

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

Course Prefix and Number: DNL 137

Credits: 3

Course Title: Orthodontic and Pedodontic Appliances

Course Description: Develops student's ability to fabricate and repair pedodontic 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 and Co-requisites:

Prerequisites: 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; and
- 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: August 22, 2008