

POSTERIOR FIXED PROSTHODONTICS

COURSE DIRECTORS Dr. D Vo DDS

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Room 4371

Class Schedule

Week 1

Jan 5th

Course Introduction

Lecture

Demonstration of equilibration of viade casts

Evaluation of extracted teeth for Project

Lab

- Students to present their equilibrated Columbia typodonts to faculty. There should be mylar holds on at least teeth #17, #21, #28 and #32.
- **(Project A)** Setup Teeth (Four natural teeth only)
- Make alginate impression of setup natural teeth. Pour two sets of casts.
- Wax up the middle teeth. Make two custom trays.

- **(Project B)** Mounting and Equilibration of Viade Casts. Evaluated by faculty to ensure there are at least 4 posterior teeth holding teeth 2, 5, 12, 15. (Must be signed off)
- Remove #14 Viade
- Make alginate impressions of Columbia typodonts. Pour two sets of casts. One to be used for provisional, keep other in safe place.
- Make alginate impressions of viade casts. Pour two sets of casts, mount one set in panadent articulator cross mount with original Viade. Keep other set safe.
- Fabricate two sets of maxillary custom trays Viade.
- Wax up number #14 on viade cast, ensure you have additional wax in embrasure area. Take impression of maxillary viade cast, pour model in stone. Use stone model to make ellman matrix you will need this model to fabricate provisional restorations for you final project.

Jan 6th

Lecture

Preparation Concept, Custom Trays

Homework

Finishing pouring up cast and mounting

Jan 8th

Demonstration

Demonstration of CVC preps on single tooth #30C, PFM #5C

Demonstration of custom tray fabrication

Lab

- Prepare #30C for CVC
- Prepare #5C for PFM

Homework

- Finish preparations for grading
- Setup 3 extracted teeth for next week Preparations
- Continue with Project A and B preparation
- Fabricate Custom trays for viade casts two sets and two for the extracted teeth

Week 2

Jan 12th

Lab

- Prep CVC on extracted teeth, Change to PFM

Jan 13th

No Class Mock Board

Jan 15th

Lecture

PVC prep, Prep MOD #13C, 7/8 #3C

Lab

- Prep MOD #12C, 7/8 #3C

Homework

- Finish preparation
- Finish Project preparation

Week 3

Jan 19st

MLK No School

Jan 20th

Lecture

Preparation FPD Concept
Diagnosis and Treatment plan for Single

Jan 22th

Lecture

Prep FPD $\frac{3}{4}$ #15C – PFM #13C

Lab

- Prep PFM with metal margin # 29c-30-31c CVC
- Prep FPD $\frac{3}{4}$ #15C – PFM #13C

Homework

- Finish the preps for next session
- Waxup the diagnostic cast of Project A

Week 4

Jan 26th

Lab

- Prep Project A (four extracted teeth) One of the two preparation must be a PVC.

Homework

- Finish Preparation

Jan 27th

Lecture

Provisional restoration

Jan 29th

Lecture

Demonstration of Provisional on single tooth #30C

Lab

- Make ellman or putty for #30C, 5C
- Provisional restoration # 30C, 5C

Homework

- Make ellman or putty for #12C, 3C
- Make ellman index for Project A

Materials required

- **White rope wax**
- **Jet powder and liquid (shade B65) (1 bottle monomer, 1 bottle polymer)**
- **Articulating paper**
- **Silver mylar**

- Cotton roll
- Alginate
- Quick set plaster

Week 5

Feb 2nd

Lab

Provisional #12c MOD, #3c 7/8

Materials required

- White rope wax
- Jet powder and liquid (shade B65) (1 bottle monomer, 1 bottle polymer)
- Articulating paper
- Silver mylar
- Cotton roll
- Alginate
- Quick set plaster

Feb 3rd

Lecture

Pontic design concept, FPD Provisional

Feb 5th

Lecture

Demo Provisional #31C-30p-29C

Lab

- Provisional restoration #15C-14p-13C
- Provisional restoration #31C-30p-29C

Materials required

- White rope wax
- Jet powder and liquid (shade B65) (1 bottle monomer, 1 bottle polymer)
- Articulating paper
- Silver mylar
- Cotton roll
- Alginate
- Quick set plaster

Homework

- Finish Provisional

Week 6

Feb 9th

Lab

TPX #1 Prep single unit 1.5hr, TXP #2 Provisional single unit 1.5hr tooth TBA

Homework

- Finish Viade cast preparations for Provisionals at next session.

Materials required

- **White rope wax**
- **Jet powder and liquid (shade B65) (1 bottle monomer(COLORED for exam), 1 bottle polymer)**
- **Articulating paper**
- **Silver mylar**
- **Cotton roll**
- **Alginate**
- **Quick set plaster**

Feb 10nd

Lecture

Diagnosis and Treatment plan Missing teeth,

Feb 12th

Lecture

Provisional FPD, Impression instruction

Lab

- Prep 3/4 # 15v-14p-13v PFM Project B

Week 7

Feb 16th

No School President's Day

Feb 17th

Lecture

Impression, Tissue retraction

Feb 19th

Lab

- **Provisional for 15V-14p-13V Project B**

Week 8

Feb 23rd

Lab

- **Check Project A (four extracted teeth) / Provisional**

Feb 24th

No Lecture Mock Board

Feb 26th

Lab

- Pack cord around the teeth in the Viade cast
- Final impression lecture / Final impression Project A and B
- **Finish Provisional for Project A and B**

Materials

- **Retraction cords**
- **Adhesive for PVS**
- **Extrude heavy body and light body.**
- **Regisil bite registration material**
- **Boxing wax**
- **Rope wax**
- **Baseplate wax**
- **Die Keen**
- **Crosspins**
- **Microstone**
- **Impression plaster**
- **Super sep**
- **Monoject syringes**
- **Jet acrylic powder and liquid**

Week 9

March 2nd

No Class Midterm

March 3rd

No Class Midterm

March 5th

Written Exam, TPX 3 + 4 Exam Prep and Provisional (5 hrs)

Week 10

March 9th

Lecture

Pindex, Diework

Lab

- Pindex with pins in all the teeth in Project A
- Pindex with pins in tooth position # 2, 6, 11, 12, 13, 14, 15 for Project B
- Mount the Maxillary Cast by cross mounting with the mandibular diagnostic cast Project B.
- Section and trim the dies between # 12-13, 13-14, 14-15
- Redline # extracted teeth and 13, 15 and cynoacrylate
- Die space #Extracted teeth, 13, 15

March 10th

Lecture

Waxup and Occlusion

March 12th

Lab

- Waxup for #13V-14p-15V, Project A

Materials

- **Green inlay wax**
- **Articulating paper ACCUFILM Blue and Red**
- **Putty base and catalyst**

Week 11

March 16th

Lab

- Finish waxup for Project A and B

March 17th

Lecture

No Lecture Mock board

March 19th

Lecture

Gypsum, Cutback, Investment

Lab

- Complete Waxup for #13V-14pV-15, Project A

- Cutback for #13V-14p
- Marginate
- Investment
- Cast

Materials

- **2 Ring Liner for C1 ring**
- **Ceramigold and Novocast 2 bag each.**
- **Sprue size 10**
- **Sag R Lock**
- **Sticky wax**

Homework

- Cast Project A teeth with type III gold
- Cast #13V-14p with PFM metal
- Cast # 15V with Type III gold

- Finish castings

Week 12

March 23rd

TPX 5 + 6 Exam Prep and Provisional (4 hrs)

March 24th

Lecture

- Alloy in Dentistry and Soldering

Homework

- Setup 2 posterior endo teeth in acrylic

March 26th

Lecture

- Finishing and polishing
- Finish casting and seating of the restoration for Project A and B

Week 13

March 30th

- Polished and **Turn in Project A and B**
- Turn in project
 - **Project A**
 - Diagnostic cast
 - Pindex cast
 - Solid cast
 - Cast with provisionals

- Crowns on the Prep extracted teeth

- **Project B**

- Articulator and Viade mounted
- #15V-14p-13V FPD crowns
- #15V-14p-13V Provisional restoration

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Materials

- Silver Mylar
- Impression plaster
- Tripoli
- Rouge
- BBC for polishing
- Robinsons brushes
- Articulating paper.

March 31st

Lecture

- Endodontically treated teeth

April 2nd

Lab

- Prepare post space
- Cement post
- Shell for buildup
- Amal buildup
- Composite build up on Endodontics extracted teeth

Materials

- GC Pattern Resin/Duralay Resin
- Amalgam Spherical alloy (Brown color)
- Amalgamators
- Radiographic film(Posteriors and anteriors)
- Xray machines need to be in working order
- Fixer and developer to process radiographs.
- Pre fabricated, and plastic parapost/burnout serrated patterns (sizes 3 and 4)
- Peeso and post drill (size #3 and 4)
- Ceramigold investment
- Sprues(Medium size)
- Ring liner for C1 cast ring
- Jet powder and liquid (Shade B65)
- Silver Mylar
- Amalgam and amalgamators

- Titanium parapost
- Aluminium temporary posts
- Zinc Phosphate cement (Powder and liquid)
- Impression plaster
- Articulating paper.

Week 14

April 6th

Lab

- Make up for TPX's Prep /Provisional

April 7th

Lecture

- Cementation

April 9th

Lab

- Post soldering / Cementation of Project A

Material

- GC Pattern Resin/Duralay Resin
- Ceramigold investment
- Duralay
- Rope wax
- Silver Mylar
- Impression plaster
- Tripoli
- Rouge
- BBC for polishing
- Robinsons brushes
- Articulating paper

Week 15

Final written exam

Final FPD Prep Columbia teeth TBA

Final FPD Provisional Columbia teeth TBA

Materials required

- White rope wax
- Jet powder and liquid (shade B65) (1 bottle monomer(COLORED for exam), 1 bottle polymer)
- Articulating paper

- **Silver mylar**
- **Cotton roll**
- **Alginate**
- **Quick set plaster**