

NEW YORK CITY COLLEGE OF TECHNOLOGY  
THE CITY UNIVERSITY OF NEW YORK

DEPARTMENT OF  
RESTORATIVE DENTISTRY

COURSE CODE & TITLE: RESD 1110 TOOTH MORPHOLOGY HYBRID (PARTIALLY ONLINE)

DEPARTMENT: RESTORATIVE DENTISTRY

COURSE COORDINATOR RENATA BUDNY, Professor

LECTURE & LAB INSTRUCTOR: RENATA BUDNY, Professor

Phone: 718 260-5137, Cell: 631 871-7174 Email: [renata.budny96@citytech.cuny.edu](mailto:renata.budny96@citytech.cuny.edu)  
Office Hours: Tuesdays & Thursdays 7:00am-8:30am, 11:00am-11:30am Virtual  
Office Hours: upon request

LAB INSTRUCTORS:

LAURA ANDREESCU Assistant Professor

Phone: 718 260-5137 Email: [laura.andreescu53@citytech.cuny.edu](mailto:laura.andreescu53@citytech.cuny.edu)  
Office Hours: Thursdays 10:00am-1:00pm Virtual  
Office Hours: upon request

JULES BALLA, Substitute Lecturer

Phone: 718 260-5137 Email: [jules.balla73@citytech.cuny.edu](mailto:jules.balla73@citytech.cuny.edu)  
Office Hours: Thursdays 11:30am-1:30pm Virtual  
Office Hours: upon request

PAUL FEDERICO, Adjunct Lecturer

Phone: 718 260-5137 Email: [paul.federico06@citytech.cuny.edu](mailto:paul.federico06@citytech.cuny.edu)  
Office Hours: Wednesdays 7:00am-8:30am, 11:00am-11:30am Virtual  
Office Hours: upon request

SHANE VELEZ, Adjunct Lecturer

Phone: 718 260-5137 Email: [shane.velez70@citytech.cuny.edu](mailto:shane.velez70@citytech.cuny.edu)  
Office Hours: Saturdays 2:00pm-4:00pm  
Virtual Office Hours: upon request

Office Hours. Students are encouraged to come by, either individually or in groups, to discuss assignments, clarify class topics, share ideas and concerns, review tests, or address any other matters that might be helpful.

RESD 1110 Syllabus were revised in August 2024 by Profs. R. Budny, L. Andreescu, J. Balla, P. Federico, and S. Velez.

**COURSE DESCRIPTION:** A detailed study of tooth form, structure and function; drawings of teeth, wax buildup and development of the anatomical crowns for maxillary and mandibular teeth.  
This course is designed to provide the student with a theoretical and practical study of dentition.

**CLASS CREDITS:** 3 credits

**CLASS HOURS:** 6 laboratory hours per week, minimum of 1 visit in Brightspace per week; 1 lecture hour per week according to RESD 1110 Syllabus; minimum of 2 visits in Brightspace per week;

**NUMBER OF WEEKS:** 15 Weeks

**CURRICULUM LEVEL:** First semester

**PREREQUISITES:** Eligibility for ENG1101 or ENG 1101CO or ENG 1101ML; Eligibility for MAT1190 or MAT1190CO or higher

**REQUIREMENTS:**

Standard department and college regulations. Conformity to Netiquette (online etiquette).

Students who participate in online sessions with their camera turned on or use a profile image are agreeing to have their video or image recorded solely for the purpose of creating a record for students enrolled in the class to refer to, including those enrolled students who are unable to attend live. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If not willing to consent to have voice recorded during class, the student will need to keep mute button activated and communicate exclusively using the "chat" feature, which allows to type questions and comments live.

**QUIZZES AND EXAMINATIONS:**

Students are responsible for knowing all information covered in reading assignments, handouts, lecture, and laboratory. Students are responsible for knowing information from reading assignments regardless of whether it was covered during class sessions or not. In addition to the major exams, there will be quizzes/assessments/projects that will be conducted during each session. They will be based on prior sessions and reading assignments. There will be no make-up for missed course work.

**HYBRID COURSES:**

Information related to City Tech hybrid education, and student workshops can be found directly on Brightspace and will be explained by lecture instructor during the first lecture.

The lecture sessions will be conducted either in-person or virtually through online platform and laboratory sessions will be conducted in-person. Questions should be directed to the instructor teaching the section or the course coordinator.

**In-person sections** – class meetings are in person in college classroom.

**Hybrid sections** - some meetings are in person, some online on designated platform.

**Online meetings** can be synchronous (regularly scheduled meeting times) or asynchronous (students engage in class at their convenience, no scheduled class start and end time)

**Synchronous fully online courses/sessions** – students engage in class online on scheduled days and times.

**Asynchronous fully online courses/sessions** – students engage in online class, at their convenience, assignments are due by specific dates.

## HYBRID PARTICIPATION:

The laboratory sessions will meet in-person in scheduled classroom on assigned date and at the scheduled time. The lecture sessions may be conducted as fully online, either synchronous or asynchronous on designated platform. The dates for online meetings will be posted in course syllabus or may be scheduled during semester in case of emergency (i.e. dangerous weather conditions). Students are expected to contribute regularly (at least once a week) and complete all assigned work before or on the due date.

**ASSIGNMENT/ASSESSMENTS/POSTS SUBMITTED PAST DUE DATES WILL RECEIVE 0 GRADE AND WILL COUNT AS AN ABSENCE FROM CLASS.**  
**THERE ARE NO MAKE UPS FOR MISSED ASSIGNMENTS AND EXAMS.**

## TEXTBOOKS:

Anusavice, K., J., Shen, C., H., Rawls, R. (2013). *Phillips' science of dental materials*. (12<sup>th</sup> ed.). St. Louis, MI: Elsevier/Sounders  
Brand, R., Isselhard, D. *Anatomy of orofacial structures*. (8<sup>th</sup> ed.). St. Louis, MI: C.V. Mosby. (ISBN #9780323480239)  
*Dental laboratory technology: basic sciences, removable prosthodontics, and orthodontics*. (2005). Air Force Pamphlet 47-103, Vol.1.  
*Dental laboratory technology: fixed and special prosthodontics*. (2005). Air Force Pamphlet 47-103, Vol. 2.

## REFERENCES (can be found in the library):

Ash, M., M., Nelson, S., J. (2003). *Wheeler's dental anatomy, physiology and occlusion*. (8<sup>th</sup> ed.). St. Louis, MI: Elsevier/Sounders.  
Neff, P. A., (1999). *TMJ occlusion and function* (8<sup>th</sup> ed.). Georgetown University School of Dentistry.

## WEB REFERENCES:

American Dental Association (ADA) <https://www.ada.org/about>  
Dental Advisor <http://www.dentaladvisor.com/>  
Lab Management Today (LMT) <https://lmtmag.com>  
Inside Dental Technology (IDT), Aegis Dental Network publication <http://www.dentalaegis.com/idt/> (also linked to Inside Dentistry, Compendium, Inside Dental Hygiene (IDH), CDE World, Dental TV, The Dental Genius)  
Journal of Dental Technology, National Association of Dental Laboratories publication <https://www.nadl.org/jdt-magazine> NYCCT  
Library Electronic Journals <http://library.citytech.cuny.edu/>

## **RESTORATIVE DENTISTRY POLICIES**

**Students attending Restorative Dentistry in-person, hybrid or online courses will be required to adhere to the following 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 who's 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 2<sup>nd</sup> 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 eyeglasses must be worn by all occupants of the laboratory while any procedures are being conducted that produce dust or airborne particles. Safety eyeglasses 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 workstation spotless by removing all debris, papers, wax, plaster, etc. from drawers, workstation 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.

## ONLINE CLASS TECHNOLOGY PREREQUISITES

Below are the suggested minimum prerequisites for taking part in an online course:

1. You should have access and be able to use the internet browser.
2. You need access to a computer with internet connection; computers with internet access are available in numerous locations throughout the college (i.e. Library, Computer Lab G600, etc.)
3. You should have access and be comfortable using the college email account provided to each student free of charge. College email will be used as a primary source of course communication.

## HELPFUL INFORMATION ON HOW TO ACCESS & NAVIGATE ONLINE PLATFORM:

1. College provides numerous Brightspace student training sessions throughout the semester.
2. Visit Student Welcome Center in the Library Building on the first floor to seek assistance with Brightspace set up, password and access issues, etc.
3. Visit the student computer lab in the General Building, sixth floor, room G600. The phone number for the lab is (718) 254-8565.
4. Refer to Brightspace help page.

#### INSTRUCTIONAL VIDEOS:

<https://www.citytech.cuny.edu/atol/student-brightspace.aspx>

#### MOBILE DEVICES:

Brightspace Pulse is the mobile app for Brightspace that can be downloaded on the Apple Store or Google Play.

Students can find resources and support for the app on the Brightspace Community website, including how to Manage Your Course Workload With Brightspace Pulse:

<https://community.d2l.com/brightspace/kb/articles/1776-manage-your-course-workload-with-brightspace-pulse> Brightspace's video tutorial for learners on How To Navigate Pulse:

<https://www.youtube.com/watch?v=jW8a1zujbh8>

#### 5. Use the description of the navigation of the Brightspace site:

**ANNOUNCEMENTS** - Announcements will allow communication between instructor and student. The student should have clear instruction posted here about each lecture or lab, project, exam, emergency, etc. Students need to check announcements regularly and complete assignments in timely manner to comply with set deadlines.

**FACULTY INFO & OFFICE HOURS** - information about course coordinator, lecture instructors and lab instructors for all sections of the course (i.e. phone, email, office location and office hours). Online classroom is open 24 hours a day, 7 days a week. If student wants to ask the coordinator/instructor a question, he/she can email or post it in discussion board it at any time. To discuss matter with the entire class, the student should post the question in designated Forum in Lecture/Lab Discussion section.

**COURSE DOCUMENTS** - course syllabus, academic calendars, and course calendar with deadlines to complete the lab or lecture projects.

**WEEKLY LECTURE SESSIONS** - lecture materials for each one of 15 lectures, i.e. power point presentations, articles, handouts, and videos related to specific lecture topics

**WEEKLY LABORATORY SESSIONS** - laboratory documentation like instructions related to laboratory procedures and equipment, videos, lab notes, handouts, grading sheets, etc.

**DISCUSSION BOARD** –questions/comments, replies to questions /comments, assignments, essays, etc.

**Zoom** – online meeting platform that may or may not be utilized

**BOOKS & ARTICLES** –electronic books and handouts available for students use i.e. AFP vol I & II manual.

**WEB LINKS** – links to dental laboratory publications, organizations professionals, companies & manufacturers, webinar sites

**CITY TECH LIBRARY** - Research guide

## RESD 1110 GENERAL EDUCATION STUDENT LEARNING OUTCOMES:

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

1. **Engage** in an in-depth, focused and sustained program of study utilizing textbooks and references
  - **Recognize** esthetical and functional differences in teeth
  - **Converse** accurately using discipline specific vocabulary
2. **Develop** tools needed for communication, inquiry, analysis, and productive work, as well as **gather** information from observation during laboratory sessions. Participate in discussions.
3. Work productively within and across disciplines:
  - Information literacy: **gather and apply** information discerningly from a variety of sources: textbooks, publications, internet sources.
  - Systems: **understand and navigate** systems (Brightspace, MS Word, MS Power Point).

## RESD 1110 ASSESSMENT OF GENERAL EDUCATION STUDENT LEARNING OUTCOMES:

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

1. **Reviewing** student's abilities to follow instructions in the laboratory work by means of frequently evaluating hands-on laboratory projects.
2. **Reviewing** student's abilities to understand the theory presented in lectures by means of administering frequent assessments of presented material.
3. **Conducting** multiple choice exams periodically throughout the semester.
4. **Evaluating** all assessments and projects with emphasis on student's ability to communicate and to properly use the professional vocabulary.
5. **Reviewing** student's assignments and class participation.

## RESD 1110 COURSE LEARNING OUTCOMES:

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

1. **Recognize** each tooth, its form and function, and locate it in its correct position in the oral cavity.
2. **Identify** Universal, Palmer and FDI tooth notation systems.
3. **Describe** the composition of each tooth structure.
4. **Identify** the geometric concept of crown outline.
5. **Describe** the composition and function of the periodontium.
6. **Describe** the anatomy and physiology of the temporo-mandibular joint.
7. **Describe** the salient anatomical features and functions of anterior and posterior teeth.
8. **Carve** selected maxillary and mandibular teeth with anatomical landmarks.
9. **Label** the anatomical landmarks of each tooth.
10. **Utilize** proper anatomical and occlusal concepts and terminology.



## RESD 1110 ASSESSMENT & GRADING

LECTURE	40%
LABORATORY	60%
<b>*TOTAL - FINAL GRADE</b>	<b>100%</b>

- \* Additional projects may be available at the discretion of the faculty teaching
- \* Participation will be based on alertness in class, participation and vigor in class discussions, and assessments submissions.
- \* Each student 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:

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

## RESD 1110 LECTURE ASSESSMENT CRITERIA

Lecture 40% of total course grade

**Assessments** \_\_\_\_\_ **24%**

Online Assessment 1	2%
Online Assessment 2	2%
Online Assessment 3	2%
Online Assessment 4	2%
Online Assessment 5	2%
Online Assessment 6	2%
Online Assessment 7	2%
Online Assessment 8	2%
Online Assessment 9	2%
Online Assessment 10	2%
Online Assessment 11	2%
Online Assessment 12	2%

**Drawings** \_\_\_\_\_ #8, #3 – 8% for each tooth \_\_\_\_\_ **16%**

Instructions and examples for tooth drawings are posted in Brightspace. Draw teeth:

**#8 Maxillary Right Central Incisor 8%**

**#3 Maxillary Right First Molar 8% Tooth**

Drawing Assessment:

0.5%	Title	missing tooth's name -0.1%, student's name -0.1%, date -0.1%, scale -0.1%, Universal/Palmer/FDI notation-0.1%
1%	Label Letters	not in upper case-0.5%, not straight/uneven/disorganized-0.5%
0.5%	Label Lines	lines crossing-0.2%, not straight/disorganized/not neat-0.3%
0.5%	Page Layout	drawing not centered-0.2%, disorganized/not neat-0.3%
0.5%	Drawing Scale	smaller/larger scale than instructed-0.2%, not drawn to scale-0.3%
5%	Anatomical details	incorrect or missing primary anatomy/landmarks -1%, incorrect or missing secondary anatomy/landmarks-1%, incorrect facial/lingual contour-1%, mesial/distal contour-1%, incisal/occlusal contour-1%

Quiz	_____	10%
Midterm	_____	20%
Final	_____	30%
<b>*TOTAL – LECTURE</b>		<b>100%</b>

OPTIONAL: 5% extra credit towards final grade

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

### RESD 1110 LAB ASSESSMENT CRITERIA

#### Laboratory Projects grades

<b>Laboratory Quizzes</b>	_____	<b>10%</b>	Incisors
	_____	2%	
Canines	_____	2%	
Premolars	_____	2%	
Molars	_____	2%	
Dentition	_____	2%	
<b>Tooth Wax Carvings</b>	_____	<b>80%</b>	
Incisors	Maxillary: 7, 8, 9, 10	Mandibular: 23, 24, 25, 26	4% each tooth
Canines	Maxillary: 6, 11,	Mandibular: 22, 27	4% each tooth
Premolars	Maxillary: 4, 5	Mandibular: 28, 29	4% each tooth
Molars	Maxillary: 2, 3	Mandibular: 30, 31	4% each tooth
<b>Final Practical Examination</b>	_____	<b>10%</b>	
	Maxillary Central Incisors 8 or 9	_____	5%
	Mandibular <u>or</u> Maxillary 1 <sup>st</sup> Molar	_____	5%
<b>*TOTAL – LAB</b>		<b>100%</b>	

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

### RESD 1110 LECTURE SCHEDULE

(Tentative Schedule, subject to change)

Lecture	Date Tu/Th	Topic, Assessment	Reading Assignment
1	Tu 9/3 Th 8/29	Lecture: INTRODUCTION TO TOOTH MORPHOLOGY - Online Assessment 1 - posted	<ul style="list-style-type: none"> <li>Familiarize yourself with Brightspace.</li> <li>Presentation #1</li> <li>AFP 47-103 Vol I p.94-111 3.1-3.33</li> <li><i>Anatomy of Orofacial Structures</i> – get familiar with textbook content.</li> </ul>
2	Tu 9/10 Th 9/5	Lecture: INTRODUCTION TO TOOTH MORPHOLOGY - Online Assessment 2 - posted	<ul style="list-style-type: none"> <li>Presentation #2</li> <li>AFP 47-103 Vol I p.112-120 3.35-3.42</li> <li><i>Anatomy of Orofacial Structures</i> – Unit II Dental Anatomy: 2 Tooth Functions and Terms</li> </ul>
3	Tu 9/17 Th 9/12	Lecture: NAMES OF TEETH AND THEIR SURFACES - <b>Online Assessment 1 Due (2%)</b> - <b>Online Assessment 2 Due (2%)</b> - Online Assessment 3 - posted	<ul style="list-style-type: none"> <li>Presentation #3</li> <li>AFP 47-103 Vol I p. 123-129 4.1-4.3</li> <li><i>Anatomy of Oral Structure</i> – Unit II Dental Anatomy: 2 Tooth Functions and Terms, 10 Tooth Identification</li> </ul>

4	<b>Tu 9/24 Th 9/19</b>	Lecture: TOOTH STRUCTURE AND TISSUE - <b>Online Assessment 3 Due (2%)</b> - Online Assessment 4 - posted	<ul style="list-style-type: none"> <li>• Presentation #4</li> <li>• AFP 47-103 Vol I p. 129-134 4.4-4.7</li> <li>• <i>Anatomy of Orofacial Structures</i> - Unit II Dental Anatomy: 3 Fundamental and Preventive Curvatures; 8 Supporting Structures, 9 Clinical Consideration</li> </ul>
5	<b>Tu 10/1 Th 9/26</b>	Lecture: TOOTH FORM AND FUNCTION - <b>Online Assessment 4 Due (2%)</b> - Online Assessment 5 - posted	<ul style="list-style-type: none"> <li>• Presentation #5</li> <li>• AFP 47-103 Vol I p. 134-137 4.8-4.9</li> <li>• <i>Anatomy of Orofacial Structures</i> - Unit II Dental Anatomy: 4 Dentition, 7 Dental Anomalies</li> </ul>
6	<b>Tu 10/8 Th 10/10</b>	Lecture: ANTERIOR TEETH: CENTRAL AND LATERAL INCISORS - <b>Online Assessment 5 Due (2%)</b>	<ul style="list-style-type: none"> <li>• Presentation #6</li> <li>• AFP 47-103 Vol I p. 137-138 4.10-4.11; p. 140 4.14, p.143 4.15, p.148 4.21-4.22</li> <li>• <i>Anatomy of Orofacial Structures</i> - Unit II</li> </ul>

		- Online Assessment 6 - posted	Dental Anatomy: 11 Root Morphology 12 Incisors
7	Tu 10/22 Th 10/17	<b>Lecture: QUIZ (10%)</b> Quiz review posted in Brightspace	<b>Quiz will take place during regularly scheduled class time. Cumulative exam.</b>
		OPTIONAL: Cumulative Assessment 5% Extra Credit in lecture is open during second half of the semester. It is an online, multiple entry, open book assessment to be completed by the end of the semester (due date: midnight, day before the final exam). You can complete it multiple times until you are satisfied with the level of your knowledge.	Use textbooks, lecture presentations and lab notes throughout the entire semester to understand the concepts and to answer the questions.
8	Tu 10/29 Th 10/24	Lecture: ANTERIOR TEETH: CANINES/CUSPIDS - <b>Online Assessment 6 Due (2%)</b> - Online Assessment 7 – posted	<ul style="list-style-type: none"> <li>• Presentation #7</li> <li>• AFP 47-103 Vol I p.144 4.38, p.149 4.23</li> <li>• <i>Anatomy of Orofacial Structures</i> - Unit II</li> </ul> Dental Anatomy: 13 Canines
9	Tu 11/5 Th 10/31	Lecture: POSTERIOR TEETH; PREMOLARS - <b>Drawing of tooth #8 due (8%)</b> - <b>Online Assessment 7 Due (2%)</b> - Online Assessment 8 - posted	<ul style="list-style-type: none"> <li>• Presentation #8</li> <li>• AFP 47-103 Vol I 145-146 4.17-4.18; p.150151 4.24-4.25</li> <li>• <i>Anatomy of Orofacial Structures</i> - Unit II</li> </ul> Dental Anatomy: 14 Premolars
10	Tu 11/12 Th 11/7	Lecture: POSTERIOR TEETH; 1ST MOLARS - <b>Online Assessment 8 Due (2%)</b> - Online Assessment 9 - posted	<ul style="list-style-type: none"> <li>• Presentation #9</li> <li>• AFP 47-103 Vol I p. 146 4.19, p.152 4.26</li> <li>• <i>Anatomy of Orofacial Structures</i> - Unit II</li> </ul> Dental Anatomy: 15 Molars
11	Tu 11/19 Th 11/14	<b>Lecture: MIDTERM (20%)</b> Midterm review posted in Brightspace	<b>Midterm exam will take place during regularly scheduled class time. Cumulative exam.</b>
12	Tu 11/26 Th 11/21	Lecture: POSTERIOR TEETH; DEVELOPMENT OF TEETH; Periodontium composition and function - <b>Online Assessment 9 Due (2%)</b> - Online Assessment 10 - posted	<ul style="list-style-type: none"> <li>• Presentation #10</li> <li>• AFP 47-103 Vol I p. 147 4.20, p.152 4.27</li> <li>• <i>Anatomy of Orofacial Structures</i> - Unit II</li> </ul> Dental Anatomy: 15 Molars
13	Tu 12/3 Th 12/5	Lecture: OCCLUSION & FUNCTION - <b>Drawing of tooth #3 due (8%)</b> - <b>Online Assessment 10 Due (2%)</b> - Online Assessment 11 - posted	<ul style="list-style-type: none"> <li>• Presentation #11</li> <li>• <i>Anatomy of Orofacial Structures</i> - Unit II</li> </ul> Dental Anatomy: 5 Development, Form and Eruption; Unit III: 17 Basic Tissue, 18 Development of Orofacial Complex, 19 Dental Lamina and Enamel Organ, 20 Enamel, Dentin and Pulp, 21 Root Formation and Attachment Apparatus, 22 Eruption and Shedding of Teeth
14	Tu 12/10 Th 12/12	Lecture: TMJ ANATOMY & FUNCTION - <b>Online Assessment 11 Due (2%)</b> - <b>OPTIONAL Open Online Cumulative Assessment Due – on day before Final Exam by midnight (5% extra credit)</b> - Online Assessment 12 - posted	<ul style="list-style-type: none"> <li>• Presentation #12</li> <li>• AFP 47-103 Vol I p. 120-122 3.42-3.50</li> <li>• <i>Anatomy of Orofacial Structures</i> - Unit II</li> </ul> Dental Anatomy: 5 Development, Form and Eruption; Unit IV Head and Neck Anatomy: 29 Temporomandibular Joint

<b>15</b>	<b>Tu 12/17</b> <b>Th 12/19</b>	<b>Lecture: FINAL (30%)</b> Final review posted in Brightspace - Online Assessment 12 Due (2%)	<b>Final exam will take place during regularly scheduled class time. Cumulative exam.</b>
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## **RESD 1110 LECTURE HYBRID**

### **I-II LECTURES**

#### **TOPIC: INTRODUCTION TO RESD 1110 TOOTH MORPHOLOGY COURSE (TWO LECTURE HOURS)**

##### **I. INTRO: ONLINE PLATFORM INTRODUCTION AND OVERVIEW**

###### **1. Brightspace menu and its components**

- Announcements
- Faculty Info; Office Hours
- Course Documents
- Weekly Sessions
- Discussion Board
- Zoom
- Books & Articles
- Web Links
- City Tech Library

##### **II. INTRODUCTION TO TOOTH MORPHOLOGY**

###### **A. GROUPS OF TEETH**

1. Maxillary
2. Mandibular
3. Anterior
4. Posterior

###### **B. TYPES OF TEETH**

1. Deciduous teeth
2. Permanent teeth

###### **C. TYPES OF NOTATION SYSTEMS**

1. Universal
2. Palmer
3. FDI

#### **READING ASSIGNMENT:**

Lecture 1: AFP, Vol. I, p. 94-120 3.1-3.33. 3.35-3.42, *Anatomy of Orofacial Structures* – get familiar with textbook content

Lecture 2: AFP 47-103 Vol I p.112-120 3.35-3.42; *Anatomy of Orofacial Structures* – Unit II Dental Anatomy: 2 Tooth Functions and Terms

**CONDITIONS:** Given a lecture and discussion using visual aids and reading assignments

**PERFORMANCE:** The student should be able to:

1. Become familiar with online platform and virtual course set up
2. Identify groups/types of teeth
3. Understand Notation Systems

**EXTENT & CRITERIA:** With at least 70% accuracy at the end of one lecture hour

### **III LECTURE**

#### **TOPIC: NAMES OF TEETH AND THEIR SURFACES (ONE LECTURE HOUR)**

##### **A. NAMES OF TEETH**

1. Central
2. Lateral
3. Cuspid
4. Pre-molar/Bi-cuspid
5. Molars

##### **B. SURFACES OF TEETH**

1. Mesial
2. Distal
3. Buccal
4. Lingual
5. Incisal
6. Occlusal
7. Cervical

**READING ASSIGNMENT:** AFP 47-103 Vol I p. 123-129 4.1-4.3; *Anatomy of Oral Structure* – Unit II Dental Anatomy: 2 Tooth

## Functions and Terms, 10 Tooth Identification

CONDITIONS: Given a lecture and discussion using visual aids and reading assignments

PERFORMANCE: The student should be able to:

1. Name the teeth
2. Identify surfaces of the teeth

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

### **IV LECTURE**

#### **TOPIC: TOOTH STRUCTURE AND TISSUE (ONE LECTURE HOUR)**

A. Define the following terms:

- |                             |                           |
|-----------------------------|---------------------------|
| a. dentin.                  | k. developmental grooves. |
| b. enamel.                  | m. fossa.                 |
| c. cementum. .              | n. fissure                |
| d. pulp.                    | o. pit.                   |
| e. cemento-enamel junction. | p. cusps.                 |
| f. cervical. .              | r. contact areas.         |
| g. anatomical crown         | s. embrasure areas.       |
| h. clinical crown.          | t. alveolus.              |
| i. ridges.                  | u. sulcus.                |
| j. cingulum                 |                           |

READING ASSIGNMENT: AFP 47-103 Vol I p. 129-134 4.4-4.7; *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 3 Fundamental and Preventive Curvatures; 8 Supporting Structures, 9 Clinical Consideration

CONDITIONS: Given a lecture and discussion using visual aids and reading assignments

PERFORMANCE: The student should be able to:

1. Identify tooth structures
2. Identify Tissue structures

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

### **V LECTURE**

#### **TOPIC: TOOTH FORM AND FUNCTION (ONE LECTURE HOUR) A.**

##### **FORM**

1. Describe how tooth form and function can be expressed in geometric outline.
2. Match geometric shapes with tooth form.
3. Define, differentiate and locate:
  - a. proximal contact areas
  - b. interproximal spaces
  - c. embrasure areas

##### **B. FUNCTION**

- a. Hold
- b. Sheer
- c. Tear
- d. Grind

READING ASSIGNMENT: AFP 47-103 Vol I p. 134-137 4.8-4.9; *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 4 Dentition, 7 Dental Anomalies

CONDITIONS: Given a lecture and discussion using visual aids and reading assignments

PERFORMANCE: The student should be able to:

1. Identify tooth forms
2. Describe functions of the teeth

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

## **VI LECTURE**

### **TOPIC: ANTERIOR TEETH: CENTRAL AND LATERAL INCISORS (ONE LECTURE HOUR)**

1. Eruption
2. Form: a. Height of contour b Length to width c. Grid 3. Function: a. Incisal edge  
b. Cingulum

READING ASSIGNMENT: AFP 47-103 Vol I p. 137-138 4.10-4.1 p. 140 4.14, p.143 4.15, p.148 4.21-4.22; *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 11 Root Morphology 12 Incisors

CONDITIONS: Given a lecture and discussion using visual aids and reading assignments

PERFORMANCE: The student should be able to:

1. Provide characteristics of anterior teeth
2. Describe eruption, form and function for central incisors
3. Describe eruption, form and function for lateral incisors
4. Identify similarities and differences between central and lateral incisors

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

## **VII LECTURE**

### **TOPIC: QUIZ 10% (ONE LECTURE HOUR)**

CONDITIONS: Given a prior review of the course material

PERFORMANCE: The student should be able to pass Quiz exam

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

## **VIII LECTURE**

### **TOPIC: ANTERIOR TEETH: CUSPIDS/CANINES (ONE LECTURE HOUR)**

1. Form
2. Function

READING ASSIGNMENT: AFP 47-103 Vol I p.144 4.38, p.149 4.23; *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 13 Canines

CONDITIONS: Given a lecture and discussion using visual aids and reading assignments

PERFORMANCE: The student should be able to:

1. Provide characteristics of canine teeth
2. Describe eruption, form and function for maxillary canines
3. Describe eruption, form and function for mandibular canines
4. Identify similarities and differences between maxillary and mandibular canines

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

## **IX LECTURE**

### **TOPIC: POSTERIOR TEETH: PREMOLARS (ONE LECTURE HOUR)**

1. Mandibular Premolars: Form & Function
2. Maxillary Premolars: Form & Function

READING ASSIGNMENT: AFP 47-103 Vol I 145-146 4.17-4.18; p.150-151 4.24-4.25; *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 14 Premolars

CONDITIONS: Given a lecture and discussion using visual aids and reading assignments

PERFORMANCE: The student should be able to:

1. Provide characteristics of premolar teeth
2. Describe eruption, form and function for maxillary premolars
3. Describe eruption, form and function for mandibular premolars
4. Identify similarities and differences between maxillary and mandibular premolars

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

## **X LECTURE**

### **POSTERIOR TEETH; 1<sup>ST</sup> MOLARS (ONE LECTURE HOUR)**

1. Mandibular 1<sup>st</sup> Molars: Form & Function
2. Maxillary 1<sup>st</sup> Molars: Form & Function

READING ASSIGNMENT: AFP 47-103 Vol I p. 146 4.19, p.152 4.26; *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 14 Molars

CONDITIONS: Given a lecture and discussion using visual aids and reading assignments

PERFORMANCE: The student should be able to:

1. Provide characteristics of 1<sup>st</sup> molar teeth
2. Describe eruption, form and function for maxillary 1<sup>st</sup> molars
3. Describe eruption, form and function for mandibular 1<sup>st</sup> molars
4. Identify similarities and differences between maxillary and mandibular 1<sup>st</sup> molars

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

## **XI LECTURE**

### **TOPIC: MIDTERM 20% (ONE LECTURE HOUR)**

CONDITIONS: Given a prior review of the course material

PERFORMANCE: The student should be able to pass Midterm exam

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

## **XII LECTURE**

### **TOPIC: POSTERIOR TEETH; 2<sup>ND</sup> & 3<sup>RD</sup> MOLARS (ONE LECTURE HOUR)**

1. Mandibular 2<sup>nd</sup> & 3<sup>rd</sup> Molars: Form & Function
2. Maxillary 2<sup>nd</sup> & 3<sup>rd</sup> Molars: Form & Function

READING ASSIGNMENT: AFP 47-103 Vol I p. 147 4.20, p.152 4.27; *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 14 Molars

CONDITIONS: Given a lecture and discussion using visual aids and reading assignments

PERFORMANCE: The student should be able to:

1. Provide characteristics of 2<sup>nd</sup> and 3<sup>rd</sup> molars
2. Describe eruption, form and function for maxillary 2<sup>nd</sup> and 3<sup>rd</sup> molars
3. Describe eruption, form and function for mandibular 2<sup>nd</sup> and 3<sup>rd</sup> molars
4. Identify similarities and differences between maxillary and mandibular 2<sup>nd</sup> and 3<sup>rd</sup> molars

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

## **XIII LECTURE**

### **TOPIC: DEVELOPMENT OF TEETH, PERIODONTIUM - COMPOSITION AND FUNCTION, ABNORMALITIES, ANOMALIES & GENETICS (ONE LECTURE HOUR)**

READING ASSIGNMENT: *Anatomy of Orofacial Structures - Structures* - Unit II Dental Anatomy: 5 Development, Form and Eruption; Unit III: 17 Basic Tissue, 18 Development of Orofacial Complex, 19 Dental Lamina and Enamel Organ, 20 Enamel, Dentin and Pulp, 21 Root Formation and Attachment Apparatus, 22 Eruption and Shedding of Teeth

CONDITIONS: Given a lecture and discussion using visual aids and reading assignments

PERFORMANCE: The student should be able to:

1. Describe the development of teeth from "bud" or "lobe" form.
2. List the normal sequence for appearance of permanent dentition.
3. Describe the differences in form and number between primary and secondary dentition.



4. List problems that arise from loss of teeth.
5. Describe anomalies and abnormalities in human dentition and how the dentist may elect to solve them.
6. Describe the technician's role in the dentist's treatment of such problems

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

#### **XIV LECTURE**

##### **TOPIC: DEVELOPMENT OF TEETH, TMJ ANATOMY & FUNCTION (ONE LECTURE HOUR)**

READING ASSIGNMENT: AFP 47-103 Vol I p. 120-122 3.42-3.50; *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 5 Development, Form and Eruption; Unit IV Head and Neck Anatomy: 29 Temporomandibular Joint

CONDITIONS: Given a lecture and discussion using visual aids and reading assignments

PERFORMANCE: The student should be able to:

1. Describe the function of Temporo-Mandibular joint including
  - Movements: rotational and gliding
  - TMJ relation with teeth and their functions
2. List TMJ components and describe their functions: Articular Disc, Synovial Cavities, Synovial Fluid, Capsule, Temporomandibular Ligament
3. Identify effects that TMJ has on the natural dentition's form and function
4. Explain problems associated with TMJ including
  - Pain in the TMJ
  - Internal problems in the TMJ (TMJ sounds, disc derangement, subluxation, arthritis and other pain)

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

#### **XV LECTURE**

##### **TOPIC: FINAL EXAM 30% (ONE LECTURE HOUR)**

CONDITIONS: Given a prior review of the cumulative course materials

PERFORMANCE: The student should be able to pass Final exam

EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour

RESD 1110 LECTURE PASS EXTENT & CRITERIA: With at least 70% accuracy at the end of all lecture hours

## **RESD 1110 LABORATORY SCHEDULE – LABORATORY SESSIONS WILL BE HELD IN-CLASS**

(Tentative Schedule, subject to change)

Laboratory 15 weeks (2 lab sessions per week)	Date	Topic	Reading Assignment
Week 1, 1-2 lab sessions	According to Academic Calendar	Online Laboratory: Topic: Controlling and manipulating wax	Becoming familiar with: <ul style="list-style-type: none"> <li>• Brightspace</li> <li>• RESD 1110 Lab Notes p.1</li> <li>• AFP v. I p.29-38 textbook</li> <li>• <i>Anatomy of Orofacial Structures</i> textbook</li> </ul>
Weeks 2-3, 3-6 lab sessions	According to Academic Calendar	Online Laboratory: Topic: Waxing Maxillary Incisors: 7, 8, 9, 10	<ul style="list-style-type: none"> <li>• RESD 1110 Lab Notes p.1, 3, 5-7</li> <li>• AFP v.I p.94-95, 123-126, 143-144, 149</li> <li>• <i>Anatomy of Orofacial Structures</i> – Unit II Dental Anatomy: 10 Tooth Identification, 12 Incisors</li> </ul>
Weeks 4-5, 7- 10 lab sessions	According to Academic Calendar	Online Laboratory: Topic: Waxing Mandibular Incisors: 23, 24, 25, 26	<ul style="list-style-type: none"> <li>• RESD 1110 Lab Notes p.1, 3, 5, 9-10</li> <li>• AFP v.I p.127-129, 143-144, 149</li> <li>• <i>Anatomy of Orofacial Structures</i> – Unit II Dental Anatomy: 10 Tooth Identification, 12 Incisors</li> </ul>
Week 6, 11-12 lab sessions	According to Academic Calendar	Online Laboratory: Topic: <b>GRADING Maxillary and Mandibular Incisors, 32%</b> <b>QUIZ: Incisors 2%</b>	
Weeks 7-8, 13-16 lab sessions	According to Academic Calendar	Online Laboratory: Topic: Waxing Maxillary & Mandibular Cuspids/Canines: 6, 11, 22, 27	<ul style="list-style-type: none"> <li>• RESD 1110 Lab Notes p.1, 3, 5, 8-11</li> <li>• AFP v.I p.130-139, 144, 149-150</li> <li>• <i>Anatomy of Orofacial Structures</i> – Unit II Dental Anatomy: 10 Tooth Identification, 13 Canines</li> </ul>
Week 9, 17-18 lab session	According to Academic Calendar	Online Laboratory: Topic: <b>GRADING Maxillary and Mandibular Cuspid/Canines, 16 %</b> <b>QUIZ: Canines 2%</b>	
Weeks 9-10, 19-22 lab sessions	According to Academic Calendar	Online Laboratory: Topic: Waxing Maxillary & Mandibular Premolars: 4, 5, 28, 29	<ul style="list-style-type: none"> <li>• RESD 1110 Lab Notes p.1, 3, 12-21</li> <li>• AFP v.I p.139-143, 145-146, 150-151</li> <li>• <i>Anatomy of Orofacial Structures</i> – Unit II Dental Anatomy: 10 Tooth Identification, 14 Premolars</li> </ul>
Week 11, 21-22 lab sessions	According to Academic Calendar	Online Laboratory: Topic: <b>GRADING Maxillary and Mandibular Premolars, 16%</b> <b>QUIZ: Premolars 2%</b>	
Weeks 12-13, 23-26 lab sessions	According to Academic Calendar	Online Laboratory: Topic: Waxing Maxillary & Mandibular Molars: 2, 3, 30, 31	<ul style="list-style-type: none"> <li>• RESD 1110 Lab Notes p. 1, 4, 12, 22-32,</li> <li>• AFP v.I p. 123-137, 141-143, 146-147, 152-153, 171-172</li> <li>• <i>Anatomy of Orofacial Structures</i> – Unit II Dental Anatomy: 10 Tooth Identification, 15 Molars</li> </ul>

Week 14, 27-28 lab sessions	According to Academic Calendar	Online Laboratory: Topic: <b>GRADING Maxillary and Mandibular Molars, 16 %</b> <b>QUIZ: Molars 2%</b>	<ul style="list-style-type: none"> <li>• RESD 1110 Lab Notes review</li> <li>• AFP v.1 review</li> <li>• <i>Anatomy of Orofacial Structures</i> review</li> </ul>
Week 15, 29-30 lab sessions	According to Academic Calendar	Online Laboratory: Topic: <b>Final Practical examination, 10%</b> <b>QUIZ: Dentition 2%</b>	<ul style="list-style-type: none"> <li>• RESD 1110 Lab Notes review</li> <li>• AFP v.1 review</li> <li>• <i>Anatomy of Orofacial Structures</i> review</li> </ul>

### RESD 1110 LABORATORY OUTCOMES ASSESSMENT EVALUATION SHEET

#### **Tooth Carvings - 4% each tooth, 20 teeth - 80% Tooth Carvings Assessment:**

<b>Incisors</b>	<b>Maxillary: 7, 8, 9, 10</b>	<b>Mandibular: 23, 24, 25, 26</b>	<b>4% each tooth</b>	<b>32%</b>
<b>Canines</b>	<b>Maxillary: 6, 11,</b>	<b>Mandibular: 22, 27</b>	<b>4% each tooth</b>	<b>16%</b>
<b>Premolars</b>	<b>Maxillary: 4, 5</b>	<b>Mandibular 28, 29</b>	<b>4% each tooth</b>	<b>16%</b>
<b>Molars</b>	<b>Maxillary: 2, 3</b>	<b>Mandibular: 30, 31</b>	<b>4% each tooth</b>	<b>16%</b>

**Each tooth will be evaluated on 100% bases and 4% weight will be given to final grade:**

10% Tooth alignment	misalignment on facial-2%/lingual-2%/mesial-2%/distal-2%/incisal/occlusal-2%
10% Cervical line/Margin line	(overextended-2.5%, open-2.5%, uneven-2.5%, rough-2.5%)
10% Proximal contact areas	(too high/low-2.5%, too facial/lingual-2.5%, no contact-2.5%, heavy contact-2.5%)
10% Height of contour	(too high/low height of contour on facial-2.5%/lingual-2.5%/mesial-2.5%/distal 2.5%)
10% Embrasures	(too open/too closed incisal/occlusal-2%/mesial-2%/distal-2%/facial-2%/lingual embrasures-2%)
10% Line angles	(incorrect placement on incisal/occlusal-2%/facial-2%/lingual-2%/mesial-2%/distal-2% surface)
10% Marginal ridges	(too mesial/distal-2.5%, too high/low-2.5%, too thin/thick-2.5%, uneven-2.5%)
10% Surface Texture	(no texture-4%, rough-3%, does not match texture of adjacent teeth-3%)
20% Anatomy	(doesn't follow overall anatomical details of adjacent and opposing teeth on the facial-4%/lingual-4%/mesial-4%/distal-4%/incisal/occlusal-4%)

#### **Practical Final Exam – 2 teeth - 10%** **Final Examination Assessment:**

<b>Maxillary Central Incisors</b>	<b>8 or 9</b>	<b>- 5%</b>
<b>Mandibular or Maxillary</b>	<b>1st Molar</b>	<b>- 5%</b>

**Each tooth will be evaluated on following 100% bases:**

10% Tooth alignment	misalignment on facial-2%/lingual-2%/mesial-2%/distal-2%/incisal/occlusal-2%
10% Cervical line/Margin line	(overextended-2.5%, open-2.5%, uneven-2.5%, rough-2.5%)

10% Proximal contact areas	(too high/low-2.5%, too facial/lingual-2.5%, no contact-2.5%, heavy contact-2.5%)
10% Height of contour	(too high/low height of contour on facial-2.5%/lingual-2.5%/mesial-2.5%/distal-2.5%)
10% Embrasures	(too open/too closed incisal/occlusal-2%/mesial-2%/distal-2%/facial-2%/lingual embrasures-2%)
10% Line angles	(incorrect placement on incisal/occlusal-2%/facial-2%/lingual-2%/mesial-2%/distal-2% surface)
10% Marginal ridges	(too mesial/distal-2.5%, too high/low-2.5%, too thin/thick-2.5%, uneven-2.5%)
10% Surface Texture	(no texture-4%, rough-3%, does not match texture of adjacent teeth-3%) 20%
Anatomy	(doesn't follow overall anatomical details of adjacent and opposing teeth on the facial-4%/lingual-4%/mesial-4%/distal-4%/incisal/occlusal-4%)

**TOTAL Laboratory: 100%**

### **RESD 1110 LABORATORY OUTLINE**

**EQUIPMENT & SUPPLIES:** For each laboratory session the student will need the following:

1. PPE equipment for in-person classes: N95 or KN95 face mask, face shield, goggles, lab coat
2. *No Flame* unit
3. Waxing Instruments: PKT instruments, Zahle/Roach carver, #7 Wax spatula
4. Inlay wax
5. Red-blue pencil, regular pencil, permanent marker (black or blue)
6. Flexible millimeter ruler
7. Surgical blade knife and Murphy's knife
8. Small Hand Towel to clean the tools
9. Place mat (clear or gray preferred)
10. Scraper
11. Small brush for clean up

#### **1 LAB**

**TOPIC: STUDENTS WILL BECOME FAMILIAR WITH MANIPULATION OF MOLTEN WAX (ONE LABORATORY SESSION)**

READING ASSIGNMENT: Becoming familiar with Brightspace; RESD 1110 Lab Notes p.1; AFP v.I p.29-38; *Anatomy of Orofacial Structures* - get familiar with textbook content

CONDITIONS: Given a demonstration utilizing instruments, source of heat and molten wax

PERFORMANCE: The student should be able to control molten wax.

EXTENT & CRITERIA: The following will be evaluated:

- student following instructions
- student's ability to manipulate wax to achieve desired shape

\* With at least 70% accuracy at the end of three sessions

#### **2-3 LAB**

**TOPIC: MAXILLARY CENTRAL AND LATERAL INCISORS (TWO LABORATORY SESSIONS)**

READING ASSIGNMENT: RESD 1110 Lab Notes p.1,3,5-7; AFP v.I p.94-95, 123-126, 143-144, 149;

*Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 10 Tooth Identification, 12 Incisors

CONDITIONS: Given a demonstration on waxing maxillary central and lateral incisors

PERFORMANCE: The student should be able to wax a maxillary central and lateral incisors and identify their respective anatomical landmarks. Through homework assignments and repetitive practice, the student should also be able to demonstrate skills in waxing the maxillary central and lateral incisors.

EXTENT & CRITERIA: The following points will be evaluated in waxing the maxillary central and lateral incisors:

- Each tooth wax-up conforms to the anatomical details of adjacent teeth

\* With at least 70% accuracy at the end of three sessions

#### **4-5 LAB**

##### **TOPIC: MANDIBULAR CENTRAL AND LATERAL INCISORS (TWO LABORATORY SESSIONS)**

READING ASSIGNMENT: RESD 1110 Lab Notes p.1,3,5,9-10; AFP v.I p.127-129, 143-144, 149;

*Anatomy of Orofacial Structures* – Unit II Dental Anatomy: 10 Tooth Identification, 12 Incisors

CONDITIONS: Given a demonstration on waxing mandibular central and lateral incisors

PERFORMANCE: The student should be able to wax a mandibular central and lateral incisors and identify their respective anatomical landmarks. Through homework assignments and repetitive practice, the student should also be able to demonstrate skills in waxing the mandibular central and lateral incisors.

EXTENT & CRITERIA: The following points will be evaluated in waxing the mandibular central and lateral incisors: - Each tooth wax-up conforms to the anatomical details of adjacent teeth. \* With at least 70% accuracy at the end of three sessions.

#### **6 LAB**

##### **TOPIC: GRADING MAXILLARY AND MANDIBULAR CENTRAL AND LATERAL INCISORS WAX UPS 32%**

**QUIZ: Incisors 2%**

**(ONE LABORATORY SESSION)**

#### **7-8 LAB**

##### **TOPIC: MAXILLARY AND MANDIBULAR CANINES (TWO LABORATORY SESSIONS)**

READING ASSIGNMENT: RESD 1110 Lab Notes p.1,3,5,8,11; AFP v.I p.130-139, 144, 149-150;

*Anatomy of Orofacial Structures* – Unit II Dental Anatomy: 10 Tooth Identification, 13 Canines

CONDITIONS: Given a demonstration on waxing a maxillary and mandibular canines/cuspids

PERFORMANCE: The student should be able to wax maxillary and mandibular canines and identify their respective anatomical landmarks. Through homework assignments and repetitive practice, the student should demonstrate skills in waxing the maxillary and mandibular canines.

EXTENT & CRITERIA: The following points will be evaluated in waxing the maxillary and mandibular canines: - Each tooth wax-up conforms to the anatomical details of adjacent teeth. \* With at least 70% accuracy at the end of three sessions.

#### **9 LAB**

##### **TOPIC: GRADING MAXILLARY AND MANDIBULAR CANINE WAX UPS 16%**

**QUIZ: Canines 2%**

**(ONE LABORATORY SESSION)**

#### **9-10 LAB**

##### **TOPIC: MAXILLARY AND MANDIBULAR PREMOLARS (TWO LABORATORY SESSIONS)**

READING ASSIGNMENT: RESD 1110 Lab Notes p.1,4,12-21; AFP v.I p.139-143, 145-146, 150-151;

*Anatomy of Orofacial Structures* – Unit II Dental Anatomy: 10 Tooth Identification, 14 Premolars

CONDITIONS: Given a demonstration on waxing maxillary and mandibular premolars PERFORMANCE: The student should be able to wax maxillary and mandibular premolars and identify their respective anatomical landmarks. Through homework assignments and repetitive practice, the student should demonstrate skills in waxing the maxillary and mandibular premolars.

EXTENT & CRITERIA: The following points will be evaluated in waxing the maxillary and mandibular premolars: - Each tooth wax-up conforms to the anatomical details of adjacent teeth. \* With at least 70% accuracy at the end of three sessions.

#### **11 LAB**

##### **TOPIC: GRADING MAXILLARY AND MANDIBULAR PREMOLARS WAX UPS 16% QUIZ:**

**Premolars 2%**

**(ONE LABORATORY SESSION)**

### **12-13 LAB**

#### **TOPIC: MAXILLARY AND MANDIBULAR MOLARS (TWO LABORATORY SESSIONS)**

READING ASSIGNMENT: RESD 1110 Lab Notes p.1,4,12,22-32, AFP v.I p. 123-137, 141-143, 146-147, 152-153, 171-172; *Anatomy of Orofacial Structures* – Unit II Dental Anatomy: 10 Tooth Identification, 15 Molars

CONDITIONS: Given a demonstration on waxing maxillary and mandibular molars PERFORMANCE: The student should be able to wax maxillary and mandibular molars and identify their respective anatomical landmarks. Through homework assignments and repetitive practice, the student should demonstrate skills in waxing the maxillary and mandibular molars.

EXTENT & CRITERIA: The following points will be evaluated in waxing the maxillary and mandibular molars: - Each tooth wax-up conforms to the anatomical details of adjacent teeth. \* With at least 70% accuracy at the end of three sessions.

### **14 LAB**

#### **TOPIC: GRADING MAXILLARY AND MANDIBULAR MOLARS WAX UPS 16% QUIZ:**

##### **Molars 2%**

READING ASSIGNMENT: RESD 1110 Lab Notes review, AFP v.1 review; *Anatomy of Orofacial Structures* review (ONE LABORATORY SESSION)

### **15 LAB**

#### **TOPIC: PRACTICAL EXAMINATION 10%**

##### **QUIZ: Dentition 2%**

##### **(ONE LABORATORY SESSION)**

READING ASSIGNMENT: RESD 1110 Lab Notes review, AFP v.1 review; *Anatomy of Orofacial Structures* review

CONDITIONS: Given instructions regarding final in-lab wax up of one maxillary central incisor and one maxillary or mandibular first molar.

PERFORMANCE: The student should be able to complete the full contour wax-up of one maxillary central incisor and one maxillary or mandibular first molar, as well as identify their respective anatomical landmarks. Through laboratory exercises, homework assignments and repetitive practice throughout the semester, the student should demonstrate skills in waxing the anterior and posterior teeth.

EXTENT & CRITERIA: The following points will be evaluated:

1. The wax ups conform to the anatomical details of the adjacent teeth.
- With at least 70% accuracy at the end of one sessions.

LABORATORY PASS EXTENT & CRITERIA: With at least 70% accuracy at the end of all laboratory sessions

**NEW YORK CITY COLLEGE OF TECHNOLOGY  
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**DEPARTMENT OF THE CITY  
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## **FALL 2024 RESD 1110 CALENDAR**

**LECTURE (HYBRID, 15 weeks, 1 lecture session per week)**

**LABORATORY Schedule (IN-CLASS, 15 weeks, 2 lab sessions per week)**

### **Tuesday & Thursday Schedules**

**#1 Lecture September 3 Tu, August 29 Th Lecture: INTRODUCTION TO RESD 1110 TOOTH MORPHOLOGY**

**Assignments to be completed before the next lecture:**

- Familiarize yourself with online platform
- **Online Assessment #1 - posted**
- Reading Assignments:
  - **Presentation #1**
  - AFP 47-103 Vol I p.94-111 3.1-3.33

- *Anatomy of Orofacial Structures* -get familiar with textbook content

### 1 Lab: Introduction, Controlling and Manipulate wax

READING ASSIGNMENT: Becoming familiar with online platform; RESD 1110 Lab Notes p.1; AFP v.I p.29-38; *Anatomy of Orofacial Structures* - become familiar with textbook content (since there are numerous versions, no page numbers will be provided)

### #2 Lecture September 10 Tu, 5 Th Lecture: INTRODUCTION TO TOOTH MORPHOLOGY Assignments to be completed before the next lecture:

- Online Assessment #2 - posted
- Reading Assignments:
  - Presentation #2
  - AFP 47-103 Vol I p.112-120 3.35-3.42
  - *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 2 Tooth Functions and Terms

### 2-3 Lab: Waxing Maxillary Incisors: 7, 8, 9, 10

READING ASSIGNMENT: RESD 1110 Lab Notes p.1,3,5-7; AFP v.I p.94-95, 123-126, 143-144, 149; *Anatomy of Orofacial Structures* – Unit II Dental Anatomy: 10 Tooth Identification, 12 Incisors

### #3 Lecture September 17 Tu, 12 Th Lecture: NAMES OF TEETH AND THEIR SURFACES Assignments to be completed before the next lecture:

- Online Assessment 1 Due (2%)
- Online Assessment 2 Due (2%)
- Online Assessment #3 - posted
- Reading Assignments:
  - Presentation #3
  - AFP 47-103 Vol I p. 123-129 4.1-4.3
  - *Anatomy of Oral Structure* – Unit II Dental Anatomy: 2 Tooth Functions and Terms, 10 Tooth Identification

### 4-5 Lab: Waxing Mandibular Incisors: 23, 24, 25, 26

READING ASSIGNMENT: RESD 1110 Lab Notes p.1,3,5,9-10; AFP v.I p.127-129, 143-144, 149; *Anatomy of Orofacial Structures* – Unit II Dental Anatomy: 10 Tooth Identification, 12 Incisors

### #4 Lecture September 24 Tu, 19 Th Lecture: TOOTH STRUCTURE AND TISSUE Assignments to be completed before the next lecture:

- Online Assessment 3 Due (2%) - Online Assessment #4 - posted • Reading Assignments:
- Presentation #4
- AFP 47-103 Vol I p. 129-134 4.4-4.7
- *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 3 Fundamental and Preventive Curvatures; 8 Supporting Structures, 9 Clinical Consideration

### 6 Lab: GRADING Maxillary and Mandibular Incisors, 32%; QUIZ: Incisors 2%

### #5 Lecture October 1 Tu, September 26 Th Lecture: TOOTH FORM AND FUNCTION Assignments to be completed before the next lecture:

- Online Assessment 4 Due (2%) - Online Assessment #5 - posted • Reading Assignments:
- Presentation #5
- AFP 47-103 Vol I p. 134-137 4.8-4.9

- *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 4 Dentition, 7 Dental Anomalies

### 7-8 Lab: Waxing Maxillary & Mandibular Cuspids/Canines: 6, 11, 22, 27

READING ASSIGNMENT: RESD 1110 Lab Notes p.1,3,5,8,11; AFP v.I p.130-139, 144, 149-150; *Anatomy of Orofacial Structures* – Unit II Dental Anatomy: 10 Tooth Identification, 13 Canines

#### #6 Lecture **October 8 Tu, 10 Th** Lecture: ANTERIOR TEETH: CENTRAL AND LATERAL INCISORS Assignments to be completed before the next lecture:

- Online Assessment 5 Due (2%) - Online Assessment #6 - posted • Reading Assignments:
- **Presentation #6**
- AFP 47-103 Vol I p. 137-138 4.10-4.11, p. 140 4.14, p.143 4.15, p.148 4.21-4.22,
- *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 11 Root Morphology 12 Incisors

### 9 Lab: GRADING Maxillary and Mandibular Cuspid/Canines, 16 %; QUIZ: Canines 2%

#### #7 Lecture **October 22 Tu, 17 Th** Lecture: QUIZ (10%) Quiz will take place during regularly scheduled class time. Quiz Exam review is posted in Brightspace.

#### #8 Lecture **October 29 Tu, 24 Th** Lecture: ANTERIOR TEETH: CANINES/CUSPIDS Assignments to be completed before the next lecture:

- Online Assessment 6 Due (2%)
- Online Assessment #7 – posted
- **OPTIONAL: Cumulative Assessment 5% Extras Credit- posted** • Reading Assignments:
- **Presentation #7**
- AFP 47-103 Vol I p.144 4.38, p.149 4.23
- *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 13 Canines

#### # 9 Lecture **November 5 Tu, October 31 Th** Lecture: POSTERIOR TEETH: PREMOLARS Assignments to be completed before the next lecture:

- Drawing of tooth #8 Due (8%)
- Online Assessment 7 Due (2%) - Online Assessment #8 - posted • Reading Assignments:
- **Presentation #8**
- AFP 47-103 Vol I 145-146 4.17-4.18; p.150-151 4.24-4.25
- *Anatomy of Oral Structure* - Unit II Dental Anatomy: 14 Premolars

### 9-10 Lab: Waxing Maxillary & Mandibular Premolars: 4, 5, 28, 29

READING ASSIGNMENT: RESD 1110 Lab Notes p.1,4,12-21; AFP v.I p.139-143, 145-146, 150-151; *Anatomy of Orofacial Structures* – Unit II Dental Anatomy: 10 Tooth Identification, 14 Premolars

#### #10 Lecture **November 12 Tu, 7 Th** Lecture: POSTERIOR TEETH: 1ST MOLARS Assignments to be completed before the next lecture:

- Online Assessment 8 Due (2%) - Online Assessment #9 - posted • Reading Assignments:
- **Presentation #9**
- AFP 47-103 Vol I p. 146 4.19, p.152 4.26
- *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 15 Molars

### 11 Lab: GRADING Maxillary and Mandibular Premolars, 16%; QUIZ: Premolars 2%

#### #11 Lecture **November 19 Tu, 14 Th** MIDTERM (20%)



**Midterm will take place during regularly scheduled class time. Midterm review is posted in Brightspace.**

**12-13 Lab: Waxing Maxillary & Mandibular Molars: 2, 3, 30, 31**

READING ASSIGNMENT: RESD 1110 Lab Notes p.1,4,12,22-32. AFP v.I p. 123-137, 141-143, 146-147, 152-153, 171-172; *Anatomy of Orofacial Structures* – Unit II Dental Anatomy: 10 Tooth Identification, 15 Molars

**#12 Lecture November 26 Tu, 21 Th Lecture: DEVELOPMENT OF TEETH; Periodontium composition & function**

**Assignments to be completed before the next lecture:**

- **Online Assessment 9 Due (2%)** - Online Assessment #10 - posted • Reading Assignments:
- **Presentation #10**
- AFP 47-103 Vol I p. 147 4.20, p.152 4.27
- *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 5 Development, Form and Eruption; Unit III: 17 Basic Tissue, 18 Development of Orofacial Complex, 19 Dental Lamina and Enamel Organ, 20 Enamel, Dentin and Pulp, 21 Root Formation and Attachment Apparatus, 22 Eruption and Shedding of Teeth

**#13 Lecture December 3 Tu, 5 Th Lecture: OCCLUSION & FUNCTION Assignments**

**to be completed before the next lecture:**

- **Drawing of tooth #3 Due (8%)**
- **Online Assessment 10 Due (2%)** - Online Assessment #11 - posted • Reading Assignments:
- **Presentation #11**
- *Anatomy of Orofacial Structures* - Unit IV Head and Neck Anatomy

**#14 Lecture December 10 Tu, 12 Th Lecture: TMJ ANATOMY & FUNCTION Assignments**

**to be completed before the next lecture:**

- **Online Assessment 11 Due (2%)**
- **OPTIONAL: Cumulative Assessment 5% Extra Credit due December 16 midnight** - Online Assessment #12 - posted • Reading Assignments:
- **Presentation #12**
- AFP 47-103 Vol I p. 120-122 3.42-3.50
- *Anatomy of Orofacial Structures* - Unit II Dental Anatomy: 5 Development, Form and Eruption; Unit IV 29 Temporomandibular Joint

**14 Lab: GRADING Maxillary and Mandibular Molars, 16 %; QUIZ: Molars 2%**

READING ASSIGNMENT: RESD 1110 Lab Notes review, AFP v.1 review; *Anatomy of Orofacial Structures* review

**#15 Lecture December 17 Tu, 19 Th FINAL (30%)**

**Final exam will take place during regularly scheduled class time. Final Exam review is posted in Brightspace.**

**Assignments to be completed:**

- **Online Assessment 12 Due (2%)**

**15 Lab: Final Practical examination, one maxillary central incisor and one maxillary or mandibular first molar, 10%; QUIZ: Dentition 2%**

READING ASSIGNMENT: RESD 1110 Lab Notes review, AFP v.1 review; *Anatomy of Orofacial Structures* review

RESD 1110 Syllabus and RESD 1110 Calendar revised in August 2024 by Profs. R. Budny, L. Andreescu, J. Balla, P. Federico, and S. Velez.

Instructors strongly encourage students to ask, post or email questions, make comments, and discuss their own ideas.