Course title and number: 3530 Applied Dental Materials
Term (e.g., Fall 200X): Spring 2021
Meeting times and location: Tuesday 2:00-4:30, Wednesday 1:00-4:00 Zoom, 2nd floor clinic and lecture hall 211

Course Description and Prerequisites
Didactic, laboratory, and clinical instruction in the principles of the science of Dental Materials and in the procedures within the scope of dental hygiene practice. Perquisites-None

Learning Outcomes or Course Objectives

Course Goal:
Course 3530 Applied Dental Materials course is designed to provide the Dental Hygiene students with the principles of the science of Dental Materials and related technologies and to acquaint them with the materials used in the dental health field. The goal of the Applied Dental Materials Course is to build a foundation that will help the students pursue their goals to be successful dental hygienists.

Course Objectives:
Didactic, laboratory, and clinical instruction in the principles of the science of Dental Materials and in the procedures within the scope of dental hygiene practice.

Learning Objectives:
Lecture objectives are found at the end of the course syllabus. Objectives for each laboratory session can be found in the laboratory manual.

Related Competencies:

I. Professionalism

2.2 Commit to self-assessment and lifelong learning in order to provide contemporary clinical care.

II. Health Promotion and Disease Prevention

5.1 Identify services and agencies that promote oral health and prevent oral disease and related conditions.

III. Patient Care

6.2 Perform an extraoral and intraoral examination of the patient including assessment of vital signs and radiographic examination, and distinguish normal from abnormal findings.
6.4 Recognize predisposing, etiologic risk factors, and life style choices that may require intervention to prevent disease.
7.3 Establish a planned sequence of educational and clinical services based on the dental hygiene diagnosis using the problem-based approach.
8.3 Select and administer the appropriate preventive agents and/or antimicrobial (chemotherapeutic) agents and provide pre- and post-treatment instructions.

The following procedures are taught to clinical competency:
1) placement of pit and fissure sealants.
2) make a maxillary and mandibular alginate impression.
3) fabrication of a bleaching tray.
4) application of whitening agent.

The following procedures are taught to laboratory competency:
1) placement of a temporary restoration.
2) debond orthodontic resin.
3) air powder polishing.

Instructor Information

Course Directors
Name: Eric Fox RDH, MS
Telephone number: 214-828-8319
Email address: efox@tamu.edu
Office hours: As needed or by Appointment
Office location: 136A

Name: Veronica Chau DDS
Telephone number: 214-828-8352
Email address: vchau@tamu.edu
Office hours: By Appointment
Office location: 732-1

Other Participating Faculty
Lara Coseo DDS
Christine Beninger DDS
Jana Burnett DDS
Stan A Richardson, LIBST

Textbook and/or Resource Material


Additional readings and handouts may be provided by each lecturer. It will be the students’ responsibility to read the material.

Grading Policies

Evaluation criteria are as follows:

Examinations: 60% Four written examinations valued at 15% each for a total of 60%.
Laboratory & Clinical: 10% Attendance and participation in lab is
Performance: mandatory; complete all laboratory experiments and projects as demonstrated by summary and critique sheets for each laboratory.

Quizzes: 15% Quizzes will incorporate material presented in lecture and laboratory. Quizzes will be given only during the first 10 minutes of the class or laboratory session. At the end of the semester, the lowest quiz grade will be dropped.

Proficiency Exam: 15% Proficiency Exams will encompass performing procedures to clinical competency. (Appendix A-C).

Grading Scale

A = 90.0-100
B = 80.0-89.99
C = 75-79.99
D = 70-74.99
F = <70

Grades, including the final course grade, will not be curved or rounded.

The teaching methods that will be utilized in class will include lecture and virtual classroom discussion. The lectures will be recorded and can be found on Course Recordings on Canvas. Laboratory work will include self-assessment by the student and faculty evaluation. The course director has the ability to adapt/modify the syllabus, as needed. The course director will provide written notice to all students in as advance as possible for any changes that may arise.

Examination Protocol:

All exams will be administered electronically via Exam Soft. Students should contact Ms. Carmina Castro (x8316) or Mr. Jeff Lowry (8243) one day before the exam.

In preparation for the exam, the students are responsible for:

1) Rebooting their laptop before exam sessions.
2) Knowing their NetID and UIN.
3) Closing and exiting all applications on their device.
4) Ensuring that the DUO dual-authentication is functional and accessible.
5) Maintaining their device (laptop or iPod) in good working condition, including keeping their device up to date and patched.

Students are expected to arrive on time for the exam session with a working iPad or laptop, and be ready to start the exam at the posted start time. It will be the student’s responsibility to make sure their device is working and have downloaded the exam to their device before the exam session. Students who arrive late or use the examination time to download the test WILL NOT receive additional time to complete the exam. All cell phones, smart watches and fit bits will be turned into Mr. Fox and/or Dr. Chau prior to starting the exam and will be kept at the front of the class until the student has completed the exam.

Students should also take care of all personal business prior to entering the classroom. However, if the student feels they need to leave the room during the exam, they will be required to log off Exam Soft.
and **WILL NOT** be allowed to return to the classroom (regardless if they did or did not finish the exam). **NO EXCUSES WILL BE ALLOWED.**

Students are expected to exit and upload the exam at the end of the posted exam session. **One point** will be deducted for each minute a student remains in the exam beyond the posted exam session end time. **Additional points** will be deducted from the student’s final score for each of the following issues:

1) Being unprepared to authenticate with your Net ID or DUO dual-authentication (1pt).
2) Leaving the iPad’s Wi-Fi on prior to entering the password, resulting in a second download (1pt).
3) Leaving the assessment room without verifying the upload was successful (2pts).

Unexpected technical issues can occur with electronic devices. Consideration will be given for unforeseen problems or IT infrastructure issues. The above guidelines are to ensure that the student has the best possible and least disruptive exam session as possible.

**NO make-ups will be given for the PROFICEINCY EXAMS. Students who are absent during these exams will receive a 0 (zero).**

### Reviewing Quizzes and Examinations:

Questions regarding posted grades and test items on the exams and or quizzes must be brought to the attention of the course director within **TWO WEEKS** after the grades are recorded. Exams and quizzes can only be reviewed in the course director’s office. If a student wishes to review an exam, they must send Mr. Fox an email requesting an appointment to meet with her. Any concerns regarding a specific exam or quiz question must be submitted to the course director by email and include the question/content, rationale and supporting evidence (powerpoint notes, assigned reading) for the reason student chose a particular answer.

### Attendance Policy:

Texas A&M University views class attendance as an individual student responsibility. In the Caruth School of Dental Hygiene, regular and punctual attendance is **mandatory** for scheduled or rescheduled classes, clinics and related activities/events. The course director will check attendance at the start of the class/activity. Students who are not present at that time will be marked absent.

**IMPORTANT:** All absences must be reported to Pam Hines by PHONE at 214-828-8340 and must be received prior to the beginning of the class/activity.

### Virtual Classroom Expectations and Etiquette

Due to the current COVID-19 Pandemic, classes will be held in a virtual setting this semester. Class attendance is mandatory, and failure to attend the virtual sessions will be subject to the above absence policy. Students are required to enter the virtual classrooms with the audio muted. Video must be activated at the beginning of the class session and remain on until the session concludes. Unless the instructor provides other directions, questions should be posted through the virtual chat/discussion board.

During class, students are expected to be alert, engaged, and sitting upright in a well-lit environment that allows their faces to be clearly visible. Students should attempt to minimize extraneous interruptions from other household members, including pets. Questions or concerns about the use of virtual meeting technology and/or accessibility should be presented to Jeff Lowry or Carmina Castro.
Excused Absences

Illnesses or emergencies: It is understood that absences due to severe or contagious illness, injuries or emergencies may occur. An absence due to illness may require a medical confirmation note from a student’s medical provider. For injuries or illnesses that require a student to be absent from class for three or more business days, a note from his or her medical provider is mandatory. If a student has frequent sick days, the program director may require a medical provider’s note for each absence. **Note:** An absence for a non-acute medical service does not constitute an excused absence.

Religious holy day: A student whose absence is excused under or the observance of religious holy day will be allowed to take an examination or complete an assignment from which the student is excused within 3 days after the absence. **If the student fails to schedule and complete the exam or assignment within three days, a grade of zero will be given.**

For additional information on excused absences, see Texas A&M Student Rule 7.1 at [https://student-rules.tamu.edu/rule07](https://student-rules.tamu.edu/rule07).

Unexcused Absences

Tardiness and non-emergent appointments (illnesses not considered **severe** or **contagious**) scheduled during class time will be considered an unexcused absence. Quizzes and exams start at the beginning of class time. Students who arrive late will not receive extra time to take the quiz/exam. Since classroom learning applies directly to patient care, sleeping in class is considered an unexcused absence and is subject to the remediation policy. **Students with unexcused absences or late arrivals will have TWO points deducted from their final course grade. No make-up quiz/test will be given if the absence is considered unexcused on a test day. Examinations will not be administered in advance for a planned/anticipated unexcused absence.**

Students are required to remain in class and/or laboratory sessions the entire time it is scheduled or until everyone has completed their work. **NO EXCEPTIONS WILL BE CONSIDERED.**

Remediation Policy:

A student who earns a grade of “F” must retake the course in the summer session. A grade of “C” must be attained in order to pass the remedial course.

Other Pertinent Course Information

General Information

The designation of excused or unexcused absence will be determined on an individual basis by the Program Director and Student Affairs. For any absences (excused or unexcused), it will be the student’s responsibility to review the lecture recordings for the class(es) missed. Additionally, the student must complete a make-up assignment(s) within **10 calendar days (including weekends) after returning to school**. The make-up assignment will require the student to thoroughly answer the learning objectives for the class session(s) and define any listed terminology. The assignment must demonstrate the student has listened to the recording(s) that is uploaded on eCampus and read the assigned reading. Make-up assignments must be typed, contain the title of the missed class session(s) and be sent via email within the 10-calendar-day deadline. **Failure to complete the make-up assignment(s) within this time frame will result in TWO points being deducted from student’s final grade. IMPORTANT:** Failure to remediate all absences (excused or unexcused) by the end of the semester may result in an “F” for the course. To review the comprehensive Texas A&M University student attendance rule, go [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07).

The course director has the ability to adapt/modify the syllabus, as needed. The course director will provide written notice to all students in as advance as possible for any changes that may arise.
**Laboratory/Pre-clinical/Clinic Policies and Procedures:**

The laboratory experiments and clinical experiences serve two important functions. They are designed to: 1) provide the student with the opportunity to become familiar with the various materials used in dental health care and 2) emphasize the important variables which can affect the manipulation and ultimate performance of the materials used in common dental procedures. The uses and handling of the materials taught in this course have been closely coordinated with material from other courses. This course should be viewed as an opportunity to experiment with the materials the student will be exposed to throughout his/her dental hygiene career. Appropriate laboratory procedures will be taught during each lab session.

Clinic attire is to be worn during all clinical and laboratory sessions. Students should also have their hair tied back and bring safety glasses to lab/clinic. For procedures that produce an aerosol and/or pungent odor, safety masks will be provided by the course directors.

Each student will self-evaluate their performance on the laboratory/clinical evaluation form provided in the lab manual and will be graded by the instructor at the end of lab and/or clinic. Laboratory/Clinical Evaluation Sheets must be turned in to the instructors at the end of class. **If a student has an excused or unexcused absence during lab, they must complete the lab on the make-up days posted on the course schedule.**

**Students will NOT be able to participate in lab if they do not have their lab manual. NO EXCEPTIONS OR EXCUSES WILL BE ACCEPTED. PHOTOCOPIES OF THE LAB WILL NOT BE ACCEPTED.** In addition, students who do not bring goggles and/or typodont pole, WILL NEED TO PAY MR. FOX OR DR. CHAU $5.00 TO RENT A POLE or GOGGLES FOR LAB THAT DAY. **If a student chooses not to pay the rental fee, they will not be able to participate in lab and will have to complete the lab at a designated make-up laboratory session. Failure to make-up the lab, will result in a 0.**

**Dental X-rays:** Students will be placing pit and fissures and whitening agent on a student partner. In order to determine if a tooth does not have interproximal decay, a current bitewing radiographic series is needed. Students can request x-rays from their dentist and have them sent to the college or have bitewings ordered by Dr. Chau. **See Appendix D.**

In general, emails will be returned by Mr. Fox and Dr. Chau during regular business hours. Please be aware that emails sent after 5 pm may not be answered until 9:00 am the next day.

Announcements, weekly quiz information and grades will be posted on Canvas. It will be the student’s responsibility to check Canvas daily to keep up to date with any changes that may occur during the semester. Students should come to class alert, attentive and take notes during each class session. Cell phones/smart phones/iPhones/apple watches that allow communication to the outside world, must be turned off and/or placed out of reach during each class session. Laptop computers and/or iPads are allowed as long as they are being used for taking notes or looking up information related to class. This course will have guest lecturers who are donating their time to the dental hygiene students. Any student who demonstrates behavior that is disruptive during class (i.e. talking, laughing, text messaging, ringing cell phone, or studying materials from other courses), will be asked to leave the room. **If you are asked to leave the room, this will be counted as an unexcused absence.** If a student has a critical family matter that warrants the need for ready access to their phone, this should be discussed with Mr. Fox or Dr. Chau prior to the start of class.

**Americans with Disabilities Act (ADA)**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional
information, visit http://disability.tamu.edu. If you believe you have a disability requiring accommodation, please contact Dr. Paul Dechow, Associate Dean for Academic Affairs, Room 514 or call 214-828-8208 for additional information.

**Academic Integrity**

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the honor Code, to accept responsibility, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on quizzes, examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. For additional information students should visit http://aggiehonor.tamu.edu.