

**Naval Postgraduate Dental School
Correspondence Course Program
October 2011**

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Courses Available

**Endodontics
Fixed Partial Denture Prosthodontics
Operative Dentistry
Oral Pathology
Oral and Maxillofacial Surgery
Orthodontics
Pediatric Dentistry
Periodontics**

Videotape Series

**Infection Control in Dentistry – available on-line from the Indian Health Service
Nitrous Oxide Equipment and Techniques: a Refresher
Orofacial Pain – Differential Diagnosis, Co-morbid Diagnosis and Mimickers
Periodontal Plastic surgery
Principles and Techniques of Biopsies of the Oral Cavity**

ENROLLMENT PROCEDURES

The National Naval Medical Center sponsors a series of correspondence courses that are developed and administered by the Naval Postgraduate Dental School. Dental officers on active duty with the US Armed Forces, with other Federal agencies, or with the armed forces of other nations are eligible to enroll in these courses. Dental officers of the Reserve component of the US Armed Forces and those who have retired may also enroll.

An application form is included in the back of this brochure. Please feel free to copy it. To enroll in a course please follow the instructions on the application.

Sometimes, we have to establish waiting lists for courses because of shortages of course materials.

For this reason, we suggest that you indicate a second choice on the application unless you are interested in a specific course. However, you may be enrolled in only one course at a time. Note: You can avoid being put on a waiting list if you already have the textbook for the course. If you do have the textbook, indicate this fact on the application.

COMPLETION OF COURSES

Textbook based courses are available on the Web. When you submit an application please be sure to include your email address. We will send you a WebCT ID and password by email. We will also send you a textbook by regular mail if you do not have your own. The format for our courses has not changed. You will read a textbook and answer questions. However, now you will enter your answers on the Web. You will be able to get immediate feedback after completing an assignment (quiz). You are expected to complete at least one assignment (quiz) each month. The supply of texts and other

materials for some correspondence courses is limited, and prospective enrollees must sometimes wait until other students have returned study materials before they can be enrolled in the courses they have requested. To reduce waiting time to a minimum, it is essential that assignments (quizzes) be completed promptly and that materials be returned without delay. If circumstances such as illness or change of duty station make it difficult for you to submit a particular assignment on time, contact us by telephone at DSN 285-4832 or commercial (301) 319-4832. Students are automatically terminated at the end of one year and are expected to return textbooks to the school.

The passing grade for all courses is 3.4 (a perfect score is 4.0). A letter of satisfactory completion will not be authorized if the average grade for a completed course falls below this standard.

Assignments that fall below the minimum standard may be retaken in an effort to raise the grade to a satisfactory level.

Letters of satisfactory completion are forwarded through appropriate channels to students who successfully complete any of the correspondence courses. Before a letter of completion is issued, however, the course materials must be returned.

NAVAL RESERVE RETIREMENT CREDIT

Retirement points may be credited only to personnel eligible to receive them under current directives governing retirement of Naval Reserve personnel. The Naval Reserve Personnel Center (Code N211), New Orleans, Louisiana 70149, maintains records of training and retirement point credits for each Naval Reserve officer. Accordingly, when a Naval Reserve officer successfully completes a correspondence course or unit, the Naval Postgraduate Dental School forwards a copy of the letter of satisfactory completion to that activity. Credit is granted as of the date on which the student completed the last satisfactory assignment of a course or unit.

CONTINUING EDUCATION CREDITS

The US Navy Dental Corps is an ADA CERP Recognized Provider.

ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry.

The formal continuing education programs of US Navy Dental Corps are accepted by the Academy of General Dentistry for Fellowship/Mastership credit.

Three clock hours of credit are given for each retirement point that could be awarded to eligible Naval Reserve officers. For example, for a course with 12 retirement points the participant will receive 36 continuing education credits.

If members of the Academy of General Dentistry indicate their AGD number on their enrollment applications, a copy of the course completion letter will be forwarded to the AGD.

COURSES AVAILABLE

Endodontics (NAVEDTRA 13151-B) Revised 2007

8 Assignments, 16 retirement points. The US Navy Dental Corps designates this activity for 48 continuing education credits.

Unit 1: Assignments 1-4, 8 retirement points. The US Navy Dental Corps designates this activity for 24 continuing education credits.

Unit 2: Assignments 5-8, 8 retirement points. The US Navy Dental Corps designates this activity for 24 continuing education credits.

Text: *Pathways of the Pulp*, ed. 9, edited by Stephen Cohen and Kenneth M. Hargreaves. Mosby/Elsevier, St. Louis, 2006.

Limited text availability. Please enter a second choice when applying.

There has been an enormous amount of research conducted in the past 10 years advocating new techniques in this field. It is difficult for the general dentist to keep up-to-date by reading the literature in every specialty. Therefore, the goal of this course is to help the general dentist remain current in the field of Endodontics by presenting information on the latest and proven techniques.

Upon completion of this course, you should be able to:

- explain the inflammatory process as it relates to the dental pulp and periradicular tissues
- analyze information obtained from the history, clinical examination, diagnostic tests, and radiographic examination, and arrive at a clinical diagnosis of pulpal and periradicular pathoses and the appropriate treatment plan
- design access preparations and discuss canal morphology for all teeth
- identify various instruments in the endodontic armamentarium and explain sterilization procedures
- describe methods of canal cleaning and shaping
- explain the different methods of obturating the root canal system
- devise treatment plans for various types of endodontic pulpotomy, apexification, and apexogenesis
- identify types of resorption and recommend methods of treatment
- describe the techniques and sequence of procedures used in endodontic surgery
- plan the appropriate bleaching procedure for different types of discolored teeth
- discuss factors that affect success and failure of endodontic therapy
- discuss the importance of maintaining good patient records from a legal standpoint
- discuss the basic legal responsibilities of the doctor/patient relationship

Fixed Partial Dentures (NAVEDTRA 13106-A) Revised 2005

6 Assignments, 12 retirement points. The US Navy Dental Corps designates this activity for 36 continuing education credits.

Text: *Contemporary Fixed Prosthodontics*, ed. 3, by Stephen F. Rosenstiel, Martin F. Land, and Junhei Fujimoto. CV Mosby, St. Louis, 2001.

The aim of the course is to provide the general practitioner with a review and an update of fixed prosthodontic therapy, including tooth preparation for complete cast crowns, metal-ceramic crowns, partial veneer crown, inlays, onlays, all-ceramic restorations, restoration of endodontically treated teeth, and implant-supported fixed prostheses. Laboratory procedures needed to perform the clinical procedures are covered in detail.

Upon completion of this course, you should be able to:

- describe how to make accurate diagnostic casts and how to articulate them on the appropriate instrument.
- select the appropriate materials and techniques for restoration of a patient.
- list the indications and contraindications for a complete cast crown.
- describe the characteristics of the partial veneer restoration preparation.
- determine when a ceramic inlay, onlay, or veneer is the treatment of choice.
- explain the steps involved in the preparation of a tooth for a post and core.
- determine when implants may be indicated or contraindicated for a given edentulous site.
- discuss the indications and contraindications for resin-retained fixed partial dentures.

- list the steps in fabrication of the various all-ceramic restorations.
- discuss the responsibilities of the dentist when requesting laboratory support.
- describe the various aspects of the laboratory work authorization and the importance of completeness.
- discuss the variations in technique for cementing veneers and inlays.
- determine when it would be necessary to retreat rather than repair the prosthesis.

Operative Dentistry (NAVEDTRA 13146-B) Revised 2008

5 Assignments, 10 retirement points. The US Navy Dental Corps designates this activity for 30 continuing education credits.

Text: is *Fundamentals of Operative Dentistry*, by James B. Summitt, et al., third edition, published by Quintessence Publishing Company, Inc., 2006.

The discipline of operative dentistry has undergone many changes in recent years because of such things as improved dental material and equipment, increased emphasis on prevention, advanced concepts of preparation design, and more exacting histological research. Keeping current in the discipline requires study and dedication. However, the advantages derived by you and patients justify the time and effort spent on continuing education. This course provides you with an opportunity to enhance your skills in all areas of operative dentistry, including prevention, interception, preservation, and restoration.

Upon completion of this course, you should be able to:

- understand the structure and differences of the components that comprise a tooth
- discuss caries as a disease and be familiar with risk factors associated with caries
- learn how to establish a problem list and treatment plan to successfully manage the patients dental disease
- understand the classification of caries and tooth preparations
- understand Black's steps in cavity preparation
- understand the nomenclature for hand and rotary instruments
- list the options for operative field isolation. Discuss the advantages and disadvantages of each.
- describe Class 1 and 2 preparations
- describe retention and resistance methods
- identify matrix systems and their applications
- describe the process of the placement and carving of amalgam
- discuss the diagnosis and treatment of root caries, specifically, prevalence and incidence, risk factors and assessment, diagnosis, and preventive, chemotherapeutic and restorative treatment options
- list the fluoride releasing materials
- understand the following characteristics of fluoride:
 - fluoride recharging
 - antibacterial effects of fluoride
 - do fluoride releasing materials inhibit caries?
- understand advantages of indirect resin inlay/onlay over direct resin composite restorations.
- understand the indications for ceramic versus resin indirect inlay/onlay restoration in terms of microleakage, bonding, wear, and occlusal stability.
- understand the basic preparation designs for CAD/CAM esthetic inlay and onlay compared with indirect laboratory fabricated restorations.
- understand the advantages of cast gold restoration over direct restorative materials.
- understand marginal placement and finishing in terms of gingival health.

Oral Pathology (NAVEDTRA 13150-B) New course 2011

7 Assignments, 14 retirement points. The US Navy Dental Corps designates this activity for 42 continuing education credits.

Unit 1: 1-4, 8 retirement points. The US Navy Dental Corps designates this activity for 24 continuing education credits.

Unit 2: 5-7, 6 retirement points. The US Navy Dental Corps designates this activity for 18 continuing education credits.

Text: *Oral and Maxillofacial Pathology*, 2nd edition, by Brad W. Neville, Douglas D. Damm, Carl M. Allen, and Jerry E. Bouquot, published by the W.B. Saunders Company, 2002.

Oral Pathology, NAVEDTRA 13150-B, is the fifth major revision of this Naval Postgraduate Dental School correspondence course, formerly named Oral Diagnosis. Like its predecessors, it is intended as an aid to those who wish to supplement their previous training and clinical experience. Therefore, the goal of this course is to help the general dentist remain current in the field of oral pathology. This course will enhance the clinician's ability to distinguish between similar-appearing lesions by presenting the significant and unique characteristics of relatively common oral diseases.

Upon completion of this course, you should be able to:

- differentiate developmental cysts and other anomalies
- describe the pathologic processes of pulpal and periradicular disease related to tooth borne and periodontal processes
- discuss the clinical causes, features and treatments of bacterial infections specific to the head and neck as well as the oral cavity
- describe bacterial infections that can be found locally as well as systemically
- discuss the effects, clinical signs and symptoms of sexually transmitted diseases and how they affect the oral cavity
- identify the different forms of candidiasis as well as its treatment
- describe and identify additional fungal and protozoal diseases and how they affect the oral cavity as well as the head and neck
- describe the clinical presentations of the different forms of the human herpes virus as well as other viral pathogens that have a systemic profile in addition to affecting the oral cavity
- discuss the clinical causes and appearances of varying traumatic and physical changes to the oral cavity as well as treatment for these entities
- describe and discuss the clinical and radiographic signs and symptoms of common chemicals and their effects on the oral cavity
- identify a number of the different forms of allergic and immunologic diseases and their telltale signs within the oral cavity
- identify and describe select forms of benign and malignant epithelial lesions common to the oral cavity as well as the head and neck
- recognize non-neoplastic salivary gland pathology and describe treatment options
- identify the characteristics of sjögren syndrome and its associated conditions
- identify benign and malignant salivary gland neoplasms and the most common locations for each respectively
- identify syndromes associated with soft tissue tumors
- identify the neoplastic cell type of hematologic malignancies
- describe and discuss the clinical and radiographic features of various benign and malignant fibro-osseous lesions common to the maxillofacial skeleton
- describe and discuss the clinical and radiographic features along with developing an appropriate

- differential diagnosis for the various odontogenic cysts and tumors
- identify and describe select forms of dermatologic diseases which tend to have oral and maxillofacial involvement
 - categorize diseases according to their etiology/etiologies
 - understand how the physiology of each disease results in specific manifestations of the oral cavity
 - understand how the treatment of each disease affects signs and symptoms of the oral cavity
 - understand the difficulty of recognizing and treating facial pain conditions
 - compare and contrast osteoarthritis and rheumatoid arthritis

Oral and Maxillofacial Surgery (NAVEDTRA 13105-A) Revised 2010

10 Assignments, 16 retirement points. The US Navy Dental Corps designates this activity for 48 continuing education credits.

Unit 1: 1-5, 8 retirement points. The US Navy Dental Corps designates this activity for 24 continuing education credits.

Unit 2: 6-10, 8 points. The US Navy Dental Corps designates this activity for 24 continuing education credits.

Text: *Contemporary Oral and Maxillofacial Surgery*, ed 5. JR Hupp, E Ellis III, MR Tucker. CV Mosby, St. Louis, 2008.

Limited text availability. Please enter a second choice when applying.

This course presents detailed coverage of principles and procedures in the main phases of oral and maxillofacial surgery. The course covers such subjects as general principles of surgery, exodontia, preprosthetic surgery, infections, management of oral pathologic lesions, oral and maxillofacial trauma, and dentofacial deformities.

Upon completion of this course, you should be able to:

- develop a comprehensive diagnostic approach and surgical treatment plan rationale for various treatment entities
- demonstrate proper operating room protocol, including scrub techniques and surgeon and assistant preparation
- recognize and manage common postoperative problems
- describe the basic aspects of atraumatic erupted tooth extraction, including position of the patient, surgeon, chair, and assistant, and the armamentarium and movements necessary to extract each tooth
- describe the principles of flap design, surgical extraction techniques, and suturing techniques
- describe the principles of patient evaluation and treatment planning for preprosthetic surgery
- diagnose and treatment plan the complex facial space infections
- describe how to perform a patient examination and a diagnostic evaluation of soft and hard tissue lesions
- describe what diagnostic modalities are used in the evaluation of hard and soft tissue injuries
- explain the presurgical/surgical phases of care
- describe the physiology of pain and the manner in which neurogenic pain problems of the head and neck region are managed

Orthodontics (NAVEDTRA 13136) New 2005

6 Assignments, 14 retirement points. The US Navy Dental Corps designates this activity for 42 continuing education credits.

Text: *Contemporary Orthodontics*, 3rd edition. WR Proffit, HW Fields, Jr. The CV Mosby, St. Louis, 2000.

The aim of this course is to help you improve your ability to assess and diagnose orthodontic problems and to familiarize you with the basic orthodontic techniques in managing patients with these problems. This course provides practical guidelines for the General Dentist in the preliminary diagnosis of patients with orthodontic problems. These guidelines may also be used when minor tooth movement is being considered. The course has six assignments and covers such subjects as the development of orthodontic problems, diagnosis and treatment planning, biomechanics and mechanics, fixed and removable appliances, treatment of orthodontic problems in preadolescent children, comprehensive orthodontic treatment in the early permanent dentition, and treatment for adults.

Upon completion of this course, you should be able to:

- describe normal occlusion and the different classes of malocclusion
- discuss the sites and types of growth in the cranial vault, cranial base, maxilla and mandible
- describe the process of tooth eruption and the developmental sequence of the permanent dentition
- describe the dimensional and rotational changes that occur during the development of the maxilla and mandible
- discuss the contemporary perspective on the etiology of crowding, malalignment and skeletal problems
- understand and use the various methods of space and cephalometric analysis
- describe the sequence of steps in orthodontic treatment planning
- discuss the effects of orthodontic force on the midface, maxilla and mandible
- list the indications for banding
- discuss the method of closing extraction spaces using moderate and maximum anchorage

Pediatric Dentistry (NAVEDTRA 13115) New course 2008

7 Assignments, 14 retirement points. The US Navy Dental Corps designates this activity for 42 continuing education credits.

Text: *Dentistry for the Child and Adolescent*, ed. 8, Ralph E. McDonald and David R. Avery. Mosby, St. Louis, 2004

Limited text availability. Please enter a second choice when applying.

Upon completion of this course, you should be able to:

- identify the signs of substance abuse in their patients
- describe the basic categories of behavior management and discuss how they are used to achieve the behavior management goals
- list the indications and contraindications for the use of restraint and state the AAPD guidelines for the use of restraint
- list the indications for the use of HOME and be able to describe how it is used properly
- differentiate between the various genetic alterations which lead to genetic diseases or anomalies
- Identify and discuss the etiology and management of common oral infectious processes related to the dentition and periodontal structures

- identify and manage common developmental anomalies of the teeth
- identify early exfoliation in the child dental patient, and have an appreciation of the disorders often associated with this phenomenon
- identify the various causes and treatment of enamel hypoplasia
- identify the abnormal labial frenum, and counsel parents appropriately concerning its management
- describe some of the frequently encountered tumors of the soft tissues and bone in children
- identify measures used for the control of caries
- identify nutritional considerations for the pediatric patient
- understand the goals of pharmacologic behavior management techniques
- know the American Academy of Pediatric Dentistry guidelines for the elective use of conscious sedation, deep sedation, and general anesthesia in pediatric patients
- know the indications and contraindications for the use of nitrous oxide analgesia
- determine when pulpotomy or pulpectomies are the treatment of choice
- choose appropriate medicaments for pulp capping and pulpotomy procedures
- understand the reasons for failure of pulp therapy
- identify and discuss various fixed and removable prosthetic devices for the transitional and permanent dentition
- discuss various materials used for mouth guards
- understand basic growth concepts
- examine the face in a systematic manner
- describe primary and permanent molar relationships

Periodontics (NAVEDTRA 10758-C) New Course 2011

9 Assignments, 18 retirement points, 54 continuing education credits.

Text: *Carranza's Clinical Periodontology*, 10th edition, by Michael G. Newman, Henry Takei, Fermin A. Carranza and Perry R. Klokkevold, published by the W.B. Saunders Company, 2006.

Limited text availability. Please enter a second choice when applying.

Upon completion of the course you should be able to:

- understand the impact of evidence-based medicine in periodontics
- understand the impact of errors in treatment planning
- understand the importance of determining an accurate periodontal prognosis
- understand the issues related to the management of periodontal health in the aging patient
- understand the influence on genetics on periodontal disease
- understand the role of immunity in periodontal disease
- understand the influence of tobacco use on periodontal disease
- discuss the role of systemic diseases in the development of periodontal diseases
- discuss the potential association between periodontal diseases and coronary heart diseases, stroke, diabetes, pregnancy, chronic pulmonary diseases
- discuss the various causes of halitosis
- describe clinical characteristics and microscopic changes associated with gingivitis
- identify drugs commonly associated with gingival enlargement
- identify common gingival diseases and conditions associated with childhood
- classify patients with chronic periodontitis depending on extent and severity
- describe the systematic and organized steps in gathering information needed for the evaluation of the periodontal patient
- understand the risk factors for periodontal disease
- formulate a treatment plan based on patients' medical status

- understand the importance of proper plaque control
- understand the importance of proper instrumentation for scaling and root planning
- list the benefits of orthodontics treatment in the adult periodontal patient
- know the indications for various flap designs used to get access to the periodontal pockets
- know and understand the benefits and limitations of computer assisted technologies
- understand ethical responsibilities of general practitioners in the treatment of periodontal diseases

Video Series

This series consists of video programs by Naval Postgraduate Dental School staff and guest lecturers on subjects of interest to dentists on active duty. The series provides dentists with an alternative form of continuing education that will enable them to provide better dental care. These videos are available to all Federal agency dentists. No costs are involved except possible postage costs when returning materials.

Retirement points are not given for video courses. Instead, continuing education (CE) credits will be granted.

DVD format is available. The programs may be used on an individual or group basis. A post-test must be taken in order to receive CE credits. You must achieve a passing grade of at least 3.4 on the test and return the video to the Naval Postgraduate Dental School before a completion letter can be issued. In order to award credit for CE courses the ADA and AGD require self-instructional programs to be at least one hour in length. Therefore, at times, we have combined tapes containing similar content into one program.

Please see each video description for the length of the video, instructional format, number of CE credits granted, and date produced.

Infection Control in Dentistry

Federal agency dentists may enroll in the on-line course administered by the Indian Health Service. <http://www.ihs.gov/MedicalPrograms/DentalCDE/index.cfm>

Please contact Dr. Mary Beth Kinney at Marybeth.Kinney@Comcast.net

Nitrous Oxide Sedation: Pain Control, Equipment and Techniques

The US Navy Dental Corps designates this activity for 2 continuing education credits. (87 minutes, lecture, 2008)

This videotape program presents the history and background of nitrous oxide sedation. It covers the stages of sedation, properties of nitrous oxide, contraindications, potential complications, and equipment used. The purpose of the program is to review vital information concerning the proper use of nitrous oxide sedation. This program is of most benefit to those dentists who are credentialed to use nitrous oxide and would like to review information on the topic. Also, auxiliary personnel who assist dentists in using nitrous oxide would benefit from the program.

Completing this course does not mean you are credentialed to deliver nitrous oxide analgesia at your facility. Inquire at your facility for credentialing information.

After viewing this videotape you should be able to:

- discuss physiologic monitoring and the equipment used in such monitoring
- describe the basic components of inhalation sedation equipment
- discuss the function of each of the basic components of inhalation sedation equipment
- list the indications and contraindications for the use of nitrous oxide-oxygen inhalation sedation

- list the complications associated with nitrous oxide-oxygen inhalation sedation
- discuss the prevention, recognition, and management of these complications

Presenter: Lieutenant Commander Mark Boone, DC, USN; BS, United States Merchant Marine Academy; DMD, University of Kentucky College of Dentistry; MS, Indiana University; Diplomate, American Board of Pediatric Dentistry

Orofacial Pain – Differential Diagnosis, Co-morbid Diagnosis and Mimickers

The US Navy Dental Corps designates this activity for 2 continuing education credits. (65 minutes, lecture, 2003)

This program consists of a CD ROM focusing on co-morbid diagnosis and mimickers of orofacial pain in patients.

After viewing this CD ROM you should be able to:

- identify common mimickers of orofacial disorders
- explain and recognize when to refer patients to dental, medical, and paramedical colleagues

Presenter: Captain A. Dale Ehrlich, DC, USN; DDS, Indiana University School of Dentistry; MS, University of Wyoming; Diplomate, Federal Services Board of General Dentistry; Diplomate, American Board of Orofacial Pain.

Periodontal Plastic Surgery

The US Navy Dental Corps designates this activity for 2 continuing education credits. (50 minutes, lecture, 1998)

This videotape program has been produced in order to assist the clinician in treatment planning patients for root coverage procedures and to demonstrate one particular technique via live surgery.

After viewing this videotape you should be able to:

- classify gingival recession according to Miller's criteria
- be able to predict the amount of obtainable root coverage based on this classification
- describe the surgical techniques currently available to treat gingival recession and those techniques which have fallen out of favor
- discuss the indications for using either a pouch procedure or a pedicle flap in conjunction with connective tissue grafting
- discuss the proposed advantages of using a membrane in association with a coronally positioned flap
- describe the surgical technique used to perform a coronally positioned flap and one approach to harvesting a connective tissue graft
- list appropriate post-operative instructions that should be discussed with the patient

Presenter: Commander Brian Paul, DC, USN; DMD, University of Pennsylvania; Certificate in Periodontics, Naval Postgraduate Dental School; Diplomate, American Board of Periodontology

Biopsy Principles and Techniques

The US Navy Dental Corps designates this activity for 1 continuing education credits. (23 minutes, lecture, 2011)

This videotape program consists of a CD ROM focusing on the principles and techniques of biopsies of the oral cavity.

After viewing this CD ROM you should be able to:

- explain the different types of biopsies, their limitations and their different indications
- explain when to biopsy an oral lesion
- explain the basic anesthesia considerations and operative techniques of biopsies
- explain the importance of proper specimen handling, fixative media and labeling

Presenter: Lieutenant Commander Michael Ray, DC, USN; DDS, Baylor College of Dentistry, Certificate in Oral and Maxillofacial Surgery, Baylor College of Dentistry and Baylor University Medical Center, Diplomate, American Board of Oral and Maxillofacial Surgery.

Link to [application](#)