

Dental Hygiene Care II

Lamar Institute of
Technology

DHYG 2331

Course Syllabus

Fall

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MPC 206



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LECTURE SCHEDULE

Topic		Assignments
Week 1	Introduction to DHYG 2331 Powered Instrumentation	Wilkins Chapter 41 Pgs. 715-724
	Continue Powered Instrumentation	Periodontal Instrumentation Book Module 26
SEPTEMBER		
Week 2	Continue Powered Instrumentation	
	E-Portfolio Journal Entry #1 Due	
Week 3	Advanced Instrumentation & Root Debridement	Wilkins Chapter 39 Pgs. 668-669 708-713 Periodontal Instrumentation Book Module 19 & 21 Watch Area Specific Videos (2) Instrumentation Book's resource
	Continue Advanced Instrumentation & Root Debridement Air Polishing	Watch Advanced Fulcrum Videos on Maxillary and Mandibular Arch *Ultrasonic Practice in the Clinic 1:00pm – 5:00 pm- EVERYONE! Wilkins Chapter 45 Pgs. 793-796
Week 4	EXAM 1	*Gracey practice day in clinic 12:30 – 3:30 – EVERYONE!
	Local Anesthesia	Wilkins Chapter 38 Pgs. 642-661
Week 5	Continue Local Anesthesia	
OCTOBER		
	Continue Local Anesthesia	Research Project Corrections Due
Week 6	Antimicrobials/Chemotherapeutic Agents	Wilkins Chapter 41 Pgs. 730-734
	Continue Antimicrobials/Chemotherapeutic Agents	
Week 7	EXAM 2	
	Nitrous Oxide	Wilkins Chapter 38 Pgs. 633-641
Week 8	Nitrous Oxide	
	Nitrous Oxide	
Week 9	EXAM 3	

	E-Portfolio Journal Entry #2 Due	
Week 10	Alcoholic Patient/Oral Surgery	Wilkins Chapter 65 Pgs.1086-1093

NOVEMBER		
	Patients with a Disability/Physical/Sensory Impaired Patient	Wilkins Chapters 57 & 59 & 60
Week 11	Continue Physical/Sensory Impaired Patient	
	Continue Physical/Sensory Impaired Patient	
Week 12	The Patient with a Seizure Disorder & Dental Hygiene Care in Alternative Settings	Wilkins Chapters 63 & 58
	Patients with a Mental Health Disorder & Patients with a Neurodevelopment Disorder	Wilkins Chapters 61 & 64
Week 13	Continue Patients with a Mental Health Disorder & Patients with a Neurodevelopment Disorder	
	EXAM 4	
Week 14	Medically Compromised Patient (presentations)	Congestive/Ischemic/Myocardial Infarction & Head/Neck Cancer
	Medically Compromised Patient (presentations)	Respiratory Disease & Blood Disorders & Cleft Lip/Palate
DECEMBER		
Week 15	Medically Compromised Patient (presentations)	Congenital/Mitral valve prolapse & Family abuse/neglect & Substance-related Disorders
	Medically Compromised Patient (presentation)	Hypertension/Hypertensive heart disease & Alzheimer's Disease & Thyroid Disease
TBA	Comprehensive Final	

COURSE DESCRIPTION

Dental hygiene care for the medically or dentally compromised patient with emphasis on advanced instrumentation techniques.

PREREQUISITE

DHYG 1301, 1431, 1304, 1227, 1219, 1235, 2301, 1207, & 1260.

CO-REQUISITE

DHYG 1311, 1339 & 2261.

COURSE GOALS

The student will design advanced instrumentation techniques appropriate to various patient needs and explain modifications in the treatment of the medically and dentally compromised patient.

Specifically the student will be able to:

- Discuss modifications in dental hygiene care for patients with physical/sensory impaired patients, patients with a neurodevelopmental disorder, alcoholic patients, patients who are recovering from oral surgery, homebound patients, patients with heart disease, hypertension, blood disorders, thyroid disease, pulmonary disease, respiratory disease, family abuse/neglect, seizure disorder, mental health disorder, head and neck cancer, and Alzheimer's disease.
- Describe principles, indications and contraindications of ultrasonic scaling devices.
- Identify and describe appropriate instruments for effective calculus removal.
- Describe the physical characteristics, types and etiology of the intellectually and developmentally impaired patient.
- Discuss the rationale and indications for performing root debridement procedures, describe appropriate stroke sequence and discuss the visual and tactile indications of a properly root planed tooth.
- Identify and describe the landmarks of the head and neck, rationale for selection of anesthetics, injection sites and basic theory of local anesthesia.
- Describe the use of nitrous oxide and oxygen conscious sedation in the dental office.
- Describe the anti-microbials/chemical plaque control agents and their actions.
- Describe principles, indications and contraindications of air-polishers.
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CREDIT HOURS

Course Credit- 3 hours
Class hours- 3 hours

CLASS MEETING TIME

9:25 am – 10:40 am Monday and Wednesday
Room 112 Multi-purpose Center

INSTRUCTOR

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Students should discuss questions by appointment or as the instructor is available.

PROGRAM POLICIES

Absenteeism

In order to ensure the students in the dental hygiene program achieve the necessary didactic and clinical competencies outlined in the curriculum, it is necessary that the student complete all assigned lecture classes, clinical and laboratory hours. It is the responsibility of the student to attend class, clinic or lab. The instructor expects each student to be present at each session.

It is expected that students will appear to take their exams at the regularly scheduled examination time. Make-up examinations will be given **only** if the absence is due to illness (confirmed by a physicians' excuse), a death in the immediate family, or at the discretion of the instructor.

If students are unable to attend lecture class, clinic or lab, it is **mandatory that you call the appropriate instructor prior to the scheduled class, clinic or lab time**. The student is responsible for all material missed at the time of absence. Extenuating circumstances will be taken into account. Extenuating circumstances might include but are not limited to: funeral of immediate family member, maternity, hospitalization, etc. If the student has surgery, a debilitating injury, or an extended illness, a doctor's release will be required before returning to clinic.

a. **Fall/Spring Semesters:**

Dental hygiene students will be allowed **two excused absences** in any lecture, clinic or lab. Absences must be accompanied by a written excuse on the next class day. In the event that a student misses class, clinic or lab beyond the allowed absences, the following policy will be enforced:

2 absences = verbal warning

Beginning with the 3 absence, **2 points** will be deducted from the final course grade for each absence thereafter.

b. **Summer Sessions:**

Dental hygiene students will be allowed **one excused absence** in any lecture, clinic or lab. Absences must be accompanied by a written excuse on the next class day. In the event that a student misses class, clinic or lab beyond the allowed absences, the following policy will be enforced:

1 absence = verbal warning
Beginning with the 2nd absence, **2 points** will be deducted from the final course grade for each absence thereafter.

Tardiness

Tardiness is disruptive to the instructor and the students in the classroom. It is expected that students will arrive on time for class, clinic or lab, and remain until dismissed by the instructor. If tardiness becomes an issue, the following policy will be enforced:

Tardy 1 time = verbal warning

Tardy 2 times is considered an absence.

Students should plan on attending classes, labs and clinic sessions as assigned throughout the semester. Family outings, vacations and personal business should be scheduled when school is not in session and will not be considered excuses for missing assignments, examinations, classes, labs or clinic time.

Cell Phones

All cell phones must be turned off and put away. Text messaging during class time will not be tolerated. Text messaging during an exam will be considered academic dishonesty. The exam will be considered over and the student will receive a zero for the exam.

Leaving Class during Lecture

You should be prepared to remain in class for the entire class period. Any personal business should be taken care of prior to or after class. If a medical problem exists or an emergency occurs please inform the instructor.

EXAMINATION POLICY

Students are expected to complete examinations as scheduled. Make-up examinations will be given only if the absence is due to illness (confirmed by a physician's excuse), a death in the immediate family or at the discretion of the instructor. All make-up examinations must be taken within two weeks following the original exam date. All examinations must be returned to the instructor to be kept on file. Students may have access to the examinations by appointment during the instructor's office hours. Exams may be reviewed until the following exam date. Students may not wear smart watches, scarves, hats during testing. All personal belongings, including cell phones, must be stored at the front of the classroom. Cell phones must be silenced during examinations.

Please refer to the student handbook for a comprehensive listing of the program policies.

Faculty has the authority to modify the above policies if unusual circumstances mandate a change.

Technical Requirements (for Blackboard)

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at: https://help.blackboard.com/en-us/Learn/9.1_2014_04/Student/015_Browser_Support/015_Browser_Support_Policy. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities.

If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building. You may also visit the online resource at <http://www.lit.edu/depts/stuserv/special/defaults.aspx>

Student Code of Conduct Statement

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu or obtained in print upon request at the Student Services Office. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

TEACHING METHODS

- Lecture by instructor
- Demonstration by instructor
- Class discussion
- Instrumentation videos
- Media assignments

REQUIRED TEXTS

Nield-Gehrig, Fundamentals of Periodontal Instrumentation & Advanced Root Instrumentation, 8th edition, Lippincott, Williams, & Wilkins, 2017. ISBN: 9781496320209.

Wilkins, E., Clinical Practice of the Dental Hygienist, 12th edition, Lippincott, Williams, & Wilkins, 2017. ISBN: 978-1-4511-9311-4.

REFERENCES AND SUGGESTED TEXTS

- Clark & Brunick, Handbook of Nitrous Oxide and Oxygen Sedation, 3rd edition, Elsevier 2008.
- Daniel, Harfst, & Wilder, Mosby's Dental Hygiene Concepts, Cases, and Competencies, 2nd edition, Mosby's 2007.
- Logothetis, D, Local Anesthesia for the Dental Hygienist, Elsevier 2012
- Malamed, S., Handbook of Local Anesthesia, 6th edition, Elsevier, 2013.

COURSE REQUIREMENTS

The student must pass the course with a 75% or more in order to receive credit for DHYG 2331. All course work must be successfully completed by the last class day. Failure to complete course work will result in the grade of "F" being awarded for DHYG 2331 and dismissal from the DH program. Exclusions from this policy will be dealt with on an individual basis by the instructor.

Requirements for this course include four tests, one comprehensive final, Research Project Presentation, Medically Compromised Patient presentation, Blackboard assignments, and class participation. Instructions and evaluation forms for these presentations can be found in Appendix A of this syllabus.

EVALUATION CRITERIA

Grade Distribution

- | | |
|--------------------------------------|-----|
| • Major Tests | 60% |
| • Comprehensive Final | 15% |
| • Research Project Presentation | 15% |
| • Medically Compromised Presentation | 10% |

Grading Scale

- 92-100 = A
- 83-91 = B
- 75-82 = C
- 60-74 = D
- 59-0 = F

CONTENT OUTLINE FOR DHYG 2331

- I. Powered Instrumentation 330 minutes
 - A. Powered Instrument design and function
 - B. Advantages and disadvantages of powered instrumentation
 - C. Mode of action of powered instruments
 - D. Effects of powered instrumentation
 - E. Preparing for powered instrumentation
 - F. Patient selection for powered instrumentation
 - G. Effective instrumentation with a powered instrument
 - H. Infection control and precautionary measures
 - I. Tip wear and replacement
- II. Advanced Instrumentation & Root Debridement 270 minutes
 - A. Advanced Fulcrums
 - B. Define root debridement
 - C. Objectives and benefits of root debridement
 - D. Instrumentation techniques for effective root debridement
 - E. Design, Uses and Effective instrumentation with specialized instruments
 - 1. Site-Specific curets
 - 2. After five curets
 - 3. Mini five curets
 - 4. Diamond-coated instruments
 - 5. Endoscope
 - 4. Hoe
 - 5. File
 - 6. Chisel
- III. Air Polishing 30 minutes
 - A. Uses and preparation of air polishers
 - B. Mode of action and effects of air polishers
 - C. Instrumentation techniques for air polishing
 - D. Precautions and contraindications for using air polishers
- IV. Antimicrobials/Chemotherapeutic Agents 120 minutes
 - A. Actions and substantivity of antimicrobials/chemotherapeutic agents
 - 1. Antibiotics
 - 2. Chlorhexidine
 - 3. Phenolic compounds
 - 4. Sanginarine
 - 5. Oxygenation agents
 - B. Indications and contraindications for use of antimicrobials/chemotherapeutic agents
- V. Local Anesthesia 270 minutes
 - A. Classification of local anesthetics
 - B. Types of oral injections
 - C. Tray set up for injection
 - D. Nerves and structures anesthetized
 - E. Injection sites and needle position
- VI. Nitrous Oxide Sedation 270 minutes
 - A. History of nitrous oxide sedation
 - B. How nitrous oxide works
 - C. Components of a nitrous oxide unit
 - D. Indications and contraindications for nitrous oxide use
 - E. Procedure for administration of nitrous oxide sedation
 - F. Normal vs. abnormal responses to nitrous oxide sedation
 - G. Emergency procedures concerning nitrous oxide sedation

- VII. Special Patients 720 minutes
- A. Indications and contraindications for dental treatment
 - B. Periodontal management of special patients
 - C. Recall intervals for special patients
 - D. Special patients addressed include:
 - 1. Oral surgery patient
 - 2. Patient with alcoholism
 - 3. Cleft lip and palate patient
 - 4. Patients with psychiatric disorder
 - 5. Patients with developmental or behavioral disorder
 - 6. Patients with physical or sensory impairment
 - 7. Patient with epilepsy
 - 8. Homebound, bedridden or long term care facility patient
- VIII. Medically Compromised Patient 360 minutes
- A. Indications and contraindications for dental treatment
 - B. Periodontal management of medically compromised patients
 - C. Recall intervals for medically compromised patients
 - D. Medical conditions addressed include:
 - 1. Ischemic heart failure/Congestive heart failure/Myocardial infarction
 - 2. Congenital heart disease/Mitral valve prolapse
 - 3. Rheumatic heart disease/ Infective endocarditis
 - 4. Hypertensive patient/Hypertensive heart disease
 - 5. Head and neck cancer
 - 6. Blood disorders
 - 7. Respiratory disease
 - 8. Thyroid disease
 - 9. Alzheimer's patients
 - 10. Family abuse and neglect
 - 11. Substance-related disorders

LEARNER OBJECTIVES

Powered Instrumentation

1. Given information about oral conditions and general health status, identify those patients for whom powered instrumentation is or is not an appropriate choice.
2. Describe the advantages and disadvantages of ultrasonic instrumentation.
3. Briefly describe how the powered instrument removes deposits.
4. Identify precautions that must be taken to minimize cross-contamination during powered instrumentation.
5. Identify four important measures for helping the patient cope with water flow.
6. Describe the procedure for preparing an instrument insert for use in an ultrasonic unit.
7. Compare and contrast standard-diameter and slim-diameter instrument tip design.
8. Describe the best sequence and stroke pattern for effective biofilm & calculus removal using powered instrumentation.
9. Describe the length and speed of the stroke used during powered instrument.
10. Contrast powered instrumentation principles with those employed with hand instruments.
11. List three functions of the water lavage in ultrasonic instrumentation.
12. Briefly describe research findings related to effectiveness, tissue response, root smoothness, and safety precautions concerning powered instrumentation.
13. Discuss the differences in the magnetostrictive, piezoelectric and sonic scalers.

Advanced Instrumentation and Root Debridement

1. Given a variety of area-specific curets, identify the design characteristics of each instrument.
2. Name the uses of area-specific curets.
3. Describe how the clinician can use visual clues to select the correct working-end of an area-specific curet on anterior and posterior teeth.
4. Describe characteristics of root morphology that make root instrumentation challenging.
5. Define root debridement.
6. List benefits of root debridement.
7. State the primary objective of root debridement.
8. Compare root debridement to scaling.
9. Identify instruments utilized for root debridement.
10. Describe the technique used and evaluation of root debridement.

Special Instruments

1. Identify the use of diamond-coated instruments
2. Describe an endoscope and its purpose.
3. Identify the use of the hoe.
4. Describe the design of the hoe.
5. Describe principles of instrumentation with the hoe.
6. Identify three contraindications for utilization of the hoe.
7. Identify the use of the file
8. Describe the design of the file.
9. Describe principles of instrumentation with the file.
10. Describe the design of the chisel.
11. Identify three areas in which the chisel is appropriate for use.
12. Describe the application of the chisel for instrumentation.

Air Polishing

1. List the uses of Air polishers.
2. List the contraindications for using air polishers.
3. Describe the mode of action and effects of the air polisher.
4. Discuss instrumentation techniques and precautions.

Chemotherapeutic Plaque Control

1. Compare and contrast the action, substantivity, indication and contraindications of the following chemotherapeutic plaque control agents.
 - Antibiotics
 - Chlorhexidine
 - Phenolic compounds
 - Fluorides
 - Sanguinarine
 - Oxygenation agents

Local Anesthesia

1. Describe the procedure for injection site preparation.
2. Classify local anesthetics.
3. Define block anesthesia.
4. Define infiltration anesthesia.
5. Describe the appropriate tray set-up for injection.
6. Identify the nerve and structures anesthetized and needle position for each injection site.

Nitrous Oxide Sedation

1. Define nitrous oxide and oxygen conscious sedation.
2. List indications for nitrous oxide sedation.
3. Describe the history of nitrous oxide sedation.
4. List benefits of nitrous oxide.
5. Describe the mechanism by which nitrous oxide works.
6. Define conscious according to the ADA.
7. Describe normal responses to nitrous oxide sedation.
8. State properties of nitrous oxide.
9. Give and be able to utilize the equation for determining nitrous oxide concentration.
10. List signs and symptoms in response to nitrous oxide sedation by % of nitrous concentration.
11. State the acceptable concentration range for maximum nitrous oxide sedation.
12. Describe factors affecting the concentration needed for nitrous oxide sedation.
13. Describe the procedure for patient selection and list contraindications.
14. Define hypoxia.
15. Describe the equipment used for nitrous oxide sedation.
16. Describe the procedure for administration of nitrous oxide sedation.

The Oral Surgery/Fractured Jaw Patient

1. Define oral and maxillofacial surgery.
2. Discuss the objectives of dental hygiene care relative to the oral surgery patient.
3. Discuss the personal factors that should be considered when treating the oral surgery patient.
4. Describe pre-operative instructions to be given to the oral surgery patient.
5. Describe causes of a fractured jaw.
6. Describe emergency care for a fractured jaw patient.
7. List classifications of fractures.
8. Describe the healing of a fractured jaw.
9. Discuss dental hygiene care relative to the patient with a fractured jaw.

The Patient with Alcoholism

1. List signs of alcohol abuse.
2. Discuss health hazards related to prolonged alcohol use.
3. Discuss signs of alcohol dependence.
4. Discuss the use of alcohol during pregnancy.
5. Explain withdrawal syndrome.
6. Discuss oral conditions seen in alcoholics.
7. List different treatment options for patients using alcohol.

Cleft Lip and Palate Patient

1. Discuss the classification system for clefts.
2. Discuss problems presented with different classifications of clefts.
3. Discuss types of treatment.
4. Identify psychological effects of patient care.
5. Discuss ways to help a patient obtain treatment.
6. Identify common occurrences found in cleft patients.
7. Discuss programs on oral hygiene education.
8. Discuss the importance of individualized education programs when treating the cleft patient.

Patients with Intellectual, Behavioral, or Developmental Disorders

1. Know the diagnostic criteria for anorexia nervosa and bulimia nervosa.
2. Identify the clinical signs and symptoms of anorexia nervosa and bulimia nervosa.
3. Discuss dental hygiene treatment for patients with anorexia nervosa and patients with bulimia nervosa.
4. Describe dental hygiene care for the patient suffering from schizophrenia, depression, bi-polar disorder, anxiety disorder, and obsessive/compulsive disorder.
5. Define dementia.
6. Define SDAT.
7. List stages and characteristics of Alzheimer's disease.
8. Discuss oral complications related to Alzheimer's disease.
9. Describe dental hygiene care for a patient with Alzheimer's disease.
10. Describe and discuss dental care for mentally ill patients in a long term care facility.

Intellectually or Developmental Disorders

1. Differentiate between mental retardation and mental deficiency.
2. Define mental illness.
3. Identify and describe six types of prenatally caused mental retardation.
4. Describe possible etiologies of natal mental retardation.
5. Define asphyxia and anoxia.
6. List examples of conditions which could cause postnatal mental retardation.
7. Describe oral characteristics of the retarded patient.
8. Describe the Downs Syndrome patient.
9. Describe dental treatment procedures for a severely retarded patient.
10. State objectives for care of the less severely retarded patient.
11. Describe an acceptable tooth brushing regimen for the retarded patient.

The Patient with Epilepsy

1. Define epilepsy.
2. List precipitation factors of a seizure that may occur in patients not medicated.
3. Describe types of seizures.
4. Discuss the etiology of epilepsy.

5. Describe treatment and control of epilepsy.
6. Discuss the possible oral manifestations of epilepsy.
7. Discuss the occurrence of the phenytoin induced gingival enlargement.
8. Discuss dental hygiene care for the epileptic patient.
9. Describe emergency care procedures to employ when a seizure occurs.

Homebound, Bedridden or Long Term Care Facility Patient

1. List and discuss the objectives for providing dental hygiene care for these special patients.
2. Describe the preparation that must precede visits to these patients.
3. Discuss the appropriate patient approach when dealing with the chronically ill person.
4. Describe modification in technique and procedures that may be necessary when providing dental hygiene care for these patients.
5. List and discuss the objectives for providing care for the helpless or unconscious patient.
6. Describe routine mouth cleansing procedures for the helpless or unconscious patient.

Physical and Sensory Impaired Patient

1. Define paralysis.
2. Define the types of paralysis.
3. Define the characteristics and secondary complications which may occur in spinal cord injuries.
4. Describe the dental hygiene care for patients with spinal cord injuries.
5. Describe Myelomeningocile including types of deformities, physical characteristics, medical treatment and dental hygiene treatment.
6. Describe cerebrovascular accidents including etiologic factors, occurrence, signs and symptoms, medical treatment and dental hygiene care.
7. Describe types of Muscular Dystrophies including occurrence, age, characteristics, prognosis, medical treatment and dental hygiene care.
8. Define Myasthenia Gravis including occurrence signs and symptoms, medical treatment and dental hygiene care.
9. Define Multiple Sclerosis including occurrence, characteristics, medical treatment and dental hygiene care.
10. Define Cerebral Palsy including occurrence, types and characteristics, medical treatment, characteristics and dental hygiene care.
11. Describe Bell's Palsy including occurrence, characteristics, medical treatment and dental hygiene care.
12. Describe Parkinson's disease including occurrence characteristics, medical treatment and dental hygiene care.
13. Describe arthritis including occurrence symptoms medical treatment and dental hygiene care.
14. Define Scleroderma including occurrence, characteristics and dental hygiene care.
15. Discuss visual impairment including causes, personal factors and dental hygiene care.
16. Discuss hearing impairment including causes, characteristics and dental hygiene care.

Medically Compromised Patient

Students will discuss cases of medically compromised patients to provide significance and management of medical problems in the dental office.

The student will emphasize:

1. The periodontal management of these patients.

2. Indications and contraindications for dental treatment.
3. Identify patients who are taking drugs for systemic diseases.

Cases to be addressed include:

- Ischemic heart failure/Congestive heart failure/Myocardial infarction
- Congenital heart disease/Mitral valve prolapse
- Rheumatic heart disease/ Infective endocarditis
- Hypertensive patient/Hypertensive heart disease
- Blood disorders
- Respiratory disease
- Thyroid disease
- Alzheimer's patients
- Family abuse and neglect
- Substance-related disorders
- Head and neck cancer

Grade Computation Sheet

Test Grades:

1. _____
2. _____
3. _____
4. _____

Test Average: _____
(Total 4 exams and divide by 4 for
average)

Test average:	_____	X .60=	_____
Research Project Presentation:	_____	X .15=	_____
Medically Compromised Presentation:	_____	X .10=	_____
Final Exam Grade:	_____	X .15=	_____

Total of above: _____

Final Grade: _____