

June 4, 2020

Pathway 1: Anaplastology Educational Program with a clinical component:

This program is open to active enlisted members serving in the United States military.

Education is facilitated by the Naval Post graduate Dental school, Bethesda, MD.

- I. **Dental Laboratory Maxillofacial "C" School:** This curriculum consists;163 days, 960 contact hours. It teaches the knowledge and skills required to fabricate maxillofacial prosthetic devices and to assist the dental officer in maxillofacial prosthetic treatment procedures.
- II. **Scope:** This course includes instructions in the handling of prosthodontic materials and equipment as well as special materials and equipment for making extra-oral facial prostheses. The student will be exposed to fabrication techniques for surgical splints and stents, and somato prostheses, facial prostheses, cranial implants, soft tissue implants, maxillary obturators for acquired and congenital defects, speech bulbs, mandibulectomy prostheses, burn splints and prostheses for patients exposed to radiation therapy.
- III. **Prerequisites:** Dental technicians (DT-8765) in paygrades E5 and E6 who have a minimum of 2 years in paygrade E5 and E6 and 3 years experience since graduating from Dental Laboratory "C" school basic. Candidates must possess and demonstrate a high level of manual dexterity and artistic ability and must have normal/sensitive color perception. A letter of recommendation by a Navy dental officer practicing in the prosthodontic discipline (Board Certified Prosthodontist) containing a statement of prosthetic experience and abilities, and artistic abilities is required. Must be physically qualified for transfer in accordance with Article 15-57 of the Medical Department and Chapter 7.01 of the Enlisted Transfer Manual. Members requiring medical attention, including pregnancy, shall not be transferred to school. Obligated Service is 36 months at the start of school.
- IV. **Applications:** Submit to Bureau of Naval Personnel (PERS-407C) on the Enlisted Transfer and Special Duty Request, NAVPERS 1306/7 in accordance with TRANSMAN Chapter 7.
- V. **Convening Schedule** - January & June each year

**Course hours will vary depending on availability and type of patients.

The curriculum deleted: Breast Prosthesis Fabrication Oct 2006 and Custom Auditory Insert Jul 2007.

Added: Craniofacial Imaging 3-D model Oct 2006.

DENTAL MAXILLOFACIAL LABORATORY TECHNOLOGY (ANAPLASTOLOGY)

COURSE SYNOPSES

UNIT 1: IMPRESSION FOR FACIAL PROSTHESES

Introduction to the Dental Maxillofacial environment, including safety and infection control considerations; introduction and preparation of maxillofacial materials for facial impressions; taking facial impressions; and fabricating stone molds.

Category Hours:

<u>Didactics</u>	<u>LAB/Practical</u>	<u>Clinical</u>	<u>Total</u>
18.0	27.0	7.0	52.0

UNIT 2: SCULPTURING

An in-depth study of the importance of anatomical structures of the eye, ear, nose. Included are specific anatomical landmarks that the student will use to carve wax and clay three-dimensional anatomical structures of the ear and nose.

Category Hours:

<u>Didactics</u>	<u>LAB/Practical</u>	<u>Clinical</u>	<u>Total</u>
10.0	54.0	0.0	64.0

UNIT 3: MOLD MAKING

Facial prosthetic types include plaster or dental stone molds; synthetic material molds made from latex, epoxy resin, or silicone rubber; and metal molds. This unit concentrates on the development of essential skills in mold construction.

Category Hours:

<u>Didactics</u>	<u>LAB/Practical</u>	<u>Clinical</u>	<u>Total</u>
6.0	22.0	0.0	28.0

UNIT 4: CONSTRUCTION OF OCULAR PROSTHESES

This unit provides information on the anophthalmic condition changes in the anophthalmic socket and how these changes affect prosthetic management. It also introduces the student to primary colors and the color wheel, and various techniques used for painting and fabricating artificial eyes.

Category Hours:

<u>Didactics</u>	<u>LAB/Practical</u>	<u>Clinical</u>	<u>Total</u>
9.0	53.0	12.0	74.0

UNIT 5: EXTRAORAL PROSTHESES

Theory and practice in the fundamentals of designing, fabricating, and characterizing orbital, nasal, and auricular prostheses intrinsically and extrinsically with colorants.

Category Hours:

<u>Didactics</u>	<u>LAB/Practical</u>	<u>Clinical</u>	<u>Total</u>
16.0	107.0	33.0	156.0

UNIT 6: INTERIM PROSTHESES

Theory and practice in fabricating radiation positioning stents and shielding devices, nasal stents, bolus devices, custom stoma plugs and auditory inserts, sleep apnea devices and cleft palate devices.

Category Hours:

<u>Didactics</u>	<u>LAB/Practical</u>	<u>Clinical</u>	<u>Total</u>
9.0	245.0	28.0	282.0

UNIT 7: IMPLANTS

This unit concentrates on theory and practice in fabricating cranial implant prostheses, extra-oral retention bars and bone-anchored implants used to retain extra-oral prostheses and techniques used for soldering implant frameworks.

Category Hours:

<u>Didactics</u>	<u>LAB/Practical</u>	<u>Clinical</u>	<u>Total</u>
6.0	85.0	14.0	105.0

UNIT 8: INTRAORAL PROSTHESES

This unit provides the knowledge and skills for fabricating maxillary obturators, hemimandibulectomy complete dentures, and dynamic bite openers.

Category Hours:

<u>Didactics</u>	<u>LAB/Practical</u>	<u>Clinical</u>	<u>Total</u>
5.0	111.0	4.0	120.0

COURSE DATA

1. **COURSE MISSION:** The Dental Maxillofacial School is responsible for providing Naval Dental Technicians with training in the field of Maxillofacial Prosthetics to include the following: instruction in the handling of prosthodontic materials and equipment as well as special materials and equipment for making extra-oral facial prostheses, surgical splints and stents, somato prostheses, facial prostheses, cranial implant, soft tissue implant, maxillary obturators for acquired and congenital defects, speech bulbs, mandibulectomy prostheses, burn splints and prostheses for radiated patients.

2. **SECURITY CLASSIFICATION:** Unclassified

3. **COURSE LENGTH:** 168 Training days; 960 contact hours

DISTRIBUTION OF CONTACT HOURS:

Didactic	63.0	Required Training	16.0
Lab/Practical	720.0	Required Activities	63.0
Clinical	98.0		

4. **LOCATION AT WHICH TAUGHT:**

Naval Post Graduate Dental School, Bethesda, Maryland

5. **CLASS CAPACITY:** Two

Convening Frequency: Two classes per year

6. **STAFFING REQUIREMENTS:** HM-8765; Instructor training equivalent to Chief, Naval Education and Training (CNET) instructor training course, or NEC 9502.

7. **CURRICULUM APPROVAL AUTHORITY:** Bureau of Medicine and Surgery, Washington, DC

8. **QUOTA CONTROL:** Bureau of Naval Personnel

9. **IMPLEMENTATION DATE:** July 1999 Revised/Approved Jul 2009

10. **PRIMARY MODE OF INSTRUCTION:** Group-paced

11. **INSTRUMENT AND PROCEDURES FOR MEASURING STUDENT PERFORMANCE:** Written criterion-referenced tests, performance checklists, and product evaluation forms.

12. **DATE OF PRECEDING CURRICULUM OUTLINE:** July 1999

COURSE SCHEDULE SUMMARY

DENTAL LABORATORY TECHNOLOGY MAXILLOFACIAL (DT-8765)

NSHS BETHESDA, MARYLAND

1. **COURSE DATA**

CIN: B-331-0018

CDP: 3314

INSTRUCTIONAL DAYS: 120 CLASSES PER YEAR: 2

PERIODS PER WEEK: 40

PERIOD LENGTH: 50 MIN

INSTRUCTOR CROSS-UTILIZATION:

When required instructors will assist with lab/practical sessions in units 1 through 8.

2. STUDENT-TO-INSTRUCTOR RATIO SUMMARY

Standard ratio:

Didactic/required training/other required activities = 1:1 Practical = 1:1

Ratio-period summary:

<u>STUDENT-INSTRUCTOR RATIO</u>		<u>PERIODS</u>
1:1	Didactic	79
1:1	Laboratory	704
1:1	Clinical	98
	TOTAL	881

3. JUSTIFICATION & UTILIZATION FOR RATIOS OTHER THAN 25:1

1:1 Ratio: A student-to-instructor ratio of at least 1:1 is required during practical and clinical performance to maintain adequate supervision.

Utilization Chart

Ratio	Hrs	LT/Type period	Instructor Utilization
1:1	704	All Lab/Practical	1 instr. – instructors for the class.

- 1:1 98 All Clinical 1 instr. – supervised practice and evaluations.
 1:1 79 All Didactic 1 instr. – clinical applications and evaluations.

CONTACT HOURS OUTLINE

UNIT 1.0 IMPRESSION	<u>DID</u>	<u>LAB/PR</u>	<u>CL</u>	<u>Total</u>
FACIAL PROSTHESES	18.0	27.0	7.0	52.0
1.1 Dental Lab. & Clinical Safety	4.0	0.0	0.0	4.0
1.2 Infection control	4.0	0.0	0.0	4.0
1.3 Facial Imp. Materials & Set-up	3.0	0.0	2.0	5.0
1.4 Full Facial Impressions	1.0	0.0	2.0	3.0
1.5 Moulage Fabrication	2.0	27.0	1.0	30.0
1.6 Nasal & Auricular Imp. Set-up	2.0	0.0	2.0	4.0
Didactic Test/Review	2.0	0.0	0.0	2.0
UNIT 2.0 SCULPTURING	10.0	54.0	0.0	64.0
2.1 Max/facial Anatomy of an Ear	2.0	0.0	0.0	2.0
2.2 Max/facial Anatomy of a Nose	2.0	0.0	0.0	2.0
2.3 Sculpturing a Wax Ear	1.0	14.0	0.0	15.0
2.4 Sculpturing a Wax Nose	1.0	14.0	0.0	15.0
2.5 Sculpturing a Clay Ear	1.0	13.0	0.0	14.0
2.6 Sculpturing a Clay Nose	1.0	13.0	0.0	14.0
Didactic Test/Review	2.0	0.0	0.0	2.0

UNIT 3.0 MOLD MAKING 6.0 22.0 0.0 28.0

3.1 Construction of Stone Molds	2.0	10.0	12.0	3.2
Multi-Sectional Molds	2.0	12.0	0.0	14.0
Didactic Test/Review	2.0	0.0	0.0	2.0

UNIT 4.0 OCULAR PROSTHESES 9.0 53.0 12.0 74.0

4.1 Anophthalmic Conditions	4.0	0.0	0.0	4.0
4.2 Color Theory	1.0	21.0	0.0	22.0
4.3 Fabrication of an Ocular	2.0	32.0	12.0	46.0
Didactic Test/Review	2.0	0.0	0.0	2.0

UNIT 5.0 EXTRAORAL PROSTHESES 16.0 107.0 33.0 156.0

5.1 Orbital Prosthesis	4.0	31.0	15.0	50.0
5.2 Nasal Prosthesis	4.0	23.0	7.0	34.0
5.3 Auricular Prosthesis	4.0	23.0	7.0	34.0
5.4 Breast Prosthesis	2.0	30.0	4.0	36.0
Didactic Test/Review	2.0	0.0	0.0	2.0

UNIT 6.0 INTERIM PROSTHESES 9.0 245.0 28.0 282.0

	18.0	27.0	7.0	52.0
6.1 Rad. Positioner Fabrication	0.0	40.0	4.0	44.0
6.2 Rad. Shield Fabrication	0.0	21.0	2.0	23.0

6.3 Nasal Stent Fabrication	0.0	25.0	3.0	28.0
6.4 Bolus Device Fabrication	2.0	33.0	2.0	37.0
6.5 Custom Stomal Plug Fabrication	1.0	28.0	4.0	33.0
6.6 Custom Auditory Insert Fab.	1.0	25.0	4.0	30.0
6.7 Sleep Apnea Fabrication	1.0	30.0	4.0	35.0
6.8 Cleft Palate Prosthesis Fab.	2.0	43.0	5.0	50.0
Didactic Test/Review	2.0	0.0	0.0	2.0

UNIT 7.0 IMPLANTS 6.0 85.0 14.0 105.0

18.0 27.0 7.0 52.0

7.1 Cranial Implant Prosthesis Fab.	1.0	25.0	8.0	34.0
7.2 Prosthetic Retention Bar Fab,	1.0	19.0	0.0	20.0
7.3 Construct Bone Anchored Bridge	1.0	32.0	4.0	37.0
7.4 Soldering a Substructure Frwk.	1.0	9.0	2.0	12.0
Didactic Test/Review	2.0	0.0	0.0	2.0

UNIT 8.0 INTRAORAL PROSTHESES 5.0 111.0 4.0 120.0

18.0 27.0 7.0 52.0

8.1 Construction of Max. Obturator	1.0	50.0	0.0	51.0
8.2 Hemimandibulectomy Denture	1.0	33.0	4.0	38.0
8.3 Dynamic Bite Opener	1.0	28.0	0.0	29.0
Didactic Test/Review	2.0	0.0	0.0	2.0

- VI. Indicate which educational/training Pathway you are applying. example:
Pathway 1 Anaplastology Educational Program with clinical component
- VII. What documents are needed to submit to the BCCA board prior to sitting for the written exam.
1. Name, location of program, date of degree or certificate:
 2. List completion info for required coursework/institution and course title
 - a. Course A: CPR/Advanced Life Support
 - b. Course B: Privacy and Ethical Practices (i.e. HIPAA or Equivalent Training)
 - c. Course C: Infection Control Practices (covering HIV, Hepatitis, MRSA and Tuberculosis infection control)
 - d. Course D: Human Anatomy OR Human Anatomy & Physiology (eq. to two semesters.)
- VIII. Information on how you request your military transcript.

Branch	Population	Official Transcript	Source for Transcript
Army	Active Duty, Reserves, National Guard and Veteran		
Navy	Active Duty, Reserves and Veteran	ACE Registry Transcript	Joint Services Transcript (Follow the instructions in your browser to continue to the website.)
Marine Corps	Active Duty, Reserves and Veteran		
Coast Guard	Active Duty, Reserves and Veteran		
Air Force	Active Duty, Reserves, Air National Guard (<i>service after 1972</i>) Army, Navy, Marine Corps, Coast Guard (<i>service prior to 1976</i>)	Community College of the Air Force transcript	CCAF Transcript
Veterans		DD-214	National Archives
	Air Force (<i>service prior to 1972</i>)		