to their personal and social environment. Students will learn about the theories and practices used in the counseling profession with various populations having adjustment problems. Prerequisite PSYC 2301 or permission of instructor.

PSYC 2319 Social Psychology
3 Hours (3-0)
“Social Psychology” is the study of how the thoughts, feelings, and behaviors of individuals are influenced by the actual, imagined, and implied presence of others. Also SOCI 2326.

PSYT 1372 Relationship Skills
3 Hours (3-0)
The student will be introduced to the study of twenty-first century emotional and sexual intimacy factors within relationships, emphasizing relationship distress, dysfunction and divorce.

PSYT 2331 Abnormal Psychology
3 Hours (3-0)
The study of the theories and processes involved in the dually diagnoses client and treatment of mental disorders. Specify abnormal behavior and its modification; discuss the multi-axial system of diagnosis from the universal diagnostic classification codes; and determine the correct diagnosis given a vignette.

PSYT 2345 Principles of Behavior Modification and it’s Management
3 Hours (3-0)
A study of behavior management and cognitive theories and techniques with emphasis on their applications. Summarize behavior management and cognitive theories; and discuss the applications of behavior management and cognitive techniques.

PRTT 1301 Introduction to Petroleum Industry
3 hours (2-2)
An introduction to the various aspects of petroleum industry including equipment, systems, instrumentation, operations, and the various scientific principles. Addresses a variety of petroleum technologies: exploration, drilling, production, transportation, marketing, and chemical processing industries. Students will identify the concepts of exploration, production, refining, marketing, and transportation; and describe the terms and phrases associated with the petroleum industry.

PRTT 1309 Corrosion Basics
3 hours (2-2)
Principles of corrosion such as basic electrochemistry processes. Addresses the deterioration of materials, devices, or pieces of oil field (or other) machinery/equipment. Emphasis on terminology associated with metallic and nonmetallic corrosion. Students will distinguish between the causes of corrosion; state methods by which corrosion can be identified, monitored, and controlled. Communicate potential field problems and recommend the most reliable solutions.

PRTT 1324 Petroleum Instrumentation
3 hours (2-2)
Study of instruments, instrument systems, terminology, process variables, and control coops as used in a petroleum environment. Students will describe the basic instrumentation used in modern process control; identify the basic instruments used with temperature, pressure, levels, flow, and analytical applications; and describe the basic components of a control loop.

PRTT 2371 Petroleum Geology for Non-Geologists
3 hours (2-2)
Study of Earth systems, rocks and minerals, sedimentology and stratigraphy, geologic time and history of Earth, structural geology, folding and faulting, origin, nature, and occurrence of petroleum, formation names, and evolution of the Permian Basin. Also discussed is oil in the Permian Basin - trends, plays, and petroleum systems, surface and subsurface mapping methods, working with logs, sources of data, well-site operations, and formation evaluation. Students will explain geological concepts and processes as related to the exploration and exploitation of hydrocarbons; use a working knowledge of geology and associated terminology to effectively interact with engineers, geologists, landmen, and associated disciplines within the energy industry; utilize and evaluate surface and subsurface maps, well logs, well site and formation reservoir data.

PRTT 2372 Petroleum Data Loading
3 hours (2-2)
Data types and usages, table set ups and definitions for software and server loading of petroleum data, standard formats (ASCII, Excel and direct links) for production, borehole geophysical logs (LAS, LIS), seismic volumes (SEGY, SEGPI), GIS data (SHAPE files) and horizons (DAT) as well as formatting unstructured electronic data (spreadsheets) for proper loading into geologic and geophysical software applications and transferring data between applications. General techniques for quality checking the validity of the data loading will be presented specific to the data type. Also covers exporting formats with data transfer. Public and private data sources will be explored and examples used. Students will install software licenses on both standalone and network systems; describe file system structure and navigation; perform queries; and retrieve and export data. Manage and manipulate data and data files; create and manage a project; import/export cartographic, lease, well information, seismic, log, and spreadsheet data from and to external sources; load and manage general well information, including well logs (both in ASCII and binary format), seismic data and cultural data; transfer data between different software applications; and export and import graphs and reports.

READ 0270 Intermediate Reading I
1 Hour (0-2)
A lab course providing individual instruction in college reading readiness.
**READ 0171 Intermediate Reading II**
1 Hour (0-1)
Lab course required for student who is taking an approved reading-intensive course under the “C or Better” option. Student must make a “C” in this course and a “C” in reading-intensive course to satisfy reading readiness requirements. Special attention given to reading skills that are needed in student’s particular course work.

**READ 0271 Individualized Developmental Reading**
2 Hours (0-2)
An individualized lab course designed for students who are required to take developmental reading when structured courses are not being offered. Course may be taken more than once.

**READ 0370 Developmental Reading I**
3 Hours (3-1)
A course conducted through lecture/discussion and individual instruction and designed to enable student to increase comprehension, reading rate, vocabulary, and study skills. Course provides instruction in coping more effectively with reading requirements in students’ other courses. Developmental Reading Lab I is required with this course.

**READ 0371 Developmental Reading II**
3 Hours (3-1)
A more advanced course conducted through lecture/discussion and individual instruction and designed to enable student to increase comprehension, reading rate, vocabulary, and study skills. Course provides instruction in coping more effectively with reading requirements in students’ other courses. Developmental Reading Lab II is required with this course.

**READ 0372 Applied Reading**
3 Hours (3-0)
A course conducted through lecture/discussion and individual instruction and designed to enable student to increase comprehension through intensive study of critical thinking, vocabulary, and readings in a specified field. Course is designed to help student to increase comprehension, reading rate, and vocabulary.

**RNSG 1108 Dosage Calculations for Nursing**
1 Hour (0-3-0)
This course covers dosage calculations includes reading, interpreting and solving calculation problems encountered in the preparation of medications, and conversion of measurements within the metric, apothecary, avoirdupois and metric systems. Prerequisites: Approval of instructor.

**RNSG 1162 Clinical I**
1 Hour (0-0-6)
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Admission into the program.

**RNSG 1163 Clinical III**
1 Hour (0-0-3)
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Admission into the program.

**RNSG 1200 Introductory Concepts of Clinical Decision Making**
2 Hours (2-1-0)
This course is an examination of selected principles related to the continued development of the professional nurse as a provider of care, coordinator of care, and member of a profession. The course emphasizes clinical decision making for clients in medical-surgical settings experiencing health problems involving pain, perioperative care, infection, eye-ear-throat disorders, and integumentary disorders. Included in the course is a discussion of knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisite: Admission into the program.

**RNSG 1201 Pharmacology**
2 Hours (2-1-0)
This course is an introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of each drug classification. Topics will include the roles and responsibilities of the nurse in safe administration of medications within a legal/ethical framework. Prerequisite: BIOL 2401.

**RNSG 1215 Health Assessment**
2 Hours (1-3-0)
This course covers the development of skills and techniques required for a comprehensive health assessment within a legal/ethical framework. Prerequisite: Admission to the program.

**RNSG 1227 Transition from Vocational to Professional Nursing**
2 Hours (1-3-0)
Topics covered in this course include health promotion, expanded assessment, analysis of data, nursing process, pharmacology, multidisciplinary teamwork, communication, and applicable competencies in knowledge, judgment skills, and professional values within a legal/ethical framework throughout the life span. Prerequisite: Admission to the program.

**RNSG 1412 Nursing Care of the Childbearing and Childrearing Family**
4 Hours (3-4-0)
This course is an examination of selected principles related to the provision of nursing care for childbearing and childrearing families; application of systematic problem-solving processes and critical thinking skills, including a focus on the childbearing family during preconception, prenatal, antepartum, neonatal, and postpartum periods and the childrearing family from birth to adolescence; and competency in knowledge, judgment, skill, and professional values within a legal/ethical framework. Prerequisite: Admission into the program and PSYC 2314.

**RNSG 1462 Clinical II**
4 Hours (0-0-12)
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Admission into the program.
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<tr>
<td>RNSG 2213</td>
<td>Mental Health Nursing</td>
<td>2</td>
<td>This course covers principles and concepts of mental health, psychopathology, and treatment modalities related to the nursing care of clients and their families. Prerequisite: Approval of the program director and PSYC 2301.</td>
</tr>
<tr>
<td>RNSG 2261</td>
<td>Clinical Transition Option</td>
<td>2</td>
<td>This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Admission into the program.</td>
</tr>
<tr>
<td>RNSG 2205</td>
<td>Intermediate Concepts of Clinical Decision Making II</td>
<td>2</td>
<td>This course is an integration of previous knowledge and skills into the continued development of the professional nurse as a provider of care, coordinator of care, member of a profession, The course emphasizes clinical decision making for clients in medical-surgical settings experiencing health problems involving reproductive and sexual disorders and musculoskeletal disorders. Included in this course is a discussion of knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisite: Admission into the program.</td>
</tr>
<tr>
<td>RNSG 2207</td>
<td>Transition to Nursing Practice</td>
<td>2</td>
<td>This course is an introduction to selected concepts related to the role of the professional nurse as a provider of care, coordinator of care, and member of the profession. The course will review trends and issues impacting nursing and health care today and in the future. Topics will include knowledge, judgment, skill, and professional values within a legal/ethical framework. Prerequisite: Approval of program director.</td>
</tr>
<tr>
<td>RNSG 1513</td>
<td>Foundations for Nursing Practice</td>
<td>5</td>
<td>This course is an introduction to the role of the professional nurse as a provider of care, coordinator of care, and member of the profession. Topics include but are not limited to the fundamental concepts of nursing practice, history of professional nursing, a systematic framework for decision-making, mechanisms of disease, the needs and problems that nurses help patients manage, and basic psychomotor skills. Emphasis on knowledge, judgment, skills, oral communications and professional values within a legal/ethical framework will be included. Prerequisite: Admission into the program.</td>
</tr>
<tr>
<td>RNSG 2400</td>
<td>Intermediate Concepts of Clinical Decision Making I</td>
<td>4</td>
<td>This course is an introduction to the role of the professional nurse as a provider of care, coordinator of care, and member of a profession, The course emphasizes clinical decision making for clients in medical-surgical settings experiencing health problems involving cardiovascular disorders; neurologic disorders; renal and urinary disorders; hematologic disorders; and complex oncological concepts. The focus will be knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisite: Admission into the program.</td>
</tr>
<tr>
<td>RNSG 2370</td>
<td>Complex Clinical Decision Making</td>
<td>3</td>
<td>This course is an application of complex concepts and skills for development of the professional nurse’s role in complex client/nursing situations. The emphasis is on clinical decision making for clients in medical-surgical settings experiencing health problems involving complex cardiovascular disorders; neurologic disorders; renal and urinary disorders; hematologic disorders; and complex oncological concepts. The focus will be knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisite: Admission into the program.</td>
</tr>
<tr>
<td>RSPT 1360</td>
<td>Respiratory Home Care/Rehabilitation</td>
<td>1</td>
<td>This course is designed to develop an understanding of respiratory home care/rehabilitation equipment, procedures, and patient care, with emphasis on the use of special technology and equipment in the treatment of patients in home care and alternate settings.</td>
</tr>
<tr>
<td>RSPT 1160</td>
<td>Clinical III</td>
<td>1</td>
<td>This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: RSPT 1360.</td>
</tr>
<tr>
<td>RSPT 1161</td>
<td>Clinical IV</td>
<td>1</td>
<td>This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: RSPT 1160.</td>
</tr>
</tbody>
</table>
All degrees with the exception of the AAS require students to complete the Core Curriculum. The Core Curriculum was established by the Texas legislature and the Texas Higher Education Coordinating Board to facilitate the transfer of courses between state supported institutions of higher education in Texas and to provide students with the basis of a liberal education. In order to obtain most degrees from a state supported institution in Texas, a student must complete the Core Curriculum. Thus, once a student has completed the Core Curriculum at one institution, it has been completed at all state supported institutions. Courses are chosen from the following areas. Consult degree programs for specific requirements. The required number of semester credit hours is noted in parenthesis beside each area.

**010 - Communications (9)**
ENGL 1301 and 1302, one course chosen from SPCH 1311, 1315, 1318, or 1321

**020 - Mathematics (3)**
MATH 1314, MATH 1316, MATH 1324, MATH 1414, MATH 2412, MATH 2413, MATH 2414, MATH 2415

**030 - Natural Sciences (8)**
BIOL 1406, BIOL 1407, BIOL 1408, BIOL 1409, BIOL 1424, BIOL 2401, BIOL 2402, BIOL 2421, CHEM 1405, CHEM 1411, CHEM 1412, GEOL 1401, GEOL 1403, GEOL 1404, GEOL 1405, GEOL 1447, PHYS 1401, PHYS 1402, PHYS 1403, PHYS 1404, PHYS 1415, PHYS 1417, PHYS 2425, PHYS 2426

**040 - Humanities (3)**
ENGL 2321, ENGL 2322, ENGL 2323, ENGL 2326, ENGL 2327, ENGL 2328, ENGL 2331, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2311, FREN 2312, GERM 2311, GERM 2312, HUMA 1301, HUMA 1302, LATI 2311, LATI 2312, PHIL 1301, PHIL 2303, PHIL 2306, SPAN 2311, SPAN 2312

**050 - Visual and Performing Arts (3)**
ARTS 1301, ARTS 1303, ARTS 1304, DRAM 1310, DRAM 2361, DRAM 2362, DRAM 2366, MUSI 1306, MUSI 1308, MUSI 1309, MUSI 1310

**060 - 070 - 080 - Social and Behavioral Sciences (15)**
U.S. History (6): HIST 1301, HIST 1302, HIST 2301
Government/Political Science (6): GOVT 2301, GOVT 2302
Other Social/Behavioral Sciences (3): ANTH 2302, ANTH 2351, COMM 2300, ECON 2301, ECON 2302, GEOG 1303, HIST 2311, HIST 2312, PSYC 2301, SOCI 1301, SOCI 1306

**090 - Fitness and Wellness (1)**
KINE 1100, KINE 1101, KINE 1102, KINE 1103, KINE 1104, KINE 1105, KINE 1106, KINE 1107, KINE 1108, KINE 1109, KINE 1110, KINE 1113, KINE 1117, KINE 1118, KINE 1119, KINE 1120, KINE 1125, KINE 1126.

**Total : 42 semester credit hours**