Course description and goals
This is the first course in a series of three courses which introduces fundamental concepts of operative dentistry emphasizing biomaterials science and its clinical application. Minimally invasive dentistry principles, direct and indirect restorative materials and ergonomics will be introduced focusing on development of psychomotor skills, self-assessment and clinical judgment.

Goals
This course is designed to provide the student with fundamental basic knowledge in Operative Dentistry focusing on the etiology, prevention, diagnosis and treatment of dental caries and its sequelae. Hand skills development in the preparation and restoration of Class I and Class II carious lesions will be particularly emphasized using concepts of minimally invasive dentistry.

This course also includes an introduction in dental biomaterials, which is designed to teach basic principles, material properties, direct and indirect pulp capping procedures, and the use of amalgam to restore single and multi-surface carious lesions.

Pre-requisites:
DEN5404C: Dental Anatomy and Stomatognathics is a pre-requisite course to DEN5405C
Successful completion of this course is required to progress to DEN6407C: Preclinical Operative II.

General Information
Course Director: Ana Paula Dias Ribeiro
Office: D9-16B
Email: aribeiro@dental.ufl.edu
Phone: (352) 294-8285
Course Credits: 4
Semester: Spring
Office Hours: Mondays (1-3 pm)

Communication
1-Emails
2- Canvas course
3- Office hours: open on Mondays and by appointment on different days.
Since Operative Dentistry and Biomaterials contribute to a major portion of the general practice of dentistry, it is important to concentrate early in the curriculum in developing excellent clinical skills and efficiency to provide optimal patient care. Such skill and efficiency are essential components for a successful dental practice.

Finally, students will learn and practice essential ergonomics for the dental practitioner designed to prevent the occurrence of musculoskeletal injury during the practice of dentistry. These skills include positioning of the operator, assistant, and patient, as well as lighting techniques, in order to maximize visibility and access to all areas of the oral cavity and to minimize operator fatigue.

Course Materials

- Other resources: Canvas. http://lss.at.ufl.edu

Grade scale

Method: Letter Grade
Scale: 100
Tolerance: 0.5 (Final letter grades within this range will be rounded up.)

A  95 - 100
A-  90 – 94.99
B+  86 – 89.99
B  82 – 85.99
B-  80 – 81.99
C+  74 – 79.99
C  72 – 73.99
E  0 – 71.99
Course Evaluation

To pass this course, the student must have a final grade of 72% or above and must also pass BOTH the didactic and psychomotor components, each with a score of 72% or higher.

Didactic Component (45%):

1- Written Quizzes/Critical thinking exercises (5%):
Quizzes related to the Operative Dentistry portion of this course will be unannounced and will cover the assigned reading for the day and any material related to the topic at hand which was previously covered in lecture or laboratory. There will be a minimum of five and a maximum of eight quizzes scheduled during the lecture/sim lab sessions of this course. The quiz with the lowest score will be dropped from each student's accumulated quiz total when determining course final grades.

II- Written Quizzes/Critical thinking exercises (40%): Written examinations questions will include multiple choice, T/F, matching, short answer essay items.

•Midterm exam (1st) will cover all course material given up to the respective exam date.
•Final exam (2nd) will be cumulative including all course material given up to the date of the second exam.

Psychomotor Component (55%):

Four psychomotor exams are scheduled in this course (see course schedule). These practical exams will require tooth preparations and/or restorations using amalgam. The scores of these exams will be included in determining the final course grade. Students must pass half of the exams to pass the course (at least 2 psychomotor exams).

The grade for each psychomotor exam will be determined by the average of points received, which will be converted into percentages as determined by the Operative Division Psychomotor Grade Scale. Student performance is evaluated by an orderly decision-making process. Procedural items are scored 4, 3, 2, or 1 against defined criteria.
A 4 indicates that the criteria were met at a superior level
A 3 indicates that the criteria were met at an acceptable level
A 2 indicates that modifications are necessary to achieve an acceptable level
A 1 indicates that the outcome was measured to be at an unacceptable level

For each criterion an evaluative modifier (+) can be assigned to a 1, 2, or 3 grade to indicate that the student identified an error prior to faculty evaluation. Proper terminology and specific locations of all errors must be noted by the student in writing. General non-specific statements will not justify a (+) modifier.

A “1” or “1+” score on any of the criteria on a psychomotor exam will result in a failing grade. The percentage assigned is 65% or the actual score, whichever is lower, when a score of 1 is given. The percentage assigned is 70% or the actual score, whichever is lower, when a score of 1+ is given.

Points are calculated as follows:
- 4 = 4 points
- 3+ = 3.25 points
- 3 = 3 points
- 2+ = 2.25 points
- 2 = 2 points
- 1+ = 0.25 point
- 1 = 0 points

Assigning Grades

1. Didactic component - 45% (40% written exams + 5% quizzes)
   - Exam 1: Operative & Biomaterials - 20%
   - Exam 2: Operative & Biomaterials - 20%
   - Quizzes/Assignments: 5%

2. Psychomotor component - 55% (psychomotor exams)
   Exam #1: Psychomotor I - Class I amalgam tooth preparation - 13.75%
   Exam #2: Psychomotor II - Class II amalgam preparation - 13.75%
   Exam #3: Psychomotor III - Class II amalgam restoration - 13.75%
   Exam #3: Psychomotor IV - Class II complex preparation and restoration – 13.75%

Final Grade - 100%
## Q&A

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<tr>
<th>What happens if I miss a quiz?</th>
<th>There will be no make-up quizzes. One quiz can be dropped.</th>
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<tbody>
<tr>
<td>What happens if I miss a Didactic Exam?</td>
<td>Missed written or psychomotor examinations will require a doctor’s note and if excused, the make-up exam will be either an essay or oral examination. The make-up examination must be scheduled within 2 business days of the missed exam or the student’s return to school. The highest attainable grade on a missed exam is an 85%.</td>
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<tr>
<td>What happens if I miss a Psychomotor Exam?</td>
<td>Missed psychomotor examinations will require a doctor’s note and if excused, the make-up exam will be a similar to the scheduled examination but may include different teeth and/or surfaces. The make-up examination must be scheduled within 2 business days of the missed exam or the student’s return to school. The highest attainable grade on a missed exam is an 85%.</td>
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| What are the expectations related to attendance? | Attendance in this course is mandatory. The following policy applies:  
- 5% will be deducted from the final grade for each lecture or lab missed without an excused absence.  
- 5% will be deducted from the final grade for every three unexcused instances of tardiness.  
- 5% will be deducted from the final grade if the daily project sheet is not returned complete by the date established by the course director. |
| **What are the expectations related to dress code?** | Students must adhere to the dress code as spelled out in the Pre-doctoral Student Handbook and Clinic Procedure Manual while enrolled in any course in the Division of Operative Dentistry. It is applicable at ALL times including, lectures, exams, quizzes, and laboratory sessions. Failure to comply with the dress code will result in a reduction in your final course grade as follows:

- **1st Offense** - Student will be asked to leave the class and warned
- **2nd Offense** - Student will be asked to leave the class and a 5% reduction in your final course percentage will be imposed
- **3rd Offense** - Student will be asked to leave the class and an additional 5% (10% total for dress code) reduction in your final course percentage will be imposed
- **4th Offense** - Student will be asked to leave the class and an additional 5% (15% total for dress code) reduction in your final course percentage will be imposed
- **5th Offense** - Student will be issued an “E” grade in the course |

| **What are the expectations related to professional conduct?** | The College of Dentistry expects all dental students to be professional in their dealings with patients, colleagues, faculty and staff. Behavior of a dental student reflects on a student’s qualification and potential to become a competent dentist. In addition, for each lecture and laboratory session, students are expected to: be prepared, complete the self-assessment forms, follow all guidelines and instructions (which include dress code, use of iPods, headphones, etc.), and put forth an excellent effort (stay the entire session, work diligently during the lab session, etc.). Any student professional misconduct observed during lectures, exams, quizzes, and laboratory sessions will result in a Professional Variance (see Pre-doctoral Student Handbook), which results in a **5 percentage deduction from the final course grade for each Professional Variance issued.** |

<p>| <strong>How does the reassessment work?</strong> | <strong>Students who fail a psychomotor exam</strong> are required to participate in a reassessment process at the end of the course. The reassessment will not change the previous grade obtained in the psychomotor exam or affect the final course grade. Since students will be expected to complete all of the restorations taught in this class during patient care, it is essential that the skill be demonstrated at an acceptable level before advancing to the next course. |</p>
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<th>How does the remediation work?</th>
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| Students failing the course *(not achieving 72% on the Didactic and/or Psychomotor components or failing more than 2 Psychomotor exams)* will be awarded an "E" grade, referred to the Student Performance Evaluation Committee (SPEC), and be placed on academic probation. The student must meet with the course director to develop a remediation plan within one week of the notification of the failing final grade. The remediation activities are at the discretion of the course director. Faculty are available to assist students as they prepare for this examination, but the responsibility for learning the material resides with the student. The time, place, content, and passing grade of the remediation program will be individualized for each student and arranged by the course director. The highest grade attainable in a remediated course is a "D". Students failing to satisfactorily complete the remediation program will maintain the "E" grade and be referred to SPEC for consideration for dismissal or retracting. For more information refer to the Administrative Practices Section K: Remediation. *(insert link)*

*Please note that if the course director determines that the student failed the coursework to such an extent that remedial activities would be inadequate to attain an acceptable level of academic achievement in the course material, the course director can elect not to provide remediation.*