# Dental Hygiene

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|---|---|
| **Mode of Delivery** | **Residential** |
| **Credential Awarded** | **Associate of Science** |
| **Program Quarter Credits** | **141.5** |
| **Instructional Weeks** | **120.00** |
| **Total Clock Hours** | **Including Out-of-Class Work Hours: 2412** |

**Objective**

An integral member of the professional dental team, the Dental Hygienist assumes a major role in the prevention of dental diseases for patients. Advanced technology and increased public awareness of preventive health modalities have contributed to the growth of the dental industry. Increased demand for dental services has led to the expansion of roles for hygienists to include clinician, educator, administrator and advocate. The responsibilities of the dental hygienist continue to evolve requiring advanced skills in preventive, educational, and therapeutic dental services. The objective of the dental hygiene program is to train and prepare students in all skills necessary to perform dental hygiene services in a variety of entry-level employment settings.

**Description**

The Dental Hygiene program prepares students to achieve competency in the delivery of the most current dental procedures and to prepare the individual to pursue a career as a dental hygienist with skills to fulfill responsibilities as practitioner and patient advocate. Students learn to provide preventative, educational, clinical therapeutic services supporting the total health of their patients, control oral disease symptoms, and promote good oral health.

**Supervised Clinic**

The Dental Hygiene program has a significant component of supervised clinical on campus to allow students opportunities to apply their knowledge and skills on patients. The clinic hours are scheduled throughout the curriculum to fulfill the clinical practice requirements. During the clinical hours, students work under the supervision of an instructor and a licensed dentist.

**Academic Progression**

In addition to meeting the standards set in the Satisfactory Academic Progress policy, students must complete all concentration courses and prerequisite science courses with a minimum grade of “C+” to be considered passing. Any concentration course below a grade of C+ must be retaken. A student can attempt a concentration course no more than two times. Any student who fails to pass a concentration course after two attempts will be dismissed from the program. A student can only fail one clinical/externship course. If the student should fail a second clinical/externship course, they will be dismissed from the program.

**Credentialing Exams**

In order to be eligible for employment as a Registered Dental Hygienist (RDH), graduates of the program must successfully pass all applicable exams and receive a license from the State Board of Dentistry. Licensing requirements vary by state, and one such requirement is to pass several credentialing exams. Students must pass the written National Board Dental Hygiene Examination (NBDHE) and a regional or state board examination that includes a clinical component and in some jurisdictions a written component. Most states require passing a written jurisprudence examination administered by the State Board of Dentistry.

**Career Opportunities**

Graduates of this program are prepared to seek entry-level employment as dental hygienists.

## Plan of Study

| Course Code | Name | Contact Hours | Clock Hours | Credits | Quarter Credits |
|---|---|---|---|---|---|
| AHP206 | ETHICS/JURISPRUDENCE | 0 | 40 | 0 | 4 |
| BIO205 | MICROBIOLOGY | 0 | 60 | 4 | 0 |
| COM205 | EFFECTIVE COMMUNICATION | 0 | 40 | 4 | 0 |
| DAS114 | RADIOLOGY I | 0 | 60 | 0 | 4 |
| DHG100 | NUTRITION | 0 | 60 | 0 | 4 |
| DHG104 | INTRODUCTION TO DENTAL HYGIENE LAB I | 0 | 60 | 0 | 4 |
| DHG105 | INTRODUCTION TO DENTAL HYGIENE LAB II | 0 | 60 | 0 | 4 |
| DHG110 | ANATOMY, HISTOLOGY, EMBRYOLOGY OF FACIAL STRUCTURES I | 0 | 60 | 0 | 4 |
| DHG111 | ANATOMY, HISTOLOGY, EMBRYOLOGY OF FACIAL STRUCTURES II | 0 | 60 | 0 | 4 |
| DHG112 | PROCESS OF CARE I | 0 | 60 | 0 | 4 |
| DHG197 | DENTAL HYGIENE CLINIC | 0 | 120 | 0 | 4 |
| DHG198 | DENTAL HYGIENE CLINIC | 0 | 120 | 0 | 4 |
| DHG199 | DENTAL HYGIENE CLINIC | 0 | 120 | 0 | 4 |
| DHG200 | DENTAL MATERIALS | 0 | 60 | 0 | 4 |
| DHG212 | PROCESS OF CARE II | 0 | 60 | 0 | 4 |
| DHG220 | PERIODONTOLOGY I | 0 | 60 | 0 | 4 |
| DHG230 | Health Promotion | 0 | 60 | 0 | 4 |
| DHG240 | GENERAL ORAL PATHOLOGY | 0 | 60 | 0 | 4 |
| DHG250 | PHARMACOLOGY AND PAIN CONTROL | 0 | 60 | 0 | 4 |
| DHG297 | ADVANCED DENTAL HYGIENE CLINIC I | 0 | 144 | 0 | 4.5 |
| DHG298 | ADVANCED DENTAL HYGIENE CLINIC II | 0 | 144 | 0 | 4.5 |
| DHG299 | ADVANCED DENTAL HYGIENE CLINIC III | 0 | 144 | 0 | 4.5 |
| DHG312 | PROCESS OF CARE III | 0 | 60 | 0 | 4 |
| DHG314 | RADIOLOGY II | 0 | 60 | 0 | 4 |
| DHG320 | PERIODONTOLOGY II | 0 | 60 | 0 | 4 |
| DHG330 | COMMUNITY ORAL HEALTH | 0 | 60 | 0 | 4 |
| ENG101 | ENGLISH COMPOSITION | 0 | 40 | 4 | 0 |
| MAT101 | COLLEGE MATHEMATICS | 0 | 40 | 4 | 0 |
| MED110 | HUMAN ANATOMY AND PHYSIOLOGY I | 0 | 60 | 4 | 0 |
| MED115 | HUMAN ANATOMY AND PHYSIOLOGY II | 0 | 60 | 4 | 0 |
| PDC200 | Career Development | 0 | 60 | 0 | 4 |
| PSY101 | GENERAL PSYCHOLOGY | 0 | 40 | 4 | 0 |
| SCI118 | CHEMISTRY | 0 | 60 | 0 | 4 |
| SCI120 | BIOCHEMISTRY | 0 | 60 | 0 | 4 |
| SOC101 | SOCIOLOGY | 0 | 40 | 4 | 0 |

*BIO205, COM205, ENG101, MAT101, MED110, MED115, PDC200, PSY101, SCI118, SCI120, SOC101: General Education course*

*DHG100: Indicates Dental Hygiene Concentration*

# Course Descriptions

## AHP206 : ETHICS/JURISPRUDENCE

This course prepares the allied health student to manage the moral, legal and administrative challenges encountered in clinical and non-clinical settings. Principles and standards of practice are presented as well as ethical issues and challenges associated with a professional health care career. The ethical values presented provide a basis for an appropriate decision-making model.

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| **Clock Hours** | **40** |
| **Lecture Hours** | **40** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **None** |

## BIO205 : MICROBIOLOGY

This course focuses on the nature of microbial organisms and offers a comprehensive survey of infectious diseases of humans, with major emphasis on the biology of the infectious process. Important infectious pathogenic agents (bacteria, viruses, protozoa) are studied in terms of their physiological functions and the properties which permit them to be pathogens. The epidemiology and pathogenesis of infections, analysis of the dynamic interactions between invading organisms and the defense mechanisms of the invaded hosts, clinical pictures of the disease states, and prevention of infection are explored. The laboratory exercises provide an introduction to basic microbiology and modern diagnostic and clinical microbiology.

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|---|---|
| **Credits** | **4** |
| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Prerequisites** | **Radiologic Technology: None; Dental Hygiene: SCI118 and SCI120** |

## COM205 : EFFECTIVE COMMUNICATION

This course introduces the students to communication with the goal of helping them become more effective in verbal and nonverbal communication and managing interpersonal and group communication. The course focuses on applying practical principles to one's daily life, in both formal and informal settings. Through the analysis of psychological, social, cultural, and linguistic factors that influence person-to-person interactions, students receive feedback and learn strategies for improving their own communication.

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|---|---|
| **Credits** | **4** |
| **Clock Hours** | **40** |

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| **Lecture Hours** | 40 |
| **Prerequisites** | None |

## DAS114 : RADIOLOGY I

This course provides lecture and laboratory-based instruction on the exposure and processing techniques of diagnostic dental films. Students will also learn the basic principles of radiation physics and the concepts of radiation safety in the dental office. Radiographic instruction includes intraoral x-ray, panoramic x-rays, and an overview of digital x-ray systems. Using a radiographic simulator, students will develop a portfolio of radiographs they have taken to demonstrate competence in exposing, processing, and mounting intra and extra oral radiographs on a variety of patient types.

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|---|---|
| **Clock Hours** | 60 |
| **Lab Hours** | 40 |
| **Lecture Hours** | 20 |
| **Quarter Credits** | 4 |
| **Prerequisites** | None |

## DHG100 : NUTRITION

This course is a basic orientation to the principles of nutrition. Topics include digestion, carbohydrates, proteins, lipids, the utilization of energy and metabolism. The role of vitamins, minerals and nutrients are emphasized and their role in maintaining healthy oral tissues. The role of the dental hygienist in nutritional assessment and counseling are highlighted.

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| **Clock Hours** | 60 |
| **Lab Hours** | 40 |
| **Lecture Hours** | 20 |
| **Quarter Credits** | 4 |
| **Prerequisites** | None |

## DHG104 : INTRODUCTION TO DENTAL HYGIENE LAB I

This course presents the didactic and laboratory components of pre- clinical dental hygiene theory. A firm foundation in infection control procedures, dental hygiene process of care, client assessment, deposit and disease indices, oral infection control, and disease prevention is highlighted. In preparation for advancing to patient care, the following topics are presented: CPR and management of medical emergencies, OHSA regulations, Bloodborne Pathogen Standard, Hazard Communication Standard, and CDC Guidelines. Students will gain clinical experiences through student partner clinical experiences. Ethical concepts related to the Professional Dental Hygienist are presented.

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|---|---|
| **Clock Hours** | 60 |
| **Lab Hours** | 40 |

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|---|---|
| **Lecture Hours** | 20 |
| **Quarter Credits** | 4 |
| **Prerequisites** | DHG111 |

## DHG105 : INTRODUCTION TO DENTAL HYGIENE LAB II

This combination lecture-laboratory course is designed to introduce the student to the dental hygiene care environment and to present basic instrumentation skills and techniques. The principles of instrumentation, ergonomic standards, and preparation for the educational and therapeutic patient services are presented in detail. Students will practice on student-partners in the clinic.

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|---|---|
| **Clock Hours** | 60 |
| **Lab Hours** | 40 |
| **Lecture Hours** | 20 |
| **Quarter Credits** | 4 |
| **Prerequisites** | DHG104 |

## DHG110 : ANATOMY, HISTOLOGY, EMBRYOLOGY OF FACIAL STRUCTURES I

Information presented in this course is designed to develop a firm foundation for the dental hygiene student in morphology and function of the head, neck and oral structures. Topics presented include the formation of the face (nervous system, muscles, etc.), development and growth of the jaws and the origin and stages of tooth and root formation.

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|---|---|
| **Clock Hours** | 60 |
| **Lab Hours** | 40 |
| **Lecture Hours** | 20 |
| **Quarter Credits** | 4 |
| **Prerequisites** | MED110 and MED115 |

## DHG111 : ANATOMY, HISTOLOGY, EMBRYOLOGY OF FACIAL STRUCTURES II

This course presents the anatomy, histology and embryology of the human facial structure and presents a comprehensive coverage of the anatomy of the head and neck and surrounding hard and soft tissues.

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|---|---|
| **Clock Hours** | 60 |
| **Lab Hours** | 40 |
| **Lecture Hours** | 20 |
| **Quarter Credits** | 4 |

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| **Prerequisites** | **MED110 and MED115** |

## DHG112 : PROCESS OF CARE I

This course builds on the foundations of DHG104 and DHG105. The focus is the elements of the dental hygiene process of care. As part of an introductory approach to implementing more advanced dental hygiene services, topics include risk assessments, patients with medical, physical and psychological conditions as well as the dental hygiene treatment modifications for those patient communities. In addition, the theoretical foundation for sealant placement, chemotherapies, ultrasonic and sonic instrumentation, and instrument sharpening is presented.

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|---|---|
| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **DHG105** |

## DHG197 : DENTAL HYGIENE CLINIC

This course is designed to enable the beginning dental hygiene students to assess the systemic and oral health of a student partner and allow for the delivery of clinical dental hygiene preventive and therapeutic care appropriate at the novice or DHG 100 level.

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|---|---|
| **Clock Hours** | **120** |
| **Clinical Hours** | **120** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **DHG104 and DHG105** |

## DHG198 : DENTAL HYGIENE CLINIC

This course is designed to enable the beginning dental hygiene students to assess the systemic and oral health of a student partner and allow for the delivery of clinical dental hygiene preventive and therapeutic care appropriate at the novice or DHG 100 level.

| | |
|---|---|
| **Clock Hours** | **120** |
| **Clinical Hours** | **120** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **DHG197** |

## DHG199 : DENTAL HYGIENE CLINIC

This course is designed to refine the psychomotor instrumentation skills of dental hygiene students. Students are expected to complete oral assessment and delivery of dental hygiene services in an independent manner. The students will have experiences with special care patient populations, pediatric clients and radiologic interpretations. Treatment plans will be written with more comprehensive components. An emerging portfolio of foundational competencies is expected at the completion of this course

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|---|---|
| **Clock Hours** | **120** |
| **Clinical Hours** | **120** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **DHG198** |

## DHG200 : DENTAL MATERIALS

DHG200 is an integrated lecture laboratory course that introduces students to the dental laboratory environment. DHG200 focuses on the nature, qualities, composition, and manipulation of materials used in dentistry. The primary goal of this course is to enhance the student ‘s ability to make clinical judgments regarding the use and care of dental materials based on how these materials react in the oral environment. Lecture topics include dental material standards, dental material properties, and impression materials. Classifications for restorative dentistry, direct restorative materials, indirect restorative materials, removable dental prostheses, sealants, and implants are also covered in this course. Students will have hands- on laboratory experience in the proper manipulation of dental materials commonly employed in dentistry.

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|---|---|
| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **DHG105** |

## DHG212 : PROCESS OF CARE II

This course is designed to present to the dental hygiene student an overview of more advanced clinical competencies including debridement concepts, instrumentation strategies, and pain control strategies. The techniques of pain control include non-invasive and behavioral strategies, the principles of local anesthesia administration and nitrous oxide sedation as allowed by state law. Didactic and lab sessions are presented for the clinical skills associated with: Chemotherapeutics, dentinal hypersensitivity, and advanced instrumentation.

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|---|---|
| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **DHG112** |

## DHG220 : PERIODONTOLOGY I

The intent of this course is to acquaint the dental hygiene student with the fundamentals of Periodontology. Topics include the basics of the epidemiology, anatomy, physiology, neurology, lymphatic and hematology of the periodontium in health and disease. A detailed discussion of the classification and etiology of periodontal diseases (periodontitis and gingivitis) is presented as well as clinical and radiographic assessments and systemic conditions affecting pathology.

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|---|---|
| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **DHG105, DHG111, DAS114 and DHG112** |

## DHG230 : Health Promotion

This course emphasizes the dental hygienist's role as a clinician-educator who designs, delivers, and evaluates oral health education for individuals and communities. Using health promotion and behavior change theory, students develop culturally responsive communication skills (including motivational interviewing and health literacy strategies) to tailor education across the lifespan and for patients with medically complex conditions and developmental disabilities. Course content includes patient education for oral cancer prevention (including HPV-related risk), dental trauma prevention/first-aid messaging, and host defense concepts for risk counseling, as well as evidence-based selection of oral health products, athletic mouthguards, and emerging technologies. Students apply these competencies through community lesson plan development, tobacco cessation counseling practice, and creation of an adaptive oral health education aid.

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|---|---|
| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **None** |

## DHG240 : GENERAL ORAL PATHOLOGY

This course presents processes of inflammation, wound healing, repair, regeneration, and immunological responses. Topics include oral manifestations of systemic diseases, genetics, and developmental anomalies of the oral cavity. In addition, commonly encountered diseases and disorders of the head and neck will be covered. Emphasis will be placed on recognizing the differences between the pathological and normal tissues.

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|---|---|
| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |

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|---|---|
| **Quarter Credits** | 4 |
| **Prerequisites** | DHG105 |

## DHG250 : PHARMACOLOGY AND PAIN CONTROL

This course is designed to provide the student with a knowledge and understanding of basic pharmacology specific to clinical situations and with emphasis on dental hygiene practice. The pharmacology of pain control is presented in detail.

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| **Clock Hours** | 60 |
| **Lab Hours** | 40 |
| **Lecture Hours** | 20 |
| **Quarter Credits** | 4 |
| **Prerequisites** | DHG212 |

## DHG297 : ADVANCED DENTAL HYGIENE CLINIC I

This course is designed to refine the psychomotor instrumentation skills of dental hygiene students. Students are expected to complete oral assessment and delivery of dental hygiene services in an independent manner. The students will have experience with special care patient populations, pediatric clients and radiologic interpretations. Treatment plans will be written with more comprehensive components. An emerging portfolio of foundational competencies is expected at the completion of this course.

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|---|---|
| **Clock Hours** | 144 |
| **Clinical Hours** | 144 |
| **Quarter Credits** | 4.5 |
| **Prerequisites** | DHG199 |

## DHG298 : ADVANCED DENTAL HYGIENE CLINIC II

This course is a continuation of DHG 297 and is designed to refine the psychomotor instrumentation skills of dental hygiene students. Students are expected to complete oral assessment and delivery of dental hygiene services in an independent manner. The students will have experience with special care patient populations, pediatric clients and radiologic interpretations. Treatment plans will be written with more comprehensive components.

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|---|---|
| **Clock Hours** | 144 |
| **Clinical Hours** | 144 |
| **Quarter Credits** | 4.5 |
| **Prerequisites** | DHG297 |

## DHG299 : ADVANCED DENTAL HYGIENE CLINIC III

This is a companion course with DHG 298 intended for the student who will incorporate all components of the process of care and will recognize and implement evaluation methods in an independent manner. It is expected that the dental hygiene student will begin to incorporate the basics of autonomous decision-making in the process of patient care. A burgeoning portfolio of foundational competencies is expected at the completion of this course.

| | |
|---|---|
| **Clock Hours** | **144** |
| **Clinical Hours** | **144** |
| **Quarter Credits** | **4.5** |
| **Prerequisites** | **DHG298** |

## DHG312 : PROCESS OF CARE III

This capstone course is intended to furnish the upper dental hygiene student with an opportunity to demonstrate competency in the process of care for diverse patient populations. Utilizing case studies, students assess findings, formulate a dental hygiene diagnosis, plan, implement and evaluate intervention strategies for a variety of diverse communities. Selected projects provide opportunities for proficiency in critical thinking skills and evidence- based decision making. Students will take a simulation of the Dental Hygiene National Board Exam.

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|---|---|
| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **DHG212** |

## DHG314 : RADIOLOGY II

This course is a continuation of DAS114 and builds on the foundations of basic radiology. Topics include additional experiences in digital radiography, intra oral photography, and extra oral radiography. Advanced topics include: interpretation of films, complex exposure techniques and management of patients with clinical or systemic issues. During this course, students are assigned to the radiology clinic and provide selected imaging services.

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| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **DAS114** |

## DHG320 : PERIODONTOLOGY II

The intent of this course is to present the field of Periodontics to the dental hygiene student. Based on the foundation of the introductory course, the student will survey diseases and disorders of the periodontium and the surgical and non- surgical therapies. Students will gain experience with autonomous decision making of evidence-based treatment planning and case management. Strong emphasis is placed on the role of the dental hygienist as a periodontal therapist in the recognition, treatment, and prevention of periodontal diseases.

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|---|---|
| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **DHG220** |

## DHG330 : COMMUNITY ORAL HEALTH

This course introduces the history and principles of community dental health and provides knowledge of skills and behaviors necessary to promote dental health and prevent dental disease through organized community-based programs. Topics include the prevention of oral disease, health promotion and communication theories, dental epidemiology and oral indices, and principles of community program assessment, planning, implementation, and evaluation. Issues surrounding access to care and the development of community dental programs are presented. In addition, students will gain insight into research design, statistical methods, and evaluation.

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|---|---|
| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Quarter Credits** | **4** |

## ENG101 : ENGLISH COMPOSITION

Writing skills are essential to professional success. In this course students learn the major aspects of writing, beginning with components of the essay, and ending with full essays of different modes of composition. Students go through the various writing stages and strategies and learn to adapt them to their own writing and learning preferences. They also acquire skills for generating ideas, preliminary outlining, topic selection, and drafting while learning to revise, rewrite, and polish structure and style for effective communication.

| | |
|---|---|
| **Credits** | **4** |
| **Clock Hours** | **40** |
| **Lecture Hours** | **40** |
| **Prerequisites** | **None** |

## MAT101 : COLLEGE MATHEMATICS

This is an introductory college mathematics course with the goal of teaching students to think mathematically and solve real-world problems by applying mathematical concepts and principles. Emphasis will be placed on numeration, whole numbers, fractions, mixed numbers, and decimals. Also included are the concepts of variables, ratios, proportions, solving simple equations in one variable, percent, basic geometry, solving applied problems, and operations with integers.

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|---|---|
| **Credits** | **4** |
| **Clock Hours** | **40** |
| **Lecture Hours** | **40** |
| **Prerequisites** | **None** |

## MED110 : HUMAN ANATOMY AND PHYSIOLOGY I

This course introduces students to the normal structure and function of the human body. This course emphasizes the primary and accessory structures associated with cells, human tissues, sense organs, integumentary, musculoskeletal, nervous, and endocrine systems. The understanding of complex principles among and between body systems will be clarified with the use of collaborative learning techniques, hands-on laboratory assignments and group exercises. Virtual laboratory experiences are also included in this course.

| | |
|---|---|
| **Credits** | **4** |
| **Clock Hours** | **60** |
| **Lab Hours** | **20** |
| **Lecture Hours** | **40** |
| **Prerequisites** | **None** |

## MED115 : HUMAN ANATOMY AND PHYSIOLOGY II

Upon completion of this course, students will understand the general anatomical principles of human body systems. Study will focus upon cardiovascular systems, digestive system, urinary system, respiratory system, endocrine system and reproductive system. Students will also understand the complex interaction between organ systems through the integrating principle of homeostasis and how loss of homeostasis leads to malfunction and disease of the body.

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|---|---|
| **Credits** | **4** |
| **Clock Hours** | **60** |
| **Lab Hours** | **20** |
| **Lecture Hours** | **40** |
| **Prerequisites** | **MED110** |

## PDC200 : Career Development

This course is designed to provide the students with career planning and job search techniques and skills. Topics include career exploration, sources for job information, networking, employment applications, cover letters, resumes, and interviewing. Students will develop skills that, along with their education, can lead to achieving personal goals and career success.

| | |
|---|---|
| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Quarter Credits** | **4** |

## PSY101 : GENERAL PSYCHOLOGY

This course provides a general overview of human psychology with special emphasis given to emotion. It begins by laying a foundation of psychology intertwined with critical thinking. Areas of study include the brain and human development, learning and memory, motivation and emotion, personality, psychological disorders and associated common therapies. This course discusses basic psychological concepts focusing on improving the quality of life thereby strengthening the ability to perceive, control and evaluate emotions of self and others.

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|---|---|
| **Credits** | **4** |
| **Clock Hours** | **40** |
| **Lecture Hours** | **40** |
| **Prerequisites** | **None** |

## SCI118 : CHEMISTRY

This course introduces chemistry concepts including measurements, matter and energy, atoms and elements, nuclear chemistry, ionic and molecular compounds, chemical quantities and reactions, gases, solutions, and acids & bases, and equilibrium.

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| **Clock Hours** | **60** |
| **Lab Hours** | **40** |
| **Lecture Hours** | **20** |
| **Quarter Credits** | **4** |
| **Prerequisites** | **None** |

## SCI120 : BIOCHEMISTRY

This course provides instruction in the introduction to atomic structure, chemical bonding, states of matter, organic and inorganic chemical reactions, and acids and bases. Virtual laboratory experiences are included in the course.

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| **Clock Hours** | **60** |

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| **Lab Hours** | 40 |
| **Lecture Hours** | 20 |
| **Quarter Credits** | 4 |
| **Prerequisites** | SCI118 |

## SOC101 : SOCIOLOGY

Sociology is the systematic study of the relationship between human beings and society. In this course students examine basic sociological principles, concepts, and theories in the context of human culture, societies, the socialization process, and various types of stratification. Students also explore and compare the various historic, cultural, and social frameworks of the world and learn to appreciate unique cultural identities. In addition, this course helps students learn to analyze and interpret historic as well as contemporary social issues in the U.S. and around the world.

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|---|---|
| **Credits** | 4 |
| **Clock Hours** | 40 |
| **Lecture Hours** | 40 |
| **Prerequisites** | None |