I. COURSE NUMBER AND TITLE: DH221 DENTAL MATERIALS LAB
   Rm. S – 111 (Web Assisted Course - BlackBoard)

II. NUMBER OF CLASS PERIODS: 2 hours per week for 15 weeks

III. COURSE DIRECTORS:
    Deborah A. Graeff RDH, MS
    S-101G  270-5249
    graeff@ecc.edu

    Christine M. Lamanna RDH, MS
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    lamannac@ecc.edu

IV. OFFICE HOURS: As posted in designated locker rooms and S101.

V. INSTRUCTIONAL MATERIALS:

   Required Text: Clinical Aspects of Dental Materials, Marcia
                   ISBN: 9781609139650

   Reference Text: Clinical Practice of the Dental Hygienist, Esther

              handouts compiled from various sources: textbooks, periodicals, manufacture-specific
              directions.

   Video Tapes: Use of the Rubber Dam on Adults, Quercus Corporation.
               New Hybrid Composites: Material, Methods & Considerations, Jordan, R. & Suzuki, M.,
               Various YouTube videos – online.
VI. CATALOG DESCRIPTION:
DH 221 N (0,2) 1 Credit (R)
This laboratory course will provide practical application of knowledge gained in DH220. Commonly used dental materials are prepared to gain experience in manipulation techniques and to insure optimum results. Clinical and laboratory materials will be used including impression, restorative, sealant and polishing materials as well as dental model plaster and stone. An introduction to instrument set-up, transfer and assisting are part of the lab. Minimum passing graded is a "C-". Withdrawal from or failure of a required course prevents further progress in the curriculum. General education courses may be taken prior to starting dental hygiene courses but may not be taken later than the semester in which they are required. Prerequisite: All first year courses and Summer session must be passed or permission of instructor. Co-requisite: All fall semester, second year courses in the dental hygiene curriculum.

VII. COURSE COMPETENCIES:
First set of numbers identifies Dental Hygiene Program Competencies. Second set of bolded underlined numbers identifies applicable ECC Learning Outcomes (LO).

At the completion of the course, the student will be able to:

1. Adopt and plan safe work practices when working with dental materials in the lab and clinical setting. (1.1, 5.1 6 )

2. Demonstrate and utilize the principles of four-handed dentistry throughout laboratory sessions. (1.1, 5.2 6)

3. Describe the principle properties and uses of commonly used dental materials. (8.1 4)

4. Choose appropriate procedures for handling and manipulation techniques of clinical and laboratory dental materials. (1.1, 5.2, 5.4 6)

5. Evaluate the selection, manipulation and performance of commonly used dental materials and procedures. (6.1, 8.1 2)
VIII. PROGRAM COMPETENCIES:

After each applicable competency, the number of the course competency(ies) is placed in parentheses.

1. Professional Integrity. The dental hygiene graduate must be competent in applying the American Dental Hygienists’ Association Code of Ethics and practicing with personal and professional integrity in accordance with the state dental practice act.

Specifically, the dental hygiene graduate must:

1.1 Uphold ethical and legal behaviors with all patients, colleagues and other professionals. (1, 2, 4)

5. Implementation. The dental hygiene graduate must be able to provide treatment that includes preventive and therapeutic procedures to promote and maintain oral health.

Specifically, the dental hygiene graduate must:

5.1 Adhere to state and local policies and procedures for maintaining safety in the dental environment. (1)
5.2 Provide an environment conducive to health by applying basic and advanced principles of dental hygiene instrumentation without causing trauma to hard or soft tissue. (2, 4)
5.4 Select and administer the appropriate preventive and/or antimicrobial (chemotherapeutic) agent and provide pre- and post-treatment instructions. (4)

6. Evaluation. The dental hygiene graduate must be able to evaluate the effectiveness of planned clinical and educational services and modify as necessary.

Specifically, the dental hygiene graduate must:

6.1 Evaluate the clinical outcomes of dental hygiene treatment interventions using indices, instruments, examination techniques, and determine the appropriate recare schedule. (5)

8. Information Management and Critical Thinking. The dental hygiene graduate must be able to acquire and synthesize information in a critical, scientific, and effective manner.

Specifically, the dental hygiene graduate must:

8.1 Evaluate scientific literature and use information technology to assist in evidence-based decision-making. (3, 5)

IX. ECC Learning Outcomes (LO)

After each applicable Graduate Learning Outcome, the number of the course competency(ies) is placed in parentheses.

2. Critical Analysis & Reasoning (5)
4. Scientific Reasoning (3)
6. Technological Competence (1, 2, 4)
X. **GRADING DETERMINATION:**

1. **60% Lab projects**
   - a. Dental dam with matrix band 5%
   - b. Temporary restor. w/matrix band 5%
   - c. Removable Appliance Cleaning 5%
   - d. Amalgam polishing product 5%
   - e. Composite polishing process 5%
   - f. Impression-product 25%
   - g. Model-product 20%
   - h. Mouthguard 15%
   - i. Lightening Tray 15%

2. **10% Website Critique**

3. **10% Homework Sheets** – specified homework assignments must be completed on Blackboard for course credit.

4. **20% Final - comprehensive-multiple choice**

**Students must attain at least a "C-" average, 3.2 QPA (80%) in order to pass this course.**

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<thead>
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<th>Final Grading Scale</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C</th>
<th>C+</th>
<th>C+</th>
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<tbody>
<tr>
<td>A</td>
<td>3.82 - 4.00 = 96 - 100</td>
<td>3.74 - 3.81 = 94 - 95</td>
<td>3.66 - 3.73 = 92 - 93</td>
<td>3.54 - 3.65 = 89 - 91</td>
<td>3.46 - 3.53 = 87 - 88</td>
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<tr>
<td>B</td>
<td>3.28 - 3.37 = 82 - 84</td>
<td>3.20 - 3.27 = 80 - 81</td>
<td>3.20 = 80</td>
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XI. **REMEDIATION:** Remediation efforts are not a guarantee of course success.

Lab projects must be passed by an “S” or “S-” as indicated on individual competency skill evaluations. If an “R” is received on a lab project or written critique, the student must remediate the skill. The course director will determine remediation efforts necessary to successfully achieve competency for the failed skill. The lab project/critique will be redone to a passing level and the grade will be averaged into the lab projects/critique percentage of the final grade. Remediation must be completed by a designated date as determined by the course director for each specific project/critique needing remediation. Failure to remediate may result in course dismissal with the issuance of a “F” grade.

XII. **ATTENDANCE REQUIREMENTS:**

Regular attendance is expected at all lab sessions. Students are responsible for contacting their course director to make up material covered during their absence. (Ref. Policy on Attendance as stated in the ECC College Catalog) The student is expected to take the Final Exam on the given date of their scheduled lab session. If the student is unable to attend that lab session for reasons of bereavement, religious observance or medical illness with MD excuse, the student must call the course director to make arrangements by the next school calendar day. If the student fails to notify the course director to make arrangements, the student will receive an "F" for the Final Exam.

**Department policy regarding long-term absences:**

After returning from a long-term illness (5 days or more) or maternity leave, a written medical clearance must be presented to your advisor stating your ability to continue patient treatment and classroom studies. Also, after an extended absence the student is required to confer with his/her course directors and advisor regarding the ability to complete course requirements. Lengthy absences may prevent the student from completing course requirements.
XIII. **PLAGIARISM AND CHEATING**

Students are expected to uphold the Code of Conduct published in the Erie Community College Catalog and Handbook. In the laboratory setting it is essential that each student complete his/her own assignment. If a student is caught using another student's lab project for their own or having someone else do their project for them it will be considered an act of cheating and will be subject to the terms as listed in the College Catalog.

XIV. **STUDENTS WITH DISABILITIES**

Any student who requires accommodations to complete the requirements and expectations of this course because of a disability is invited to make his or her needs known to the course instructor and to Heather Hewson, North Campus Counselor for Students with Disabilities, Counseling Center (S211) at 851-1495.

XV. **PROFESSIONAL BEHAVIOR AND CONDUCT**

The Dental Hygiene Department and College expects professional conduct from all students. Any breach in professional conduct as stated in the core values of the ADHA Code of Ethics will result in an “R” grade (0 points) being averaged into the final Lab grade. The following actions represent examples of unprofessional conduct and will not be tolerated:

1. Loud, indecent, immature or disrespectful conduct (verbal, electronic and/or physical) toward faculty, staff or fellow students.
2. Failure to provide and complete all assignments for Dental Materials Lab.
3. Failure to respect and utilize lab equipment as intended for appropriate use. **Student will be held financially accountable for damaged or lost department equipment.**
5. Student refusal to participate as a patient for another student.
6. Unprepared for Dental Materials Lab. Failure to bring lab coat, safety eyewear, hair restraint, typodont and necessary handouts to lab.
7. Leaving Dental Materials Lab without course director’s permission or dismissal.
8. Once the DM Lab Final Exam has begun, the student is not permitted to leave the exam. The exam will be turned in when the student leaves the lab classroom. The exam grade will reflect the answers the student completed prior to leaving the room. The student cannot retrieve the exam once it is handed in to complete missed portions of the exam.
9. Cheating of any nature in DH221.

For any of the above actions, the student must meet with the faculty/staff member involved and an additional faculty member/advisor to discuss the problem. This meeting must take place within three school days.

If the student is involved in a second incident, they will be dismissed from Dental Materials Lab with a grade of “F”, and removed from the Dental Hygiene program.

Due to any unforeseen circumstances, any changes that could occur will be held at the discretion of the course director.