**Dental Materials**

**DENA &DENH 165 Lab Syllabus**

**1 CREDIT HOUR**

**Spring Semester/2011 Office Location: HSHS Building**

**Instructor: Barbara Slatter Office Hours: W 5:30 – 6:30**

**E-Mail Address**: **Bslatter@csi.edu** **Office Phone:**

1. **Course Description:**

This course provides both the theoretical and laboratory/clinical applications of dental materials in the oral environment. From this knowledge base, students learn to understand the role of dental materials in the delivery of preventative and restorative care. The composition, properties, and manipulation of materials used in dentistry, as well as procedures used during application, will be emphasized.

2. **Pre-requisites:** Admissions into the CSI Dental Hygiene Program and successful completion of the first semester.

3. **Required Textbooks:**

1. Wilkins, Esther, Clinical Practice of the Dental Hygienist, 10th Edition 2008.

2. Hatrick, Eakle, Bird, Dental Materials Clinical Applications for Dental Assistants and Dental Hygienists, 2003 Elsevier

3. CSI Clinic Policies and Procedure Manual 2010-2011

4. **Course Goals and Objectives:**

Identify reasons for a knowledgeable base to the science of dental materials:

* Provide students with the principles of dental materials so they can understand the rationale for their use. Students will be involved in selection and manipulation of dental materials
* Identify characteristics dental materials must possess to endure in the oral environment
* Students will demonstrate procedures involving dental materials and the proper maintenance of restoration and oral prostheses

Provide students the opportunity to apply their knowledge through clinical and laboratory procedures

List phases of material

Contrast bonding characteristics of metals ceramics plastics and composites

Relate Physical and mechanical properties of materials

Name units of measure for properties of Density, Heat capacity, stress, strain, elasticity

List and explain differences of stress relaxation and stress concentration

Provide students the opportunity to test their knowledge and prepare for board examinations

Adhesive material

Polymeric restorative materials

Amalgam

Dental Cements

Impression Materials

Gypsum Materials

Prostheses Materials

Acrylic Resins

Discuss and integrate radiographic appearances of dental materials – radiopaque and radiolucent

Provide students resources they will need in order to obtain updates on dental materials and dental manufacturers:

Bleach Trays and Tooth Whitening

Effects on the teeth

Oral appliances

Instruments of dental materials, sharpening, maintenance and materials

Infection Control and safety protocol for handling

Impressions

Dentures

Oral prostheses

5. **Outcomes Assessment:**

Faculty will know students have achieved the course objectives when they have completed the assessment exams, Laboratory competencies. They will demonstrate didactic competency through evaluation.

Learning activities will be submitted for course credit.

6. **Policies and Procedures:**

* + - Students will be expected to be in attendance for all lectures
    - All exams must be taken during the scheduled week and within the allotted time. If they are not taken during the scheduled times, there will be a 10% reduction in grade.
    - No deduction in points may occur if:
      1. A prior notification has been given to instructor and the situation valid
      2. A serious situation prevents prior notification to instructor

**ACADEMIC DISHONESTY:**

Academic dishonesty is grounds for immediate dismissal from the program.  Some examples of academic dishonesty consist of (but are not limited to):

Plagiarism on tests, homework, assignments, or other

Misrepresenting student assignments

“Cheating” as defined in the CSI student handbook “the improper use of books, notes, other students’ tests, or other aides during an examination

Facilitating dishonesty – knowingly helping or attempting to help another commit an act of academic dishonesty, including substituting for another in an examination, or allowing others to represent as their own one’s papers, reports, or academic works

7. **Grading Practices: Total points 1000**

Lab Session Professionalism –10 points per week

Total points

Week 1 – Impressions 38 points

Week 2 – Gypsum 34 points

Week 3 – Gypsum Casts 27 points

Week 4 – Sealants 56 points

Week 5 – Preventive Fluorides 34points

Week 6 – Mouth guard &Bleach trays 55 points

Week 7 – Cements & Provisional Restorations &

Week 8 – Enamel bonding 99 points

Week 9 – Composites 16 points

Week 10 –Spring Break

Week 11 –Amalgams 16 points

Week 12 – Abrasion & Polish 27 points

Week 13 – Dental Ceramics 0 points

Week 14 – Prosthetic Dentistry 0 points

Week 15 – Dental Photography 21 points

Week 16 – Final 100 points

A = 900-1000 of the maximum Points Possible

B = 800-899 of the maximum Points Possible

C = 700-799 of the maximum Points Possible

D = unacceptable

70% will be considered unsatisfactory in completing course requirements.

8. **Library Use if Applicable:**

Copies of required text are available in the CSI Library

9. **CSI E-mail**

Since email is the primary source of written communication with students, all registered CSI students get a college email account. Student e-mail addresses have the following format: [<address>@eaglemail.csi.edu](mailto:address@eaglemail.csi.edu) where <address> is a name selected by the student as a part of activating his/her account. Students activate their accounts and check their CSI e-mail online at <http://eaglemail.csi.edu>.   Instructors and various offices send messages to these student accounts. Students must check their **CSI e-mail accounts regularly to avoid** missing important messages and deadlines.  At the beginning of each semester free training sessions are offered to students who need help in using their accounts.

10. **On-line course evaluation statement:**

To help instructors continually improve courses, students are strongly encouraged to go online to [http://evaluation.csi.edu](http://evaluation.csi.edu/) and complete anonymous evaluations which open two weeks before the end of the course and close the last day of class.  When students enter the site, they find evaluations for their enrolled courses. Thank you for this valuable input!

11. **Disabilities:**

* Disabilities:  Any student with a documented disability may be eligible for related accommodations.  To determine eligibility and secure services, students should contact the coordinator of Disability Services at their first opportunity after registration for a class.  Student Disability Services is located on the second floor of the Taylor Building on the Twin Falls Campus
  + 208.732.6250 (voice)
  + 208.734.9929 (TTY)