RESTORATION OF HEALTH (REHE)

REHE 120. Introduction to Radiography. 1.5 Unit.
Foundation course consisting of lectures and laboratory covering basic principles of radiography. Included are: instructions on taking intraoral radiographs, radiation physics involved in x-ray generation and the parts and function of the x-ray unit, radiation biology of x-ray interaction with tissue, head and neck anatomy and pathology with regards to radiographic interpretation. Each student will have clinic rotations.

REHE 151. Dental Anatomy. 3 Units.
The didactic portion of the course describes the anatomy of the masticatory structures with an emphasis on teeth, deciduous and permanent.

REHE 152. Basic Procedures in Fixed Prosthodontics. 1 Unit.
This course will develop and build core elements vital to Fixed Prosthodontics, specifically related to single unit restoration. The course will place an emphasis on the following topics: clinical indications and application of the single unit restoration, principles of engineering of abutment preparations, preparation designs, soft tissue management, provisional and definitive restorative materials, clinical progression and treatment sequence for the cementation of provisional and definitive fixed partial denture.

REHE 153. Dental Anatomy Laboratory. 1 Unit.
In the laboratory, students will develop the psychomotor skills necessary to reproduce the functional morphology of permanent teeth.

REHE 154. Basic Procedures in Fixed Prosthodontics Lab. 1 Unit.
Laboratory component of REHE 152.

REHE 156. DentSim Laboratory. 1 Unit.
This course covers the criteria, techniques and practice of preparing 'ideal/standard' operative preparations. The restorative procedures will be performed on typodont teeth mounted in a computer assisted simulator (DentSim).

REHE 158. Dental Materials I. .5 Unit.
This is a didactic course that defines and describes properties, composition, indications and contraindications of used of different dental materials.

REHE 162. Basic Procedures in Restorative Dentistry I. .5 Unit.
This course introduces students to the criteria, the techniques for, and practice of preparing 'ideal/standard' Class I and V (and possibly Class II) operative preparations. In this course, the emphasis will be on the more traditional posterior amalgam Class I and V preparations. Students will be introduced to basic concepts of preparation design and amalgam restorations. In addition, the composition and properties of amalgam will be mentioned (however, the Dental Materials I Course will provide the basic information regard this material.) The restorative procedures will be performed on typodont teeth mounted in a simulator. The emphasis will be on traditional preparation design and execution.

REHE 172. Basic Procedures in Restorative Dentistry I Lab. 1 Unit.
Laboratory component of REHE 162.

REHE 252. Pain Control. 1 Unit.
This course consists of lectures, demonstrations and clinical participation for the undergraduate dental student to become informed and trained in the safe and effective use of local anesthetics in dentistry. The students will also learn the pharmacology and clinical application of these agents in the control of pain and anxiety.

REHE 253. Basic Procedures in Esthetics. 1 Unit.
This course provides formal lecture presentations and laboratory exercises to introduce the students to basic operative procedures for direct composite resin restorations.

REHE 254. Pharmacology. 4 Units.
This course is a basic introduction to the principles of pharmacology and to drug classes of particular relevance to dentistry. Drugs used in other medical areas will also be reviewed. Information concerning drug doses is NOT included. Information concerning calculations used in determining doses WILL BE included.

REHE 256. Radiologic Interpretation. 1 Unit.
Follow-up course to Introduction to Radiography, with a primary focus on Radiographic Interpretation, consisting of lecture and laboratory covering basic principles of radiography, interpretation and diagnosis. Each student will have a clinic rotation.

REHE 257. Prosthodontic Technology. 2 Units.
The didactic portion of the course relates not only the theory of complete denture construction, but also the human elements that are involved. This includes the physical dental examination, evaluation of the patient's needs and descriptions of the various procedures needed to successfully rehabilitate an edentulous patient.

REHE 258. Principles of Treatment Planning I. 1 Unit.
This course provides an advanced teaching concept called Flipped Classroom. The flipped classroom is a teaching module model in which the typical lecture and homework elements of a course are reversed. Short video lectures are viewed by students at home before class sessions, while in-class time is devoted to exercises, projects, or discussions (we refer to these as LEARNING MODULES). The video lecture is often seen as the key ingredient in the flipped approach. Such lectures are created by the instructor and posted online.

REHE 259. Basic Procedures in Fixed Prosthodontics II. 1 Unit.
This course builds upon those core elements covered in REHE 152/154. Emphasis on principles of engineering for fixed partial dentures, preparation and design of fixed partial dentures, considerations for the restoration of endodontically involved teeth, and definitive and provisional fixed partial denture restorations. Introduces dental material topics related to fabrication of a fixed partial denture restoration, including: chemicomechanical soft tissue retraction, die spacers, investments, casting and casting alloys, ceramics, soldering, provisional materials, prefabricated and custom post and core systems. Emphasis on principles of engineering for fixed partial dentures, preparation and design of fixed partial dentures, considerations for the restoration of endodontically involved teeth, and definitive and provisional fixed partial denture restorations. Introduces dental material topics related to fabrication of a fixed partial denture restoration, including: chemicomechanical soft tissue retraction, die spacers, investments, casting and casting alloys, ceramics, soldering, provisional materials, prefabricated and custom post and core systems.

REHE 260. Basic Procedures in Fixed Prosthodontics III. .5 Unit.
This course builds upon those core elements covered in REHE 152/154 and REHE 259/269. Emphasis on principles of engineering for fixed partial dentures, preparation and design of fixed partial dentures, considerations for the restoration of endodontically involved teeth, and definitive and provisional fixed partial denture restorations. Introduces dental material topics related to fabrication of a fixed partial denture restoration, including: chemicomechanical soft tissue retraction, die spacers, investments, casting and casting alloys, ceramics, soldering, provisional materials, prefabricated and custom post and core systems. Emphasis on principles of engineering for fixed partial dentures, preparation and design of fixed partial dentures, considerations for the restoration of endodontically involved teeth, and definitive and provisional fixed partial denture restorations. Introduces dental material topics related to fabrication of a fixed partial denture restoration, including: chemicomechanical soft tissue retraction, die spacers, investments, casting and casting alloys, ceramics, soldering, provisional materials, prefabricated and custom post and core systems.

REHE 262. Basic Procedures in Restorative Dentistry II. 1 Unit.
This course, together with the first year Intro to BP Operative Dentistry and the BP Esthetic Dentistry Course covers the criteria, the techniques for, and practice of preparing 'ideal/standard' operative preparations and placement of operative restorations. In this portion of the course, the emphasis will be on posterior Class II amalgam preparations and restorations, as well as an introduction to cast gold inlay and onlays, and an introduction to CEREC (CEramic REConstruction) Onlays. Students will be introduced to basic cariology and radiology as it relates to operative dentistry. In addition, the composition and properties of the following materials will be reviewed: amalgam, liners and bases, and gold. The Dental Materials Course will provide the basic information regarding these materials. The restorative procedures will be performed primarily on typodont teeth mounted in a simulator. Extracted teeth with caries will also help students appreciate the different tactile responses of caries, dentin and enamel. There will be an emphasis on the following: the rationale for types of preparations and materials, indications and contraindications for different materials and types of restorations, and clinical problem solving related to operative dentistry in total treatment care.

REHE 263. Basic Procedure in Esthetics Lab. .5 Unit.
Preclinical component of REHE 253. Basic Procedures in Esthetic Dentistry.

REHE 264. Endodontics. .5 Unit.
The didactic and preclinical curriculum covered in endodontics in REHE 264 and followed in DSRE 391 provides the major endodontic treatment information for this program. Specific subjects covered are diagnosis, pulp and periapical pathosis, radiology, pharmacology, anesthesia, pain management, emergency treatment, pulp treatment, trauma, mechanical innovations, apexification, bleaching, endodontic-periodontal complexities, preparation of endodontically treated teeth, and endodontic surgery. The above information is designed to provide the student with a basic understanding of the field of endodontics.

REHE 266. Partial Denture Design. 3 Units.
This course covers the second subcategory of removable dentures with the Complete Dentures course REHE 257/267. The title "Removable Partial Denture Technology" in fact covers a very vast field of skills and knowledge required for the fabrication of a removable partial denture in collaboration with the dental laboratory and the dentist. Its preliminary assessment and diagnostic requirements make it very close to oral diagnostic sciences; preprosthetic radiographic, surgical, periodontal and endodontic considerations make it very close to these disciplines as much as it is a restorative/rehabilitative procedure. As the design and construction of a metal framework is quite a hard topic to fully understand and master, while a must for being a successful general dentist, the course will mainly emphasize removable partial denture design. The skills and competencies obtained from the previous removable dentures course will help students to understand some of the components of removable partial dentures so that the course will be focused on other components peculiar to removable partial dentures.

REHE 267. Prosthodontic Technology Lab. 2 Units.
The laboratory phase is the hands-on course where the student will go through the technique of construction of a complete maxillary and mandibular denture. This will include both a traditional and implant supported overdenture project.

REHE 268. Basic Procedures Competency. 2 Units.
This course will build on the basic techniques learned in the previous basic procedure courses and aims to prepare the students for their clinical experience.

REHE 269. Basic Procedure Fixed Prosthodontics II Lab. 1.5 Unit.
Laboratory component of REHE 259-1.

REHE 270. Basic Procedure Fixed Prosthodontics III Lab. 1 Unit.
Laboratory component of REHE 259.

REHE 272. Basic Procedures in Restorative Dentistry II Lab. 1 Unit.
Laboratory component of REHE 262.

REHE 274. Endodontics Lab. 1 Unit.
Laboratory component of REHE 264

REHE 276. Partial Denture Design Lab. 2 Units.
Laboratory component of REHE 266.

REHE 351. Surgical Periodontics. 1 Unit.
The course consists of didactic and clinical instruction that provides the student with knowledge of the various types of surgical therapy performed by periodontitis in the management of patients with various periodontal disease conditions. Includes discussion on types of surgery, points of periodontal intervention and when to refer patients to periodontal surgery.

REHE 353. Principles of Treatment Planning II. 1 Unit.
This course provides lecture presentations to help prepare the student to deal with their patients from the standpoint of patient management and treatment planning. The lectures will guide the students through the thought processes necessary in the development of workable treatment plans. The emphasis will be on exposing the students to principles of treatment planning, integrating evidence based dentistry. The lectures will emphasize the steps and sequencing approach to treatment planning and will include the concept of decisional analysis. This course utilizes knowledge the students have acquired from previous classes.

REHE 355. Esthetic Dentistry. 1 Unit.
This course provides formal lecture presentations and laboratory exercises to familiarize the students to various esthetic dental materials and techniques to achieve optimal esthetic results.

REHE 358. Dental Materials II. .5 Unit.
This is a didactic course that defines and describes properties, composition, indications and contraindications of uses of different dental materials

REHE 360. Implant Dentistry. 1 Unit.
The course is designed to introduce the third year dental students to the concepts of dental implantology. Students will be introduced to computer guided dental implant treatment planning program Nobel Clinician. This course will provide didactic and laboratory instructions for the students to be able diagnose, treatment plan and restore a patient who needs a single implant.

REHE 362. Clinical Application of CAD/CAM Technologies. .5 Unit.
This course covers the criteria, techniques and practice of using CAD/CAM technologies in the clinical environment. In this course, emphasis will be on ceramic restorations made by Cerec (Sirona), as well as an introduction to different options of CAD/CAM machines available in the market. Students will be introduced to an advanced level of expertise in using the latest Cerec software in a variety of clinical applications. There will be also emphasis on the rationale for types of preparations and material selection based on the correct clinical indication.

REHE 400. Regional Board Preparation. .5 Unit.
The purpose of this course is to prepare the dental student to challenge a clinical licensing board examination. The students will be examined on the appropriate licensing board materials, and patient clinical activities. Students will be given formative feedback on typodont exercises as needed for their licensing examination.

REHE 413. Advanced Implant Dentistry I. 1 Unit.
This course is designed to expose the student to advance implant therapies for the dentate and edentulous patient. Through lectures and discussions the students will be demonstrated the multitude of variations of care available for these patients and the restorative processes necessary to delivery that care. Limitations of each of these modalities will be thought. Guidelines of dental implant therapy allowing them to provide most appropriate treatments will be given.

REHE 414. Advanced Implant Dentistry II. 1 Unit.
This course is designed to expose students to advanced implant treatment options that are available for the partially and fully edentulous patients. Through lecture, discussions and treatment planning sessions students will be exposed to the multitude of treatment options available for the patients and the restorative processes necessary to successful treatment completion. They also will understand the limitations of each of these modalities within the scope of dental implant therapy allowing them to provide the most appropriate treatment direction for their patients.

REHE 453. Principles of Treatment Planning III. 1 Unit.
Treatment Planning III is designed to permit participation by the student-doctor in the steps in developing a treatment plan. The initial sessions will review data gathering, data interpretation, creating diagnoses and developing both a definitive and alternate treatment plans. Students will be provided with case studies which will be the basis for discussion. Utilizing the preceptor groups, we will stress the analysis of data and the use of the results to develop both diagnoses and treatment plans.

REHE 455. General Anesthesia, Oral Surgery. .5 Unit.
The didactic curriculum provides a general background in the pharmacologic, physiologic and clinical aspects of moderate and deep conscious sedation and general anesthesia as may be applicable for oral and general surgery.

REHE 482. Orthodontics. 1 Unit.
Senior orthodontics provide instruction enabling the dental student to gain judgment, knowledge and skills to select and treat uncomplicated tooth irregularities in children and adults. The student is also versed in the technique of intra- professional communication and referral. In addition, advanced topics in comprehensive orthodontics, e.g. ortho-surgical problems, orthodontic management, and orthopedic treatment, mixed dentition treatment and functional appliance therapy are discussed.

REHE 488. Case Presentations I. 1 Unit.
First Semester of Case Presentation is dedicated to the review example of comprehensive treatment planning material in preparation for the written Western Regional Board, Northeast Regional Board Dental Simulated Clinical Examination and the Case Based Examination (CBE) and case based questions from the National Boards Part II, by discipline. Selected case studies will be presented by the faculty that demonstrates comprehensive care and evidence based dentistry. These cases will be presented in lecture format utilizing Online questions relating to the case will be asked during each presentation. Clinical techniques germane to the various case reports will be presented as needed.

REHE 489. Case Presentations II. 1 Unit.
First Semester of Case Presentation is dedicated to the review example of comprehensive treatment planning material in preparation for the written Western Regional Board, Northeast Regional Board Dental Simulated Clinical Examination and the Case Based Examination (CBE) and case based questions from the National Boards Part II, by discipline. Selected case studies will be presented by the faculty that demonstrates comprehensive care and evidence based dentistry. These cases will be presented in lecture format utilizing Online questions relating to the case will be asked during each presentation. Clinical techniques germane to the various case reports will be presented as needed.