**Course Number and Name:** Dental Hygiene 3340: Biomedical Sciences II

**Course Type:** Lecture  Laboratory  Clinical  Seminar  Selective

**Academic Year and Semester Offered:** Spring

**Course Director(s):** Robert Hinton, Ph.D.

**Other Participating Faculty (list degrees):**

Lecture - Douglas Benson, Ph.D., Phillip Kramer, Ph.D., Lisa Mallonee, B.S. D.H., M.P.H., R.D., L.D., Jayne Reuben, Ph.D., Brendan Wong, Ph.D.

Lab - Robert Hinton, Emet Schneiderman

**Course Description:** This course is designed to provide the dental hygiene student with a basic introduction to biochemistry, histology, anatomy, neuroscience, physiology, and immunology. Emphasis is placed on the structures of the head and neck region that surround the oral cavity.

**Course Objectives:** This course will provide basic science knowledge foundational to the practice of dental hygiene.

**Related Competencies (number and text):**

| I. Professionalism | 2.1 solve problems and make decisions based on accepted scientific principles. |
| II. Health Promotion and Disease Prevention | 4.1 Promote preventive health behaviors by personally maintaining optimal oral and general health. |
| | 4.2 Identify the health needs of individuals and assist them in the development of appropriate and individualized self-care regimens. |
| III. Patient Care | 6.1 Obtain, review and update a complete medical, family, psychological, and dental history including an assessment of vital signs. |
| | 6.3 Determine medical conditions that require special precautions or consideration prior to or during dental hygiene treatment. |
| | 6.4 Identify the patient at risk for a medical emergency, and be prepared to handle the emergency should it occur during an appointment. |
| | 6.5 Perform an extraoral and intraoral examination and accurately record the results. |
| | 6.9 Radiographically distinguish normal from abnormal anatomical findings. |
6.11 Identify Patients at risk for nutritional deficiencies using assessment data.

**Evaluation Criteria/Methods:** Eight major exams worth a total of 510 points and ten quizzes worth a total of 100 points are scheduled during this semester. The lowest quiz score will be dropped, making 600 total points available. On these exams, students must be able to demonstrate their knowledge of material presented in: (1) the assigned textbook sections (where pertinent), (2) the lectures and (3) the laboratory. These written exams may consist of a combination of multiple choice, true/false, matching, diagram labeling and/or completion and short discussion type questions. The class performance will be curved up to 83% on major exams. If a student misses a major exam with an excused absence, a makeup exam will be made available. However, there is no basis for a curve on make-up exams. Final grades will be based on the percentage of total points accumulated. Grades will be awarded according to the Baylor College of Dentistry grading scale.

**Attendance Policy:** Although attendance at lectures is not required, it is highly encouraged since the lecture represents the instructor’s attempt to structure and organize the content for you to learn. Likewise, you are strongly encouraged to attend and actively participate in lab sessions, which offer the opportunity to use models, cadaver demonstrations, and worksheets to better understand the material discussed in lecture. In addition, labs are a great opportunity to interact one-on-one with instructors and to ask questions. Attendance/participation at some labs is rewarded with points that can raise your grade!

**Laboratory/Clinic Policies and Procedures:** NA

**Learning Materials:**
- **Text:** *Principles of Anatomy and Physiology*, 12th ed. Tortora & Grabowski, 2009
- Lecture outlines, handouts
- PowerPoint presentations, Camtasia recordings from most lectures posted to Blackboard

**Remediation Policy:** Students with poor performance on exams and/or quizzes are encouraged to meet with the course director to determine the source of their performance problem(s). Joining a study group of fellow students is encouraged. Tutors from the senior dental hygiene class may be made available by consultation with Mrs. Sheryl Hornback. Should an individual fail to achieve a passing grade, the Student Promotions Committee may be encouraged to have that student repeat the course at its next scheduled offering, provided the student is performing well in all other course work.