# NEW YORK CITY COLLEGE OF TECHNOLOGY DEPARTMENT OF

**THE CITY UNIVERSITY OF NEW YORK RESTORATIVE DENTISTRY**

DEPARTMENT: RESTORATIVE DENTISTRY

COURSE CODE: RESD-1110

COURSE TITLE: TOOTH MORPHOLOGY

COURSE DESCRIPTION: This course is designed to provide the

student with a theoretical and practical

study of dentition. Included is a

detailed study of tooth development,

form, structure and function; sculpting

the crowns of the maxillary and mandibular

teeth are anatomically carved in ivory wax.

Tooth drawings to scale will also be stressed.

CLASS HOURS & CREDITS: 2 laboratory sessions; 1 lecture hour

per week; 3 credits.

NUMBER OF WEEKS: 15 Weeks.

CURRICULUM LEVEL: First semester.

PREREQUISITE: CUNY Certification in reading, writing and math.

TEXTBOOKS: Anatomy of Orofacial Structures,

Brand & Isselhard, C.V. Mosby Co.,

St. Louis, Mo. Seventh Edition

REFERENCE: Dental Anatomy, Physiology and

Occlusion, R.C. Wheeler, W.B. Saunders

& Co., Phila., Pa. Sixth Edition

Air Force Manual (afpam 47-103)

AUDIO/VISUAL TECHNICAL Wax-up Slides - Library

TAPES:

COURSE REQUIREMENTS: Standard college and department

attendance and grade regulations

OUTCOMES ASSESSMENT: Laboratory: Laboratory Projects - 60%

Lecture - 40%

A = 93-100%

1. = 90-92.9%

B+ = 87-89.9%

B = 83-86.9%

1. = 80-82.9%

C+ = 77-79.9%

C = 70-76.9%

D = 60-69.9%

F = 59.9% and below

ATTENDANCE POLICY: \*Any student who has exceeded the 10% absence/lateness

policy will receive a grade reduction for that portion of the

course (lecture & or lab).

ACADEMIC INTEGRITY: New York City College of Technology Policy on 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. Accordingly, academic dishonesty is prohibited in The City University of New York and at New York City College of Technology and is punishable by penalties, including failing grades, suspension, and expulsion. The complete text of the College policy on Academic Integrity may be found in the catalog.

COORDINATOR: Revised January 2010, Phil Russo, C.D.T.,

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NEW YORK CITY COLLEGE OF TECHNOLOGY DEPARTMENT OF

THE CITY UNIVERSITY OF NEW YORK RESTORATIVE DENTISTRY

RESD 1110 TOOTH MORPHOLOGY

EVALUATION SHEET

OUTCOMES ASSESSMENT

LABORATORY EXERCISES (60% of the total grade)

Tooth Drawings (20% of final grade) \_\_\_\_\_\_\_\_\_\_\_

Tooth carvings, ten individual

teeth (60 % of final grade) \_\_\_\_\_\_\_\_\_\_\_

Final examination

(tooth carving) (20% of final grade) \_\_\_\_\_\_\_\_\_\_\_

**Tooth Carving - Eleven individual teeth:**

Incisors

Tooth alignment (20 pts)

Cervical line (length and fit) (10 pts)

Location of the contact areas (20 pts)

Height of contour (location) (20 pts)

Embrasures (location and size) (20 pts)

Correct placement of the cingulum,

line angles and marginal ridges (10 pts)

Canines:

Tooth alignment (20 pts)

Cervical line (length and fit) (10 pts)

Location of the contact areas (20 pts)

Height of contour (location) (20 pts)

Embrasure (location and size) (20 pts)

Correct placement of line

angles tip of the cusp,

marginal, buccal, and

lingual ridges (10 pts)

Premolars and molars:

Tooth alignment (20 pts)

Margin (length and fit) (10 pts)

Location of the contact areas (20 pts)

Height of contour (location) (20 pts)

Embrasures (location and size) (20 pts)

Correct placement of the buccal

and lingual cusps, line angle

ridges, and developmental grooves (10 pts)

LECTURE EXAMS (40% of the total grade)

LECTURE SESSIONS

Quiz 20%

Midterm 40%

Final 40%

100%

Final grade will be an average of grades in lecture and laboratory.

A passing grade of 70% in lecture as well as laboratory must be

achieved.

GOALS AND OBJECTIVES

FOR RESD 1110: Upon successful completion of the course

each student will be able to:

1. Recognize each tooth form and locate

each in its correct position in the oral cavity.

2. Describe the composition of each tooth tissue.

3. Describe the geometric concept of crown outline.

4. Describe the composition and function

of the periodontium.

5. Describe the salient features of

occlusal anatomy of the posterior teeth.

6. Carve selected maxillary and

mandibular teeth with anatomical landmarks.

7. Describe the anatomy and physiology

of the temporo-mandibular joint.

8. Draw and label the anatomical

landmarks of each tooth.

NEW YORK CITY COLLEGE OF TECHNOLOGY DEPARTMENT OF

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COURSE OUTLINE

RESD 1110 TOOTH MORPHOLOGY - LABORATORY SESSIONS

1. Introduction and technique for pouring maxillary and mandibular stone models and dies.

2. Continuation of model pouring.

3. Continuation of model pouring.

4. Continuation of model pouring.

5. Continuation of model pouring.

6. Waxing of maxillary central.

7. Continue and complete.

8. Waxing of maxillary cuspid.

9. Continue and complete.

10. Waxing of mandibular lateral.

11. Continue and complete.

12. Waxing of mandibular cuspid.

13. Waxing of maxillary 1st premolar.

14. Continue and complete.

15. Waxing of mandibular 1st premolar.

16. Continue and complete.

17. Waxing of mandibular 2nd premolar.

18. Continue and complete.

19. Waxing of maxillary 1st molar.

20. Continue.

21. Continue and complete.

22. Waxing of maxillary 2nd premolar.

23. Continue and complete.

24. Waxing of mandibular 1st molar.

25. Continue.

26. Continue and complete.

27. Waxing of mandibular second molar.

28. Continue.

29. Continue and complete.

30. Practical examination on mandibular teeth and maxillary teeth.

\*COMPLETED MAXILLARY AND MANDIBULAR WAX-UPS DUE FOR

EVALUATION AT THE END OF XXVIII SESSION

RESD 1110 TOOTH MORPHOLOGY - COURSE OUTLINE - LECTURE

I. INTRODUCTION TO TOOTH MORPHOLOGY - SIX LECTURE HOURS -

A. The Tooth: Functions and Terms, Chapt. 21, pp. 244-261.

B. Fundamental and Preventive Curvatures - Brand & Isselhard, Chapt. 22, pp. 264-274.

C. Dentition and Coding System of Teeth - Chapt. 23, pp. 276-285

1. Palmer system (Quadrant).

2. Verbal/written form.

3. Universal system (1-32).

D. Incisors and Canines - Brand & Isselhard, Chapt. 29, 30, 31, pp. 351-399.

\* QUIZ I DURING 5TH LECTURE HOUR

II. DEVELOPMENT, FORM AND ERUPTION - ONE LECTURE HOUR

A. Brand & Isselhard, Chapt. 24, pp. 286-296.

B. Premolars - Brand & Isselhard, Chapt. 32, pp. 400-425.

\* MIDTERM EXAMINATION DURING 8TH LECTURE PERIOD - ONE HOUR

III. TOOTH FORM AND FUNCTION - THREE LECTURE HOURS

A. Supporting Structures - Brand & Isselhard, Chapt. 27, pp. 333-341.

B. Occlusion - Ibid, Chapt. 25, pp. 298-317.

C. Molars - Brand & Isselhard, Chapt. 33, pp. 426-461.

IV. DEVELOPMENT OF TEETH - Two Lecture hour

A. Clinical Consideration - Brand & Isselhard, Chapt. 28, pp. 342-350.

V. TEMPOROMANDIBULAR JOINT - Two Lecture hour - Brand & Isselhard,

Chapt. 14, pp. 174-180.

1. Structures.

2. Movements.

\* FINAL EXAMINATION - DURING FIFTEENTH LECTURE PERIOD.

INSTRUCTIONAL OBJECTIVES: TOOTH MORPHOLOGY - RESD 1110 LECTURE

I. INTRODUCTION TO TOOTH MORPHOLOGY - Six lecture hours.

A. CONDITIONS: Given a series of lectures and slide projector presentations.

B. PERFORMANCE: The student should be able to:

1. Identify tooth forms.

2. Identify placement of each tooth in the oral cavity.

3. Distinguish maxillary teeth from mandibular teeth.

4. Explain the relationship between tooth form and function.

5. Explain the Universal and Palmer methods of coding teeth.

6. Describe for each tooth the fundamental curvatures and their

function.

C. EXTENT & CRITERIA: With at least 70% accuracy at the end of six lectures.

II. TOOTH STRUCTURE AND TISSUE - ONE LECTURE HOUR.

A. CONDITIONS: Given a series of lectures and slide projector presentations.

B. PERFORMANCE: The student should be able to:

1. Describe the composition of each tissue.

2. Identify and locate the various tooth tissues.

3. Define the following terms:

a. dentin.

b. enamel.

c. cementum.

d. pulp.

e. cemento-enamel junction.

f. cervical.

g. anatomical crown.

h. clinical crown.

i. ridges.

j. cingulum.

k. developmental grooves.

l. sulcus.

m. fossa.

n. fissure.

o. pit.

p. cusps.

q. labial/lingual, surfaces-characteristics.

r. mesial/distal, surfaces-characteristics.

s. contact areas.

t. embrasure areas.

u. alveolus.

4. Cite and locate the anatomical landmarks of anterior teeth and premolars.

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

\* MIDTERM EXAMINATION - During the Eighth lecture hour - One Lecture Hour.

III. TOOTH FORM AND FUNCTION - Three lecture hours.

A. CONDITIONS: Given a series of lectures and slide projector presentations.

B. PERFORMANCE: The student should be able to:

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.

4. Explain the role of the technician in preserving or restoring all contours.

5. Cite and locate the anatomical landmarks on maxillary and

mandibular molars.

6. List and describe the structure and movements of the periodontium.

C. EXTENT & CRITERIA: With at least 70% accuracy at the end of three lecture hours.

IV. DEVELOPMENT OF TEETH - TWO LECTURE HOUR

ABNORMALITIES, ANOMALIES & GENETICS.

A. CONDITIONS: Given a series of lectures and slide projector presentations.

B. 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 which arise from loss of teeth.

5. Describe abnomalies and abnormalities in human dentition

and how the dentist may elect to solve them.

6. Describe the technicians role in the dentist's treatment of

such problems.

C. EXTENT & CRITERIA: With at least 70% accuracy at the end of two lecture hour.

V. TEMPOROMANDIBULAR JOINT - TWO LECTURE HOUR.

A. CONDITIONS: Given a series of lectures and slide projector presentations.

B. PERFORMANCE: The student should be able to:

1. Diagram a sagital section of the temporomandibular joint.

2. Describe the two movements of the temporomandibular joint as

it opens and to know where these movements take place.

C. EXTENT & CRITERIA: With at least 70% accuracy at the end of two lecture hour.

\* FINAL EXAMINATION - DURING FOURTEENTH LECTURE PERIOD.

INSTRUCTIONAL OBJECTIVES: TOOTH MORPHOLOGY - RESD 1110 LABORATORY

In all wax-added laboratory sessions the student will be required to provide:

1. #7 wax spatula.

2. Bunsen burner.

3. Roach carver.

4. Murphy knife.

5. flexible m.m. ruler.

I - III. POURING OF MAXILLARY AND MANDIBULAR MODELS AND DIES - THREE

LABORATORY SESSIONS.

A. CONDITIONS: Given a demonstration on pouring bubble free stone models and stone dies.

B. PERFORMANCE: The student should be able to pour and trim a maxillary and mandibular cast; and the corresponding stone dies.

C. EXTENT & CRITERIA: The following points will be evaluated in the models and dies:

1. dense, bubble free models.

2. dense, bubble free dies.

3. clean and free of debris.

With at least 70% accuracy at the end of three sessions.

IV. MAXILLARY CENTRAL INCISOR - TWO LABORATORY SESSIONS.

A. CONDITIONS: Given a demonstration on waxing a maxillary central incisor.

B. PERFORMANCE: The student should be able to draw and wax a maxillary central

incisor and place and identify its respective anatomical landmarks.

Through homework assignments and repetitive practice the student should also be able to demonstrate his skill in drawing and waxing the maxillary central incisor.

C. EXTENT & CRITERIA: The following points will be evaluated

in drawing and waxing the maxillary central incisor:

1. The tooth drawn to scale and the anatomical landmarks properly located on the drawing.

2. Emphasis on the widest labial lingual diameter.

With at least 70% accuracy at the end of two sessions.

V. MAXILLARY CANINE - Two laboratory sessions.

A. CONDITIONS: Given a demonstration on waxing a maxillary canine.

B. PERFORMANCE: The student should be able to draw and wax a maxillary canine and

place and identify its respective anatomical landmarks. Through home-

work assignments and repetitive practice the student should also be

able to demonstrate his skill in drawing and waxing the maxillary left canine.

C. EXTENT & CRITERIA: The following points will be evaluated

in drawing and waxing the maxillary canine:

1. The tooth drawn to scale and the anatomical landmarks properly located on the drawing.

2. Emphasis on the widest labial lingual diameter.

3. Mesio-distal diameter of crown cervical third.

4. Incisal third, lingual anatomy and marginal ridges properly placed.

With at least 70% accuracy at the end of two sessions.

VI. MANDIBULAR LATERAL INCISOR - Two laboratory sessions.

A. CONDITIONS: Given a demonstration on waxing a mandibular lateral incisor.

B. PERFORMANCE: The student should be able to draw and wax-up a mandibular lateral incisor and place and identify its respective anatomical landmarks. Through homework assignments and

repetitive practice the student should also be able to demonstrate

his skill in drawing and waxing the mandibular left lateral incisor.

C. EXTENT & CRITERIA: The following points will be evaluated

in drawing and waxing the mandibular lateral incisor:

1. The tooth drawn to scale and the anatomical landmarks properly located on the drawing.

2. Emphasis on the widest labial lingual diameter.

3. Mesio-distal diameter of crown and cervical third.

4. Incisal third, cingulum, and marginal ridges properly placed.

With at least 70% accuracy at the end of two sessions.

VII. MANDIBULAR CUSPID - One laboratory session.

A. CONDITIONS: Given a demonstration on waxing a mandibular cuspid.

B. PERFORMANCE: The student should be able to draw and wax a mandibular cuspid

and place and identify its respective anatomical landmarks. Through homework assignments and repetitive practice the student should be able to demonstrate his skill in drawing

and waxing the mandibular cuspid.

C. EXTENT & CRITERIA: The following points will be evaluated in drawing and waxing the mandibular cuspid:

1. The tooth drawn to scale and the anatomical landmarks properly located on the drawing.

2. Emphasis on the widest labial lingual diameter.

3. Mesio-distal diameter of crown and cervical third.

4. Incisal third, cingulum, and

marginal ridges properly placed.

With at least 70% accuracy at the end of one session.

VIII. MAXILLARY 1ST PREMOLAR - Two laboratory sessions.

A. CONDITIONS: Given a demonstration on waxing a maxillary 1st premolar.

B. PERFORMANCE: The student should be able to draw and wax-up a maxillary left first premolar and place and identify its respective anatomical landmarks. Through homework assignments and repetitive practice the student should be able to demonstrate his

skill in drawing and waxing the maxillary 1st premolar.

C. EXTENT & CRITERIA: The following points will be evaluated

in drawing and waxing the maxillary 1st premolar:

1. The tooth drawn to scale and the anatomical landmarks

properly located on the drawing.

2. Emphasis on the widest labial lingual diameter.

3. Mesio-distal diameter of crown and cervical third marginal ridges.

4. Occlusal surfaces, marginal and triangular ridges.

5. Developmental grooves, fossae and sulci.

With at least 70% accuracy at the end of two sessions.

IX. MANDIBULAR 1ST PREMOLAR - Two laboratory sessions.

A. CONDITIONS: Given a demonstration on waxing a mandibular first premolar.

B. PERFORMANCE: The student should be able to draw and wax-up a mandibular left first premolar and place and identify its respective anatomical landmarks. Through homework assignments and repetitive practice the student should be able to demonstrate his

skill in drawing and waxing the mandibular first premolar.

C. EXTENT & CRITERIA: The following points will be evaluated in drawing and waxing the mandibular 1st premolar:

1. The tooth drawn to scale and the anatomical landmarks properly located on the drawing.

2. Emphasis on the widest labial lingual diameter.

3. Mesio-distal diameter of crown and cervical third.

4. Occlusal surfaces, marginal and triangular ridges.

5. Developmental grooves, fossae, and sulci.

With at least 70% accuracy at the end of two sessions.

X. MANDIBULAR SECOND PREMOLAR - Two laboratory sessions.

A. CONDITIONS: Given a demonstration on waxing a mandibular right second bicuspid.

B. PERFORMANCE: The student should be able to draw and wax-up the mandibular right second premolars and place and identify its respective anatomical landmarks. Through homework assignments and repetitive practice the student should be able to demonstrate his skill in drawing and waxing the mandibular left second bicuspid

C. EXTENT & CRITERIA: The following points will be evaluated in drawing and waxing the mandibular second bicuspid:

1. The teeth drawn to scale and the anatomical landmarks properly located on the drawing.

2. Emphasis on their differences in cusp formation.

3. Widest buccal lingual diameter and mesio-distal diameter of

crown and cervical third.

4. Occlusal surfaces, marginal and triangular ridges.

5. Developmental grooves, fossae, and sulci.

With at least 70% accuracy at the end of two sessions.

XI. MAXILLARY FIRST MOLAR - Three laboratory sessions.

A. CONDITIONS: Given a demonstration on drawing and waxing the maxillary first molar.

B. PERFORMANCE: The student should be able to draw and wax-up the maxillary right first molar and place and identify its respective anatomical landmarks. Through homework assignments and repetitive practice the student should also be able to demonstrate his skill in drawing and waxing the maxillary first molar.

C. EXTENT & CRITERIA: The following points will be evaluated in drawing and waxing the maxillary right first molar:

1. The teeth drawn to scale and the anatomical landmarks properly located on the drawing.

2. Emphasis on their differences in cusp formation.

3. The widest buccal lingual diameter and mesio-distal diameter

of crown and cervical third.

4. Occlusal surfaces, marginal and triangular ridges.

5. Developmental grooves, fossae, and sulci.

With at least 70% accuracy at the end of three sessions.

XII. MAXILLARY SECOND PREMOLAR - Two laboratory sessions.

A. CONDITIONS: Given a demonstration on waxing the maxillary left second premolar.

B. PERFORMANCE: The student should be able to draw and wax-up the maxillary 2nd premolar and place and identify its respective anatomical landmarks. Through homework assignments and repetitive practice the student should also be able to draw and wax-up

the maxillary premolar.

C. EXTENT & CRITERIA: The following points will be evaluated

in waxing and carving the maxillary 2nd premolar:

1. Emphasis on the widest labial lingual diameter.

2. Mesio-distal diameter of crown and cervical third.

3. Occlusal surfaces, marginal and triangular ridges.

4. Developmental grooves, fossae, and sulci.

With at least 70% accuracy at the end of two sessions.

XIII. MANDIBULAR 1ST MOLAR - Three laboratory sessions.

A. CONDITIONS: Given a demonstration on waxing-up the mandibular 1st molar.

B. PERFORMANCE: The student should be able to wax-up and carve the mandibular

first molar and identify its respective anatomical landmarks.

Through homework assignments and repetitive practice the student

should also be able to wax-up the mandibular 1st molar.

C. EXTENT & CRITERIA: The following points will be evaluated

in waxing and carving the mandibular first molar:

1. Emphasis on the widest labial lingual diameter.

2. Mesio-distal diameter of crown and cervical third.

3. Occlusal surfaces, marginal and triangular ridges.

4. Developmental grooves, fossae, and sulci.

With at least 70% accuracy at the end of three sessions.

XIV. MANDIBULAR SECOND MOLAR - Two laboratory sessions.

A. CONDITIONS: Given a demonstration on waxing-up the mandibular second molar.

B. PERFORMANCE: The student should be able to wax-up the mandibular second molar and place and identify its respective anatomical

landmarks through homework assignments and repetitive practice the student should also be able to wax-up the

mandibular second molar.

C. EXTENT & CRITERIA: 1. Emphasis on the widest buccal lingual diameter.

2. Mesio-distal diameter of crown and cervical third.

3. Contact area, cusp form, occlusal surface, fossae, sulci, marginal and oblique ridges.

With at least 70% accuracy at the end of two sessions.

XV. PRACTICAL EXAMINATION - Two laboratory sessions.

DL-110 Tooth Morphology

Grading of Final Wax-up

Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Margin:
2. Contacts:
3. Occlusal Relation:
4. Overall Contour:
5. Anatomy:
6. Neatness & Cleanliness:

DL-110 Tooth Morphology

Grading Sheet

# Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Incisors** **Max Score** **Your Score**

Tooth alignment (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_

Cervical line (length & fit) (10 pts) \_\_\_\_\_\_\_\_\_\_\_\_

Location of the contact areas (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_

Height on contour (location) (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_

Embrasures (location and size) (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_

Correct placement of the cingulum,

Line angles and marginal ridges (10 pts) \_\_\_\_\_\_\_\_\_\_\_\_

**Canines:**

Tooth alignment (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_

Cervical line (length and fit) (10 pts) \_\_\_\_\_\_\_\_\_\_\_\_

Location of the contact areas (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_

Height on contour (location) (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_

Embrasure (location and size) (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_

Correct placement of line angles,

Tip of the cusp, marginal, buccal

and lingual ridges. (10 pts) \_\_\_\_\_\_\_\_\_\_\_\_\_

DL-110 Tooth Morphology

Molar Grading Sheet

# Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Name of Tooth** **Max Score** **Your Score Comments**

Tooth alignment (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Margin (length & fit) (10 pts) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Location of the contact areas (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Height on contour (location) (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Embrasures (location and size) (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Correct placement of the buccal and

lingual cusps, line angle ridges and

developmental grooves (10 pts) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

**Mandibular Molars:**

Tooth alignment (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Margin (length and fit) (10 pts) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Location of the contact areas (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Height of contour (location) (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Embrasures (location and size) (20 pts) \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Correct placement of buccal and

lingual cusps, line angle ridges and

developmental grooves (10 pts) \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_