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

DEPARTMENT OF
RESTORATIVE DENTISTRY

DEPARTMENT: RESTORATIVE DENTISTRY

COURSE CODE & TITLE: RESD 1212 FIXED PROSTHODONTICS II

RESD 1216 Instructional Team			
Office:	P 409		
Phone:	(718) 260-5137		
Instructor:	Anthony Sena	Norman Russell	Beata Reda-Szywala
Office hours:	M 2:00 – 3:00 T 11:00- 12:00 or by appointment	Wednesday 2:00 – 3:00	Thursday 8:00 – 8:30 11:00 – 11:30
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COURSE DESCRIPTION:

The course is designed to develop the knowledge and skills required to fabricate multi-unit fixed bridge restorations. The topics covered in the course will include: handling, treatment and fabrication of full arch casts and dies, identifying margins, pontic design, trimming and ditching dies, waxing and developing functional occlusion, spruing, investing, burnout, casting, soldering, bridge seating, finishing and polishing.

CLASS HOURS: Lecture: 1 hour per week Laboratory: 6 laboratory hours per week

CREDITS: 3 credits

NUMBER OF WEEKS: 15 Weeks

CURRICULUM LEVEL: Second Semester

PREREQUISITES: RESD 1115

TEXTBOOKS: Anusavice, K., J., Shen, C., H., Rawls, R. (2013). Phillips' science of dental materials. (12th ed.). St. Louis, MI: Elsevier/Sounders

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: Murray, H., Sluder, T. (1989). Fixed restorative techniques (Rev. ed.). Univ. Of North Carolina Press. * on reserve in the library

Neff, P. A., (1999). TMJ occlusion and function (8th ed.). Georgetown University School of Dentistry.
* To purchase P. Neff's book contact the marketing assistant is: Susie Jackson 703.472.5531 sjacksonathome@aol.com.

Brand, R., Isselhard, D. (1994). Anatomy of orofacial structures (5th ed.). St. Louis: C.V. Mosby.

COORDINATOR: ANTHONY SENA, MBA, CDT

WEB REFERENCES: http://www.ada.org/index.asp; http://www.dentaladvisor.com/; http://www.lmtcommunications.com/
http://www.dentalaegis.com/idt; http://www.nadl.org/jdtunbound/archives.htm
Electronic Journal in NYCCT Library. http://library.citytech.cuny.edu/

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 or assignments were done by someone else. 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.

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.

To successfully complete Restorative Dentistry curriculum the students are required to observe course instructor's demonstrations and complete all fabrication tasks under course instructor's supervision. Classes will begin promptly at the scheduled time. Laboratory demonstrations are usually conducted at the beginning of the session and cannot be redone for the convenience of a student who arrives late or is absent. When student is given instructor's permission to leave the class, the student will return to class in a reasonable time.

Students enrolled in RESD course must meet all course requirements as stated in course syllabus in order to pass it. RESD students must complete required assignments, tasks, projects and exams by specified due dates. Failure to submit or complete the assignment, tasks, projects or exam by specified due dates will result in a zero (0) grade and possible failure of the course. It is strongly advised that students are present for all classes during the semester including 30 laboratories and 15 lectures.

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%.
RESD students will participate in the end of semester clean-up of the Restorative Dentistry dental laboratories. The date of final cleanup will be announced in advance. For students who are absent during final clean up, 5% of final grade will be deducted.

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. Failure to satisfactorily complete a repeated RESD course will be considered 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. In addition, each student will be assigned responsibility for maintaining the cleanliness of an area used in common by all members of the class. Also, equipment such as duplicating flasks, articulators or any other equipment issued by the instructor must be returned clean and in good working condition (5% of final grade).
4. RESD students will participate in the end of semester clean-up of the laboratories that will be scheduled in the morning after the last working laboratory class. 5% of final grade will be deducted for students who will not show up for the final clean up

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ONLINE CLASS TECHNOLOGY PREREQUISITES

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

1. You should have access to and be able to use the internet browser such as Internet Explorer, Safari or other.
2. You will need an email account and should be comfortable using it. The college provides an email account to all students.
3. 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 G604)

HELPFUL INFORMATION ON HOW TO ACCESS & NAVIGATE BLACKBOARD:

1. Visit the open student computer lab in the General Building, sixth floor, room G600.
   The phone number for the lab is (718) 254-8565.

2. Refer to Websupport 1 for a "Beginners Guide to BlackBoard." To enter this site:
   1. Access link: http://websupport1.citytech.cuny.edu/websupport1/It/online/students/index.html
      Or
   2. Go to the City Tech Home Page
   3. Click on "Quick Links"
   4. Go to "Helpful Links" and click on "Websupport 1"
   5. Click on "Instructional Technology Tutorials and Handouts"
   6. Scroll down and click "Beginners Guide to Blackboard Course Info"

3. College provides numerous student Blackboard training sessions throughout the semester

4. Use the description of the navigation of the Blackboard site:

ANNOUNCEMENTS - entry point. Announcements tell you everything you might expect to hear at the beginning of a class if we were in a classroom. In our virtual classroom, you have to read the announcements each time you enter the course by logging on. I will be posting notices, assignments, and updates on a daily basis, so please check these announcements at least 2 times a week.

CONTACTS - information about course instructors (i.e. phone, email, office location and so on). Our online classroom is open 24 hours a day, 7 days a week. So if you want to ask the instructor a question, you can email it at any time. If you want to discuss something with the entire class, please write your message in designated Forum on the Discussion Board.

COURSE DOCUMENTS - information provided on the first day of lecture portion of the course (i.e. course syllabus, grading policies, browsers, & software needed for the course).

LABORATORY DOCUMENTS - information provided throughout the laboratory portion of the course (i.e. grading sheets, lab notes, handouts, instructions related to equipment and procedures).

PRESENTATIONS – location of power point presentations, articles, handouts, and videos related to specific lecture topics

VIDEOS – locations of videos related to course content

DISCUSSIONS– location of assignments, questions/comments, replies to questions /comments

ASSESSMENTS – location of each lecture's assessment

EXAMS - location of exam reviews and major exams: Quiz, Midterm & Final

ARTICLES – location of articles related to topics presented throughout the course

BOOKS – location of electronic books available for students use throughout the course

WEB LINKS - links to websites referenced throughout the course (i.e. professionals, associations, publications, companies/manufactures/suppliers)

TOOLS - tools for updating your personal information, creating your own Home Page (on this site), checking your grades, and exchanging word processing files with classmates and instructor via the Digital Drop Box

HELP - tips about how to work online in Blackboard environment and beyond. It will answer all your questions from "how to change your password" to "how will I know what to do in this course" and so on

RESD 1212 LEARNING OUTCOMES:

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

1. **Describe** the clinical and laboratory procedures for constructing fixed prostheses utilizing hands-on procedures.
2. **Identify** proper terminology used during fabrication of fixed prostheses.
3. **Identify** various margins and preparation designs, and their applications.
4. **Handle and treat** impressions as related to blood borne infectious diseases.
5. **Troubleshoot** impressions failures.
6. **Fabricate** fixed multi-unit prostheses in accordance with a given prescription/e-prescription.
7. **Describe** the process and fabricate provisional restoration/s.
8. **Construct** master casts with removable stone dies mounted in proper occlusal relationship on the semi-adjustable articulator.
9. **Identify** failures in model construction and articulation.
10. **Identify** sequence of steps and **describe** their importance in the process of fabricating CAD designed dental prostheses.
11. **Wax and carve** anterior and posterior crowns, copings, veneer crowns, pontic patterns, and fixed bridge substructure.
12. **Name and describe** types of pontics and bridges, and **cite** the rationale for their use.
13. **Restore** tooth form, margins and contact areas to the prepared teeth.
14. **Reproduce** the occlusal surfaces so that cusps, grooves, ridges, etc. are properly formed and function.
15. **Sprue, invest, burnout, cast, fit and finish** individual casting and multiunit substructure for fixed prostheses.
16. **Identify** the casting failures associated with improper spruing, investing, burnout and casting procedures.
17. **Align, splint, invest and solder** the bridge parts. **Identify** soldering failures.
18. **Utilize** magnification while trimming the dies and marking margins, checking wax patterns and final restorations.
19. **List** the materials in order of use to finish and polish a fixed bridge framework.
20. **Apply and process, finish and polish** composite resin to copings and veneered fixed bridgework.
21. **Identify** materials, equipment and measures used in construction of fixed prostheses.

RESD 1212 ASSESSMENT:

To evaluate student achievement of the learning outcomes the professor will do the following:

1. **Review** students creative process and ability to follow instructions into the laboratory work by means of frequent lab project evaluations.
2. **Conduct** multiple exams, assessments and assignments.
3. **Evaluate** exams/assessments and projects with emphasis on student's ability to communicate and use professional vocabulary
4. **Utilize** exams/assessments and class participation to develop the skills and to integrate systems into dental curriculum

RESD 1212 GENERAL EDUCATION STUDENT LEARNING OUTCOMES:

1. **Skill**: develop tools needed for communication, inquiry, analysis, and productive work:
   - Inquiry/Analysis: continue deriving the meaning from experiences, as well as gather information from observations; describe and solve problems; employ logical thinking;
2. **Integration**: work productively within and across disciplines:
   - Systems: understand and navigate systems (Blackboard, CAD)

RESD 1212 FIXED PROSTHODONTICS II - EVALUATION AND GRADING:

EVALUATION AND GRADING:

Laboratory:	Laboratory Projects			
	Project 1	6%	Project 7	7%
	Project 2	3%	Project 8	6%
	Project 3	1%	Project 9	2%
	Project 4	9%	Project 10	9%
	Project 5	3%	Project 11	3%
	Project 6	5%		
	Adherence to health, Safety and clean-up procedures			6%
	Total Lab			**60%**
Lecture:	Quiz			6%
	Midterm Exam			12%
	Final Exam			12%
	Homework, assessments			10%
	Total Lecture			**40%**

* TOTAL - **FINAL GRADE 100%**

* Final grade will be the weighted average of grades in lecture and laboratory portions of the course.

* NOTE: THE STUDENT MUST ACHIEVE A MINIMUM PASSING GRADE OF AT LEAST 70% IN LECTURE AS WELL AS IN LABORATORY IN ORDER TO PASS THE COURSE.

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

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

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RESD 1212 FIXED PROSTHODONTICS II LECTURE: ASSESSMENT CRITERIA

#	Lecture Dates Thursday	In-Class/Online Lecture Assignments	Location of Class materials; Due date
1	2/1	**Lecture: Presentations and assignments:** • **Presentation: Infection Control** • **Presentation #1 Fixed Prosthodontics II** • **Presentation #1D Post and Core Module** • **Presentation #1C Implants** **Reading assignments:** • **AFP vol. I pages 28-38** • **AFP vol. II pages 14-39, 45-48; 114-115, 196-197** • **Phillips' Science of Dental Materials p. 151-183**	**Blackboard: PRESENTATIONS & ASSESSMENTS** **Air Force Pamphlet** **Assessment 1 due by the next lecture**
2	2/8	**Lecture: Presentation's assignments:** • **Presentation #2A 3M Impression Trouble shooting Guide** • **Presentation #2 Models & Dies** **Lecture: Reading assignments:** • **AFP vol. II pages 24, 39-44** • **Phillips' Science of Dental Materials p. 183-194** **ASSESSMENT 1**	**Blackboard: PRESENTATIONS & ASSESSMENTS** **Air Force Pamphlet**
3	2/15	**Lecture: Presentation's assignments:** • **Presentation #1A Diagnostic Wax Up Procedure** • **Presentation #1B Provisional Restorations** **Lecture: Reading assignments:** • **Phillips' Science of Dental Materials p. 474-498** **ASSESSMENT 2**	**Blackboard: PRESENTATIONS & ASSESSMENTS** **Assessment 1 due; Assessment 2 due by the next lecture**
4	2/22	**Presentation's assignments:** • **Presentation #3 Articulation** • **Presentation #4 Tooth Morphology** • **Presentation #4A Tooth Sensitivity, Periodontal Disease** **Reading assignments:** • **AFP vol. I pages 28-38, 123-153, 173-180** **ASSESSMENT 3**	**Blackboard: PRESENTATIONS & ASSESSMENTS** **Air Force Pamphlet** **Assessment 2 due; Assessment 3 due by the next lecture**
5	3/1	**Lecture: Presentation's assignments:** • **Presentation #5 Occlusion** • **Presentation #6 Waxing** **Lecture: Reading assignments:** • **AFP vol. I pages 94-95, 120, 154-166, 171-172** • **AFP vol. II pages 48-64, 64-78** • **P. Neff *"TMJ Occlusion & Function"*: pages 8-22, 43-60** • **Phillips' Science of Dental Materials p. 196-200** **Lecture: Quiz Review** **ASSESSMENT 4**	**Blackboard: PRESENTATIONS & ASSESSMENTS, EXAMS** **Air Force Pamphlet** **Assessment 3 due; Assessment 4 due by the next lecture**
6	3/8	**Lecture: 15% Quiz**	**Blackboard: EXAMS**

7	**3/15**	**Lecture: Presentation's assignments:** • **Presentation #6A Hader Bar** • **Presentation #7 Spruing** • **Presentation #7A Spruing Guide** **Lecture: Reading assignments:** • **AFP vol. II pages 71-81** • **Phillip's Science of Dental Materials p. 213-214** **ASSESSMENT 5**	**Blackboard: PRESENTATIONS & ASSESSMENTS** **Air Force Pamphlet** **Assessment 4 due; Assessment 5 due by the next lecture**
8	**3/22**	**Lecture: Presentation's assignments:** • **Presentation #8 Investing** • **Presentation #9 Burn out & Casting, Finishing & Polishing** **Lecture: Reading assignments:** • **AFP vol. II pages 80-91, 160-163** • **Phillips' Science of Dental Materials p. 200-230** **ASSESSMENT 6**	**Blackboard: PRESENTATIONS & ASSESSMENTS** **Air Force Pamphlet** **Assessment 5 due; Assessment 6 due by the next lecture**
9	**3/29**	**Lecture: Midterm Review** **Presentation's assignments:** • **Presentation #10 Soldering** **Lecture: Reading assignments:** • **AFP vol. II pages 105-113** **ASSESSMENT 7**	**Blackboard: PRESENTATIONS & ASSESSMENTS, EXAMS** **Air Force Pamphlet** **Assessment 6 due; Assessment 7 due by the next lecture**
10	**4/12**	**Lecture: 30% Midterm Exam**	**Blackboard: EXAMS**
11	**4/19**	**Lecture: Midterm Results Review** **Lecture: Presentation's assignments:** • **Presentation #11 Composite Resins** **Lecture: Reading assignments:** • **AFP vol. II pages 188-194** • **Phillips' Science of Dental Materials p. 231-253** **ASSESSMENT 8**	**Blackboard: PRESENTATIONS & ASSESSMENTS** **Air Force Pamphlet** **Assessment 7 due; Assessment 8 due by the next lecture**
12	**4/26**	**Lecture: Presentation's assignments:** • **Presentation #11 Composite Resins** **Lecture: Reading assignments:** • **AFP vol. II pages 188-194** **ASSESSMENT 9**	**Blackboard: PRESENTATIONS & ASSESSMENTS** **Air Force Pamphlet Assessment 8 due; Assessment 9 due by the next lecture**
13	**5/3**	**Lecture: Scanning & CAD Designs** **ASSESSMENT 10**	**Assessment 9 due; Assessment 10 due by the next lecture**
14	**5/10**	**Lecture: Final Review**	**Blackboard: EXAMS & PRESENTATIONS** **Air Force Pamphlet Assessment 10 due**
15	**5/17**	**Lecture: 30% Final Exam**	**Blackboard: EXAMS**
	5/24	**FINAL LAB CLEAN UP**	