

**J. Sargeant Reynolds Community College  
Course Content Summary**

**Course Prefix and Number: DNL 137**

**Credits: 3**

**Course Title:** Pedodontic and Orthodontic Appliances

**Course Description (including lecture hours, lab hours, total contacts)**

Develops student's ability to fabricate and repair pedantic and orthodontic appliances. This laboratory-didactic course utilizes programmed instruction augmented by individualized assistance and demonstration. Students observe fabrication procedure demonstrations and receive one-on-one instruction during part of the laboratory sessions. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

**General Course Purpose**

Students must be capable of fabricating orthodontic and pedodontic appliances in order to function as dental lab technicians in commercial dental laboratories.

**Course Prerequisites/Corequisites** (*Entry-level competencies **required** for enrollment*)

General admission to the college. Students must interview with the program head to determine interest, motivation and aptitudes in dental lab technology.

**Course Objectives**

Upon completing the course, the student will be able to:

- a. demonstrate a knowledge of the terminology and nomenclature as it relates to orthodontic and pedodontic appliances.
- b. demonstrate proficiency in contouring orthodontic wire
- c. show proficiency in repairing and constructing basic orthodontic and pedodontic appliances.
- d. demonstrate knowledge in the various types of malocclusions.

**Major Topics to be Included**

- a. Case Studies of Normal Occlusions and Malocclusions, Work Authorizations
- b. Fundamentals of Wire Bending, Practice Contoured Labial and Lingual Archwires
- c. Circumferential, Ball, Adams Fabrication
- d. Soldering and Welding Techniques
- e. Construction of Max. Hawley Appliance
- f. Construction of Max. Holding, Fixed Lingual Arch and Space Maintainer
- g. Appliance Repair
- h. Orthodontic Study Models and Concepts of Functional Appliances

**Effective Date of Course Content Summary (Month, Date Year):** Aug. 22, 2008