REHE 151. Dental Anatomy. 3 Units.
Descriptive anatomy of masticatory structures with emphasis on deciduous and permanent teeth and the temporomandibular-mandibular movements, and the fundamental concepts of the functional relationships between the dentition and the temporomandibular joint. Lectures on comparative anatomy and variations in tooth morphology.

REHE 152. Basic Procedures in Fixed Prosthodontics. 1 Unit.
To introduce and familiarize the dental student to basic principles related to fixed prosthodontics. The introduction will emphasize principles of engineering and preparation designs, full coverage retains for both metal and ceramic restorations.

REHE 153. Dental Anatomy Laboratory. 1 Unit.
Companion preclinical component to REHE 151. Laboratory exercises and assignments include drawings, waxups, tooth identification, and use of semi-adjustable articulator.

REHE 154. Basic Procedures in Fixed Prosthetics 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.
The primary goal is to introduce basic material science concepts needed to evaluate, compare and select materials for a specific application. Knowledge of properties, indications and limitations of different clinical and laboratory materials will be presented. The effect of manipulation variables on material properties will be emphasized.

REHE 162. Basic Procedures in Operative Dentistry I. .5 Unit.
This course, together with REHE 172 introduces students to the criteria, the techniques for, and practice of preparing 'ideal/standard' Class I and V operative preparations. In this course, the emphasis will be on the more traditional posterior amalgam Class I and Class V Preparations. Students will be introduced to basic cariology and radiology as it relates to operative dentistry. In addition, the composition and properties of amalgam will be reviewed in the Dental Materials Course. The restorative procedures will be performed primarily on typodont teeth mounted in a computer assisted simulator. The emphasis will be on traditional preparation design and execution.

REHE 172. Basic Procedures in Operative Dentistry I Lab. .5 Unit.
Laboratory component of REHE 162.

REHE 229. Introduction to Radiography. 1.5 Unit.
Initial course consisting of lecture 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 a clinic rotation.

REHE 252. Pain Control. 1 Unit.
Anatomy pertaining to local anesthesia. Drugs used in local anesthesia and technique of administration. Management of complications. Slides and clinical demonstrations.

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 introduces students to the principles of pharmacology and to the mechanisms of drug action in the context of common disease states.

REHE 256. Radiologic Interpretation. 1 Unit.
This is a continuation of REHE 229. Follow up course to Imaging Principles and Techniques 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.
A lecture-demonstration-laboratory approach to complete denture prosthesis construction. Emphasis on certain fundamental biological considerations of the edentulous patient, such as the oral membranes, muscles, bones, and phonetics and how they relate to the technical aspects of denture constructions.

REHE 258. Principles of Treatment Planning I. 1 Unit.
This course provides lecture presentations to help prepare the student to develop skills in patient diagnosis 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 the approach used in our clinic of providing the patients with options of optimal, alternative and emergency diagnostic or recall treatment plans using decisional analysis.

REHE 259-1. 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: chemomechanical 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: chemomechanical soft tissue retraction, die spacers, investments, casting and casting alloys, ceramics, soldering, provisional materials, prefabricated and custom post and core systems.
REHE 259-2. 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: chemomechanical 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: chemomechanical soft tissue retraction, die spacers, investments, casting and casting alloys, ceramics, soldering, provisional materials, prefabricated and custom post and core systems.

REHE 260-1. Basic Procedure Fixed Prosthodontics II Lab. 1 Unit.
Laboratory component of REHE 259.

REHE 260-2. Basic Procedure Fixed Prosthodontics II Lab. 1 Unit.
Laboratory component of REHE 259-1.

REHE 262. Basic Procedures in Operative 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 the 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.

REHE 264. Endodontics .5 Unit.
Introduction to methods and materials necessary for successful root canal therapy.

REHE 266. Partial Denture Design. 2 Units.
Recognition of clinical situations that require partial denture therapy are developed. Introduction to the terms used in removable partial prosthetics. Partially edentulous casts diagnosed, designed, surveyed, contoured for path of insertion, prepared for rest seat areas, and finally tripoded for further orientation by each student on his or her own casts. Thus the design, surveying, and clinical applications for removable partial service are presented in order to maintain optimal oral health conditions and to provide a sound basis for the prosthesis.

REHE 267. Prosthodontic Technology Lab. 2 Units.
Companion preclinical component to REHE 257. Each student constructs a complete set of dentures using laboratory manikin as patient. Although REHE 267 was conceived as a technique course, one of its principal objectives is to prepare the student for the clinical aspect of dental education.

REHE 268. Basic Procedures Competency. 1.5 Unit.
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 272. Basic Procedures in Operative Dentistry II Lab. 1 Unit.
Laboratory component of REHE 262.

REHE 274. Endodontics Lab. 1 Unit.
Companion laboratory component to REHE 264. Complete endodontic treatment performed by each student on extracted teeth using gutta percha.

REHE 276. Partial Denture Design Lab. 1.5 Unit.
Theories of removable partial denture construction which enable the student to perform exercises that are associated with the techniques used to achieve a successful result. Students will be evaluated by various testing methods.

REHE 351. Surgical Periodontics. 1 Unit.
Case analysis and treatment planning for various conditions of periodontal disease. Case presentation to patients. Basic surgical technique and advanced types of periodontal surgery demonstrated. Occlusal analysis and occlusal adjustment considered.

REHE 353. Principles of Treatment Planning II. 1 Unit.
This course provides formal instruction designed to prepare the students for patient management, practice management, and treatment planning. Emphasis on devising optimal, alternative and emergency diagnostic treatment plans.

REHE 355. Esthetic Dentistry. 1 Unit.
Lectures and demonstrations. The indications, contraindications, limitations, and use of modern techniques and materials in esthetic dentistry.

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.
Didactic and laboratory instruction that introduces the concepts used in implantology. These include the scientific basis of implant tissue reactions, and the surgical and restorative protocols. Emphasis is placed on slide presentation of actual cases. An opportunity is given to students to place an implant in an artificial mandible and to manipulate implant components on a typodont.

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 400-1. 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 400-2. 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 student will discover the multitude of variations of care available for these patients and the restorative processes necessary to delivery that care. They should also more fully understand the limitations of each of these modalities within the scope of dental implant therapy allowing them to provide for their patients the most appropriate treatment direction.

REHE 414. Advanced Implant Dentistry II. 1 Unit.
This course is a continuation of Advanced Implant Dentistry I and consists of a small group PBL Project where each group will be challenged with a patient requiring complex care. The group will be expected, utilizing all of their four years of training, to fully diagnosis the patient’s problems and create multiple treatment plans to assist the patient’s return to oral health. They will finally present and defend their decision to the entire class and instructors.

REHE 421. Periodontal Medicine and Cases. 1 Unit.
Further application of the knowledge and skills learned in prior periodontal courses. Focus is on how selective periodontal treatment can be integrated into a treatment plan considering the parameters presented by a special situation. Some examples are treatment related to endodontics, prosthodontics, geriatrics, esthetics, orthodontics and implantology.

REHE 455. General Anesthesia, Oral Surgery. .5 Unit.

REHE 482. Orthodontics. 1 Unit.
Instruction through lectures and audio-visual programs enabling the student to gain judgment, knowledge, and skills to select and treat uncomplicated tooth irregularities in children and adults. Advanced topics in comprehensive orthodontics, such as surgical orthodontics and cleft-palate treatment.

REHE 488. Case Presentations I. 1 Unit.
First Semester of case presentation is dedicated to the review of comprehensive treatment planning slide material in preparation for National Boards part II and the Northeast Regional Board Dental Simulated Clinical Examination DSCE and the Case Based Examination (CBE) and the Western Regional Board (WREB) treatment planning examinations. Cases treated in the CASE SODM clinics will be reviewed by the preceptor faculty along with clinical specialty faculty and biological science faculty where appropriate. Diagnostic information will be on Blackboard preceding the schedule case review. During the case review questions will be presented for all students to interject through either the PRS format or Blackboard. In addition to the interactive format three disciplined based quizzes will be provided. The semester final will present a case based problem similar to the regional boards in which students identify the components of the diagnosis, treatment plan, treatment modifiers, treatment sequence and prognosis.

REHE 489. Case Presentations II. 1 Unit.
Second Semester. This course provides formal lecture presentations in the discipline of comprehensive dental care to assist students in the development of appropriate and successful diagnoses and treatment plans and the use of techniques and technology to achieve the goals of optimal dentistry. The course provides examples of cases in diagnosis and treatment planning in lecture, and include expertise from other departments in both the clinical and basic biological sciences. This course also provides the methodology for the treatment of moderate to severely mutilated dentitions and information regarding treatment modalities used related to the cases under discussion. The treatment plans are to be evidence based and used in concert with the outcomes of treatment. Techniques and Technology associated with the case shall be described as cases are reviewed. Both didactic lecture presentations and case reviews will utilize the interactive questioning and survey opportunities as needed through either the PRS format or Blackboard. The semester grade will be based on participation in the interactive sessions, a case based examination and each student is to turn in a fully documented senior case that is both diagnostic and treatment demanding. All cases will be approved prior to being considered as an acceptable senior case.