

COURSE CODE & TITLE: RESD 1211- Complete Dentures II

DEPARTMENT: RESTORATIVE DENTISTRY

COURSE COORDINATOR: **Professor Avis Smith (Course Coordinator)**
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Office Hours: Saturday: 11:30AM-12:30PM

Office Hours. Students are encouraged to come by, either individually or in groups, to discuss assignments, clarify class topics or problems, share ideas and concerns, review tests, or address any other matters that might be helpful. Office hours held by faculty are specifically offered for student use and are an important part of student's education.

RESD 1211 Syllabus revised in 2024 by Prof. Oscar D. Galvis

COURSE DESCRIPTION: Full denture construction including postdams, insertion of reliefs, waxing and contouring for processing, flasking, wax elimination, processing, recovery, selective grinding, finishing and polishing of full dentures, relines and repairs.

CLASS CREDITS: 3 credits

CLASS HOURS: 2 laboratory sessions - 6 lab hours per week;

NUMBER OF WEEKS: 15 Weeks

CURRICULUM LEVEL: Second semester

PREREQUISITES: RESD 1111

REQUIREMENTS: Standard college and department regulations.
Proper uniform and conformity to safety regulations.

QUIZZES AND EXAMINATIONS: Students are responsible for knowing all material covered in reading assignments, handouts, lecture and laboratory. Students are responsible for knowing information from reading assignments regardless of whether it has been covered during class sessions or not. There will be three examinations that will account for 100% of the lecture score (quiz, midterm and final).

- TEXTBOOKS:** Dental Laboratory Technology – Basic Sciences, Removable Prosthodontics, and Orthodontics; Air Force Pamphlet, 47-103, Vol. I; 15 November 2005.
- REFERENCES:** Dental Laboratory Procedures: Complete Dentures, Morrow, Rudd, Eissmann, C.V. Mosby Co., St. Louis, Mo., 1980 Dental Laboratory Technology Theory and Practice, Richard Blakeslee, C.V. Mosby Co., St. Louis, Mo.
- AUDIO/VIDEOS:** Practical Complete Dentures Reline – H.S.R.C
 Finishing and Polishing Dental Restorations –Library
 Complete Dentures Part II & III – Library
 Complete Dentures Part IV – Refitting and Relining –Library
 Semi-adjustable Articulators in Dentistry –Library
 Denture Base Esthetics –Library
 Final Impressions - Complete Dentures -H.S.R.C.
 Preliminary Impressions – Complete Dentures – Library
 Denture Base Esthetics - H.S.R.C. .
 Lab Procedures - Complete Dentures 1 -H.S.R.C. .
 Lab Procedures - Complete Dentures 2 -H.S.R.C. .
 Recording Centric Relation - H.S.R.C. .
 Recording Centric Relation – Graphic Method - part 2 - H.S.R.C.
 Complete Dentures, University of Iowa
 College of Dentistry, n.d. 4 Videocassettes (Videocassette 1135).
 The Face-Bow Transfers and Mounting of Cases:Whip – Mix Model 8645.
 Quick Mount Face-Bow and Model 8500 Articulator. Whip Mix, 11987 (Videocassettes 1153).
 Mechanics of Dentures. Linden Street Prosthetics, n.d. 3 Videocassettes (Videocassette 1156).

POLICIES:

ACADEMIC INTEGRITY

CUNY Policy on Academic Integrity

Academic dishonesty is prohibited in The City University of New York. Penalties for academic dishonesty include academic sanctions, such as failing or otherwise reduced grades, and/or disciplinary sanctions, including suspension, or expulsion.

Source: NYCCT College Catalog: <http://www.citytech.cuny.edu/academics/academic-catalog.aspx>

NYCCT Academic Integrity

Students and all others who work with information, ideas, texts, images, music, inventions, and other intellectual property owe their audience and sources accuracy and honesty in using, crediting, and citing sources. As a community of intellectual and professional workers, the College recognizes its responsibility for providing instruction in information literacy and academic integrity, offering models of good practice, and responding vigilantly and appropriately to infractions of academic integrity.

Source: NYCCT College Catalog: <http://www.citytech.cuny.edu/academics/academic-catalog.aspx>

Restorative Dentistry

1. All Restorative Dentistry students must submit completed assignments or projects (in lab or theory) by the assigned due date as stated in the course outline.
2. Plagiarism in lecture or laboratory assignments, exams or projects will not be accepted. Student will not receive a grade if papers, exams or assignments were done by someone else or completed in ways other than stated in course documentation. The department will adhere and follow the Academic Integrity Policy and Procedures as per NYCCT & CUNY Policies.
3. Students are responsible for knowing all material covered in reading assignments and handouts for both lecture and laboratory. Students are responsible for knowing information from reading assignments regardless of whether it has been covered during class sessions or not.
4. RESD students are responsible for being in class on time and for participation in laboratory demonstrations. Failure to observe laboratory demonstrations may affect student's performance and contribute to the failure of the course.

NYCCT REASONABLE ACCOMODATIONS

Qualified students with disabilities, under applicable federal, state and city laws, seeking reasonable accommodations or academic adjustments must contact the Center for Student Accessibility for information on City Tech's policies and procedures to obtain such services. Students with questions on eligibility or need for temporary disability services should also contact the Center at : The Center for Student Accessibility, 300 Jay Street room L-237, 718 260-5143, <http://www.citytech.cuny.edu/accessibility/>

ATTENDANCE

NYCCT Attendance & Lateness

Attendance and class participation are essential and excessive absences may affect the final grade. Courses with laboratory, clinical or field work may have specific attendance policies.

Source: NYCCT College Catalog: <http://www.citytech.cuny.edu/academics/academic-catalog.aspx>

Restorative Dentistry Professionalism & Participation

The Department of Restorative Dentistry follows NYCCT, CUNY and Dental Laboratory Technology industry standards in order to educate, develop, advance and guide future dental technology professionals, preparing graduates for workplace readiness. In order to successfully complete Restorative Dentistry courses, students must consistently participate in classes and meet deadlines as stated in course syllabus.

- It is strongly advised that students are present for all classes during the semester including 30 laboratories and 15 lectures.
- Classes will begin promptly at the scheduled time.
- Students enrolled in RESD course must meet all course requirements as stated in course syllabus in order to pass it. Failure to submit or complete the assignments, tasks, projects or exams by specified due dates, place and time will result in a zero (0) grade and possible failure of the course.
- Make-up exams, projects, assessments will not be issued. If student requires reasonable accommodations, proper documentation from the Center for Student Accessibility should be submitted to the instructor within reasonable time to fulfill course requirements before semester ends.
- The students are required to observe course instructor's demonstrations and complete all fabrication tasks under course instructor's supervision. Laboratory demonstrations are usually conducted at the beginning of the session and cannot be redone for the convenience of the student who arrives late, walks out of the classroom, or is absent.
- When student is given instructor's permission to leave the class, the student must return to class in a reasonable time.

GRADING

Restorative Dentistry courses include didactic or didactic and laboratory sections which are graded accordingly. In didactic and laboratory sessions, the final grades will be computed based on grading included in course syllabus. Most courses are graded based on 60% of the laboratory and 40% of the lecture grades. Student must achieve a passing grade of at least 70% in the laboratory and at least 70% in the lecture sections of the course in order to receive the minimum passing grade of "C" for the entire course. Failure to meet the minimum of 70% average in either component of the course confirms that the student has not met the minimum requirements for successful completion of the course and a grade of "D" or "F" will be given based on student's performance in the failing section of the course. RESD student is required to repeat any RESD course for which he/she receives a grade below minimum of "C". For courses with laboratory and lecture components, the student needs to repeat both, the lecture and the laboratory sections, even though the score in one of the sections may have been greater than 70%.

College grading scale

A	=	93- 100%
A-	=	90-92.9%
B+	=	87-89.9%
B	=	83-86.9%
B-	=	80-82.9%
C+	=	77-79.9%
C	=	70-76.9%
D	=	60-69.9%
F	=	59.9% and below

SATISFACTORY PROGRESS

Students are expected to maintain 2.0 G.P.A. or higher in all classes. Students whose cumulative G.P.A. fall below the minimum 2.0 G.P.A. will be placed on academic alert or academic probation by the College. Students on academic probation may be subject to attempted credit restrictions which can affect progress in taking all courses needed for a semester. Failure to raise cumulative G.P.A. to the appropriate level could result in dismissal from the College.

Any students receiving a grade of "D" or "F" in a RESD courses will be required to repeat that course. RESD course may only be repeated once requiring the full duration and fulfillment of all requirements of the lecture and

laboratory sections of the course. Failure to satisfactorily complete a repeated RESD course will be considered a failure to maintain satisfactory progress in the major and will result in dismissal from the major.

PROFESSIONALISM & ETHICS

1. Since practice of dentistry carries with it a high degree of responsibility, a mature, professional, and ethical conduct is expected of all students at all times (lecture & laboratory sessions, hybrid & online sessions, externship sites, professional events/seminars, etc.). Unprofessional behavior that shows inattentiveness and disrespect for others will be taken into consideration during the grading process. Points may be deducted at the discretion of any faculty member regardless of what course is in session. This includes incidents in the hallways, by lockers, or anywhere on NYCCT campus. Students will conduct themselves in a professional manner. No horseplay, offensive language, shouting or any other misconduct will be allowed.
2. Netiquette: Online Etiquette-Students will conduct their online posts and replies with respect for others, which include courtesy, dignity, and appropriate language at all times. Inappropriate behavior of any kind in online settings will not be tolerated and will negatively affect student's grade.
3. All faculty members will be addressed by their proper title.
4. Students are required to use proper dental terminology when discussing dental prosthesis.
5. Students are to have all required instruments and supplies when attending laboratory sessions.
6. Students are not permitted to do other students' work although assistance and teamwork are strongly encouraged.
7. All electronic devices must be turned off during all RESD classes unless otherwise specified by the instructor.
8. Each RESD student will be assigned a locker in the beginning of each semester and will vacate the locker by the last day of the semester. If the locker is not returned back in clean condition by the end of the semester, the locker will be broken by CLT. The student will not receive another locker the next semester.
9. Students should make arrangements to attend all department events and professional development seminars in which an invitation is extended. Students are strongly encouraged to attend events, professional development seminars and meetings sponsored by the department to elevate their knowledge, skills and understanding of the field of study.
10. Department offices and stock rooms contain sensitive and personal information, classroom materials, supplies and equipment, and should be used for official use only. Students and unofficial personnel should not be allowed in the department offices unless to fulfill official business.

DRESS, SUPPLIES & TEXTBOOKS

1. Laboratory smocks (lab coats) with Restorative Dentistry Department emblem must be worn at all times in the laboratory. Emblems are to be attached to the left breast pocket. Smocks must be clean and kept completely buttoned or tied when worn. Failure to wear smocks will necessitate students being barred from laboratory and marked absent.
2. Closed-toe shoes are required while working in the laboratory.
3. No hats/caps of any type are to be worn in the laboratories. (*Except for religious reasons*)
4. Students must purchase and have in their possession the required tools, supplies, PPE and textbooks by the 2nd week of scheduled classes. A list of all course materials will be available in the department's main office or in CLT's office. All personal tools should be clearly labeled with student's name.
5. Students should acquire required textbooks for each course and are expected to read assigned pages and review procedures *prior* to attending lecture and laboratory classes. The list of required textbooks will be listed in all course syllabi.
6. RESD students are responsible for their belongings at all times. Restorative Dentistry Department does not take responsibility for left over items.

HEALTH & SAFETY

1. No eating, drinking or smoking is permitted in laboratories or classrooms.
2. No electronic devices (i.e. phones, headphones, computers or tablets) will be permitted in the laboratories or classrooms unless requested for classroom use by the instructor.
3. No outerwear, shopping bags, attaché cases, luggage etc., are permitted in laboratories.
4. Bunsen burners when lit are a potential danger. Bunsen burners must be turned off when you leave your bench. Long hair and hair spray are flammable items. Pay particular attention to any Bunsen burner flame. Do not lean over the open flame.
5. Chucks must be securely placed onto bench engine shaft to avoid chuck flying off when engine is turned on.
6. Boiling water can result in serious burns. Extra caution should be taken when boiling out or using boiling water.
7. Burnout furnaces and porcelain furnaces are potentially dangerous. Tongs should be used when picking up hot casting rings or ceramic work.
8. Students with long hair must wear a hairnet or tie back their long hair to prevent accidental burning from Bunsen burners or other serious accidents. Hair can easily get caught in hand piece or lathe.
9. Safety eye glasses must be worn by all occupants of the laboratory while any procedures are being conducted that produce dust or airborne particles. Safety eye glasses with side shields may be obtained from a hardware store. They are essential to the students' safety.
10. Eye protection measures should be taken when working with curing lights, lasers, and heating or melting metal.
11. Proper mask (N95) should be worn when grinding metals, ceramics, and acrylics or when using materials creating dust.

12. Students not enrolled in a RESD course, from this and other departments, will not be permitted to visit during laboratory sessions.
13. Students will not use any equipment until demonstrated by the instructor.

CLEANLINESS

1. Students must have a plastic place mat to protect bench top during laboratory sessions.
2. Students are required to clean-up working areas and equipment at the conclusion of any procedure. Timely clean-up is important to prepare the area for the next student and ensure equipment remains in working order. Especially important is that stone or investment is not allowed to harden in the sinks, in the mixing bowls or in contact with the equipment.
3. Each student is required to leave work station spotless by removing all debris, papers, wax, plaster, etc. from drawers, work station tops and floors in the immediate vicinity of the seat before leaving.
4. Each student is assigned responsibility for maintaining the cleanliness of an area used in common by all members of the class.
5. Equipment such as duplicating flasks, articulators or any other equipment that belongs to the department and is used by the student during the laboratory session or during the entire semester must be returned clean and in good working condition otherwise the student is financially responsible for repaying broken or missing equipment, and hold may be placed throughout CUNY system for registration to any courses until the payment is made.
6. 5% of final grades will be deducted in each course for student who will not adhere to neatness, cleanliness and safety measures in the classroom.

RESD 1211 GENERAL EDUCATION STUDENT LEARNING OUTCOMES:

Upon successful completion of the course each student should be able to:

- 1) Determine the quality of work performed with respect to patient needs as needed in the overall healthcare administration process.
- 2) Have the manual dexterity suitable for improving the quality of work required of dental auxiliary support services.
- 3) Focus on the details of future extended work integrated into the overall healthcare process.
- 4) To analyze sincere ethical considerations for the treatment of patients with the elimination of discriminatory practices, which short change many of quality treatment.

RESD 1211 ASSESSMENT OF GENERAL EDUCATION STUDENT LEARNING OUTCOMES:

The instructor will evaluate the students' achievement of the learning outcome by:

- 1) Didactic evaluations i.e., Quizzes, Midterm, Final
- 2) Self-Assessment – Students can self-assess their work on the basis of the grading criteria before grading, as long as work is completed by due dates.
- 3) Laboratory Performance Evaluation – Instructors will also evaluate their work on the basis of the grading criteria where students will receive a grade for each laboratory project that will amount to a portion of their final grade.

RESD 1211 COURSE LEARNING OUTCOMES:

Upon successful completion of the course each student should be able to:

- 1) List and describe the laboratory procedures for processing complete dentures in acrylic.
- 2) Insert reliefs, engrave the posterior palatal seal, and contour complete dentures.
- 3) Flask, pack and process maxillary and mandibular full dentures.
- 4) Deflask and remount the full dentures.
- 5) Correct processing errors by selective spot grinding and milling.

- 6) Finish and polish the maxillary and mandibular full dentures.
- 7) Describe the clinical and laboratory procedures for relining a complete denture.
- 8) Reline full dentures.
- 9) Explain the procedure for repairing compound fractures and tooth repairs.
- 10) Describe the purpose and procedure of fabricating a surgical guide.
- 11) Describe the principles and methods of preventing disease transmission and cross contamination during the fabrication of full dentures, relining, and repairs.

RESD 1211 ASSESSMENT & GRADING

LECTURE	40%
LABORATORY	60%
*TOTAL - FINAL GRADE	100%

- * Additional projects may be available
- * Participation will be based on alertness in class, participation in class discussion, and homework.
- * Final grade will be computed on the basis of 60% of laboratory grade and 40% of lecture grade. Each individual's performance will be assigned a conventional letter grade.
- * Unsatisfactory completion of laboratory or lecture of the course will constitute unsatisfactory grade of the course.
- * Any students receiving a grade of "D" or "F" in a RESD courses will be required to repeat that course. RESD course may only be repeated once requiring the full duration and fulfillment of all requirements of the lecture and laboratory sections of the course. Failure to satisfactorily complete a repeated RESD course will be considered a failure to maintain satisfactory progress in the major and will result in dismissal from the major.

NYCCT LETTER GRADE SCALE:

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A-	=	90-92.9%
B+	=	87-89.9%
B	=	83-86.9%
B-	=	80-82.9%
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C	=	70-76.9%
D	=	60-69.9%
F	=	59.9% and below

RESD 1211 LECTURE ASSESSMENT CRITERIA

Lecture is 40% of total course grade

Quiz _____	20 %
Midterm _____	40 %
Final _____	40%

***TOTAL – LECTURE** **100%(40% Towards Final Grade.)**

OPTIONAL: __5__% extra credit

- * Student must achieve a passing grade of at least 70% in the lecture section to pass the class

RESD 1211 LAB ASSESSMENT CRITERIA

Laboratory Projects & Quizzes = 60% of total course grade

Project 1 Wax-up & Final Contouring _____	10 pts
Project 2 Flasking _____	10 pts

Project 3 Boil-out/Preparation for Flasking	6 pts
Project 4 Posterior Palatal Seal	4 pts
Project 5 Packing	7 pts
Project 6 Deflasking	4 pts
Project 7 Selective Grinding	16 pts
Project 8 Finish & Polish	17 pts
Project 9 Reline	11 pts
Project 10 Tooth Repair	6 pts
Project 11 Fracture	5 pts
Project 12 Surgical Stent	4 pts

Total Projects = 100pts = (100% of Total Lab Grade)

***TOTAL – LAB** **100%(60% Towards Final Grade)**
 OPTIONAL: ____5____% extra credit

Example: Laboratory Final Grade = 90
 Lecture Final Grade = 85
 $90(.6) + 85(.4) = 90$ A- Final Grade

* Student must achieve a passing grade of at least 70% in the lab section to pass the class

RESD 1211 LECTURE SCHEDULE

Lecture	DATE	Topic
1	8/29/23	Topic: Review of First Semester
2	9/05/23	Topic: Bulk Waxing/ Flasking
3	9/12/23	Topic: Flasking
4	9/19/23	Topic: Boil Out/ Posterior Palatal
5	9/26/23	Topic: Quiz
6	10/03/23	Topic: Packing
7	10/17/23	Topic: Deflasking
8	10/24/23	Topic: Review (Informed of Mid-semester Grade)
9	10/31/23	Topic: MIDTERM EXAM
10	11/07/23	Topic: Selective Grinding
11	11/14/23	Topic: Finish and Polishing
12	11/21/23	Topic: Tooth and Denture Base Repairs
13	11/28/23	Topic: Reline & Surgical Stent
14	11/05/23	Topic: Review
15	12/19/23	Topic: FINAL EXAM

RESD 1211 LABORATORY SCHEDULE
(Tentative Schedule, subject to change)

	<u>Lab Exercise</u>	<u>Total Points</u>	<u>Due date</u> <small>(Subject to Change)</small>	<u>Sessions</u> <small>(Estimated)</small>
1	Wax-up and Final Contouring	10	TBA	4
2	Flasking	10	TBA	4
3	Boil-out/Model Preparation	6	TBA	2
4	Posterior Palatal Seal	4	TBA	1
5	Packing/Processing	7	TBA	4
6	Deflasking	4	TBA	2
7	Selective Grinding	16	TBA	2
8	Finishing/Polishing	17	TBA	2
9	Single Tooth Repair	6	TBA	2
10	Denture Base Fracture Repair	5	TBA	2
11	Maxillary Reline	11	TBA	2
12	Surgical Stent	4	TBA	3

Total Points = 100 pts

Total Sessions = 30

RESD 1211 LABORATORY OUTCOMES ASSESSMENT EVALUATION SHEET

1) Wax-up & Final Contouring (10 POINTS)

- a. Proper height, coverage, thickness of gingival margin- **2pts**
- b. Borders completely sealed/thickness- **2pts**
- c. Food traps present (deduction)- **2 pts**
- d. Root eminences (proper anatomy)- **2pts**
- e. Final presentation (clean waxup, no wax bubbles interior, teeth free of wax)- **2pts**

2) Flasking (10 POINTS)

- a. Placement of model in flask (after first half flask/ first pour)- **2pts**
 - i. Centered
 - ii. 6mm clearance of incisal edge to lid
- b. Proper first half flasking/ No undercuts, second half fits seamlessly, stone has a smooth finish - **2pts**
- c. Vaseline application between each layer- **2pts**
- d. Incisal edges shown after second half/ second pour- **2pts**
- e. Metal – to – Metal contact between flask parts - **2pts**

3) Boil-out/ Model Preparation (6 POINTS)

- a. Wax completely removed – **2pts**
- b. Models cleaned properly – **2pts**
- c. Flasks fit together seamlessly – **2pts**

4) Posterior Palatal Seal (4 POINTS)

- a. Correct placement and engraving
 - i. 2 mm Wide & 0.5 mm Deep (Palatine Fovea Area): - **1pt**
 - ii. 1 mm Wide & 1mm Deep (Hamular Notch Area) - **1pt**
 - iii. 5mm Wide - **1pt**
 - iv. 1mm Deep (Vibrating Line Area) - **1 pt**
- 5) Packing/Processing (7 POINTS)**
- a. Use of tinfoil substitute- **2pts**
 - b. Correct monomer to polymer ratio- **1pt**
 - c. Correct timing of acrylic application- **1pt**
 - d. Use of polyethylene sheets - **1pt**
 - e. Proper use of press/ compensating- **1pt**
 - f. Upon Deflasking- NO Porosity- **1pt**
- 6) Deflasking (4 POINTS)**
- a. Model intact/ no cracks- **2pts**
 - b. Denture undamaged- **2pts**
- 7) Selective Grinding (16 POINTS)**
- a. Proper remount- **2pts**
 - b. Proper cusp to fossa contacts (Centric)- **2pts**
 - c. Evenly distributed contacts (Centric, Bilateral)- **2pts**
 - d. Pin within 1mm limit- **1pt**
 - e. Left working Group Function- **2pts**
 - f. Right working Group Function- **2pts**
 - g. Left balancing contact- **1pt**
 - h. Right balancing contact- **1pt**
 - i. Protrusive contact- **1pt**
 - j. Protrusive balancing contact- **2pts**
- 8) Finishing/Polishing (17 POINTS)**
- a. Proper borders (Rounded, no sharp edges)- **2pts**
 - b. Freed frenums- **2pts**
 - c. No acrylic on teeth- **1pts**
 - d. Gingival Margins Distinct (Labial/Lingual)- **2pts**
 - e. Necks of teeth covered- **2pts**
 - f. Proper gingival anatomy contours (after pumicing)- **2pts**
 - g. Intaglio surface not rough/ no nodules- **2pts**
 - h. Proper Palatal thickness (Uniform 3mm)- **1pt**
 - i. Lingual frenum Freed properly- **1pt**
 - j. Proper polish/ high shine (no rough areas/ no stone on denture/ no food traps)- **2pts**
- 9) Single Tooth Repair (6 POINTS)**
- a. Proper Positioning- **1pt**
 - b. Preparation - **2pts**
 - c. Matrix- **1pt**
 - d. Porosity free- **1pt**
 - e. Polish/Finish- **1pt**

10) Denture Base Fracture Repair (5 POINTS)

- a. Fabrication of model-1pt**
- b. Preparation of fracture area- 1pt**
- c. Proper alignment- 1pt**
- d. Porosity free- 1pt**
- e. Polish- 1pt**

11) Maxillary Reline (11 POINTS)

- a. Bead, box & pour- 1pt**
- b. Preparation on intaglio and borders- 1pt**
- c. Porosity free/ minimum demarcation line- 1pt**
- d. Proper borders (Extensions, Rounded, No Sharp Edges)- 1pt**
- e. Frenums freed- 1pt**
- f. Posterior Palatal Seal- 4pts**
- g. Palatal thickness- 1pt**
- h. Finish/Polish- 1pt**

12) Surgical Stent (4 POINTS)

- a. Proper reduction of teeth- 1pt**
- b. Intaglio surface smooth- 1pt**
- f. Porosity free/ Clear finish- 1pt**
- g. Polish- 1pt**

