

## CNCC Course Descriptions for Course Required for the Dental Hygiene Program

**Required Prerequisite Courses:** These courses must be completed by the end of the spring semester that you are applying to the program. All courses must be completed with a grade of "C" or better. BIO 201, BIO 202, BIO 204, CHE 101 or 102 or CHE 109 or CHE 111, and ENG 121.

### **BIO 201 HUMAN ANATOMY & PHYSIOLOGY I/4(3-2-0)**

Prerequisite: BIO 111 or instructor permission. Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, nervous, and endocrine systems. Includes a mandatory hands-on laboratory experience covering experimentation, microscopy, observations, and dissection. This is the first semester of a two-semester sequence. *This course is one of the Statewide Guaranteed Transfer courses (GT-SC1).*

### **BIO 202 HUMAN ANATOMY & PHYSIOLOGY II/4(3-2-0)**

Prerequisite: BIO 201 or equivalent, or instructor permission. Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands on laboratory experience involving experimentation, microscopy, observations, and dissection. This is the second semester of a two-semester sequence. *This course is one of the Statewide Guaranteed Transfer courses (GT-SC1).*

### **BIO 204 MICROBIOLOGY/4(3-2-0)**

Prerequisite: BIO 111 or equivalent, or instructor permission. Designed for health science majors. Examines microorganisms with an emphasis on their structure, development, physiology, classification, and identification. The laboratory experience includes culturing, identifying, and controlling microorganisms with an emphasis on their role in infectious disease. *This course is one of the Statewide Guaranteed Transfer courses (GT-SC1).*

### **CHE 101 INTRODUCTION TO CHEMISTRY I/5(3-4-0) (45 lecture hours; 60 lab hours)**

Co-requisite: MAT 090. Includes the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base, gas laws, and condensed states. Laboratory experiments demonstrate the above concepts qualitatively and quantitatively. Designed for non-science majors, students in occupational and health programs, or students with no chemistry background. *This course is one of the Statewide Guaranteed Transfer courses (GT-SC1).*

and

### **CHE 102 INTRODUCTION TO CHEMISTRY II 5(3-4-0)**

Prerequisite: CHE 101 or instructor permission. Focuses on introductory organic and biochemistry (sequel to Introduction to Chemistry I). This course includes the study of hybridization of atomic orbital's for carbon, nomenclature of both organic and biochemical compounds, physical and chemical properties of various functional groups of organic chemistry, and physical and chemical properties of biochemical compounds along with their biochemical pathways. Laboratory experiments are included. *This course is one of the Statewide Guaranteed Transfer courses (GT-SC1).*

or

### **CHE 109 GENERAL, ORGANIC AND BIOCHEMISTRY/4(3-2-0)**

Focuses on fundamentals of inorganic, organic and biochemistry primarily for students in health science, non-science majors and/or students in the occupational and health related career areas. Includes the study of measurement, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base chemistry, gas laws, condensed states of matter and nuclear chemistry, nomenclature of organic compounds, properties of different functional groups, nomenclature of various biological compounds, their properties and biological pathways.

**ENG 121 ENGLISH COMPOSITION I/3(3-0-0)**

Prerequisite: Writing Assessment Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a minimum of five compositions that stress analytical, evaluative, and persuasive/argumentative writing. *This course is one of the Statewide Guaranteed Transfer courses (GT-CO1).*

**General Education Courses:** Are NOT a requirement for application, but are used in the evaluation process. They can be completed prior to admission in the program and additional points are awarded for their completion. These courses are required for completion of the Associate of Applied Science Degree in Dental Hygiene. COM 115 (SPE 115), PSY 101, SOC 101, HWE 100.

**COM 115 PUBLIC SPEAKING/3(3-0-0)**

Combines the basic theory of speech communication with public speech performance skills. Emphasizes is on speech delivery, preparation, organization, support, and audience analysis. *Guaranteed Transfer courses (GT-CO1).*

**HWE 100 HUMAN NUTRITION/3(3-0-0)**

Introduces basic principles of nutrition with emphasis on personal nutrition. Satisfies nutrition requirement of students entering health care professions.

**PSY 101 GENERAL PSYCHOLOGY I/3(3-0-0)**

Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning and memory. *Guaranteed Transfer courses (GT-SS3)*

**SOC 101 INTRODUCTION TO SOCIOLOGY I/3(3-0-0)**

Examines the basic concepts, theories, and principles of sociology as well as human culture, social groups, and the social issues of age, gender, class, and race. *Guaranteed Transfer courses (GT-SS3)*

**Additional Courses :** The following course is offered for students who have not worked in a Dental Office, or are not Certified Dental Assistants as an opportunity for students to obtain work experience. The course is *\*not\** required as part of the Dental Hygiene Program application but points are awarded for completion.

**HPR 180 PRE-DENTAL HYGIENE INTERNSHIP/2(90 contact hours)**

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.