To fulfill the requirements for a DANB Level 1: Entry Level training program, this syllabus integrates the foundational sciences, legal requirements specific to Wyoming, and comprehensive instrument identification across major dental specialties.

Course Title: Dental Assisting Professional Model – Level 1

Target Certification: National Entry Level Dental Assistant (NELDA)
Standard Reference: DANB Dental Assisting Professional Model

Module 1: Foundations of Dental Science Day 1 & 2

- **History of Dentistry:** Evolution of the profession from ancient practices to modern digital workflows and the development of the Dental Assisting National Board (DANB).
- **Dental Terminology:** Mastery of root words, prefixes, and suffixes; orientation to terms for anatomy, infection control, and restorative charting.
- **Dental & Oral Anatomy:** Study of the head and neck, including the skull bones, salivary glands, and the temporomandibular joint (TMJ).
- **Tooth Morphology:** Identification of the four types of teeth, their design, function, and the primary vs. permanent dentition.
- **Dental Ethics and Law in Wyoming:**
    - **Wyoming Board of Dental Examiners Rules:** Scope of practice for dental assistants in Wyoming, including specific certifications for Pit and Fissure Sealants and Radiation Safety.
    - **Professional Ethics:** Knowing Right From Wrong And doing right even when no one is watching.
    - HIPAA compliance, informed consent, and the legal responsibilities of the chairside assistant.
- Module 3: Chapters 19, 20, 21, 22, 23
- Dental caries, periodontal disease, preventative dentistry, nutrition, and oral pathology, and
- coronal polishing.
- Objective: Students will gather an understanding of preventive techniques, proper brushing and flossing. How nutrition plays a big role in oral decay.
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- Module 4: Disease processes in the Oral CavityLecture and discussion: Chapters 13, 14, 15, 16, 17, 58: Disease transmission, disinfection, instrument processing and sterilization, regulatory agencies, and chemical waste management.
- Objective: Students will gain knowledge of the importance of infection control and prevention of disease transmission along with sterilization and disinfecting procedures, and chemical waste management. HIPAA, CDC, and OSHA regulations will be discussed.

Module 5: Dental Radiography Day 3 & 4

Lecture and discussion: Chapters 38, 39, 41, 42:
Introduction to radiography, equipment, digital and traditional radiographs.
Objective: Students will gather an understanding of equipment used in taking radiographs. Exposure, processing, and mounting x-rays. The dangers of radiation to both patient and operator
will be discussed.
Student will gather an understanding of both digital and traditional radiographs and identifying
intraoral and extraoral radiographs

Module 6: Dental Instrumentation & Procedures

This module focuses on the identification, care, and sequential use of instruments across dental specialties.

Group A: Restorative Dentistry (Fillings)

Lecture notes:

1. Define Restorative Dentistry
2. Reasons for providing this care

- **Examination:** Mouth mirror, explorer (shepherd's hook), and cotton pliers.
- **Preparation:** High-speed and low-speed handpieces, burs, and spoon excavators for removing decay.
- **Placement & Shaping:**
    - **Amalgam:** Amalgam carrier, well, condensers/pluggers, and burnishers (ball, acorn, or football shapes).
    - **Composite:** Non-stick plastic filling instruments, titanium nitride (TiN) carvers, and matrix retainers (Tofflemire).
- video

Group B: Endodontics (Root Canals)

- **Access:** Endodontic access burs and Endo Z burs (non-cutting tip) to reach the pulp chamber.
- **Cleaning & Shaping:** Barbed broaches for pulp removal; K-files, C-files, and rotary NiTi files for widening canals.
- **Obturation:** Spreaders and pluggers to compact gutta-percha; paper points for drying.
- video

Group C: Oral Surgery (Extractions)

- **Tissue Management:** Periosteal elevators to reflect the gingiva; hemostats for controlling bleeding.
- **Luxation:** Straight and Cryer elevators to loosen the tooth from the periodontal ligament.
- **Removal:** Extraction forceps (maxillary and mandibular specific).
- **Post-Extraction:** Bone rongeurs for smoothing sharp bone edges and surgical curettes for cleaning the socket.
- Video

Suggested Video Resources

- **Introduction to Specialties:** The Ten Dental Specialties provides a high-level overview of recognized ADA specialties.
- **Restorative Procedures:** Search for "Class II Composite Restoration Step-by-Step" to see matrix band placement and instrument sequencing.
- **Endodontic Workflows:** Look for "Rotary Endodontics Demonstration" to understand the use of NiTi files and apex locators.
- **Surgical Techniques:** Search for "Dental Extraction Instrument Sequencing" for a visual guide on transitioning from elevators to forceps.

The Ten Dental Specialties
This video provides a comprehensive overview of the different fields within dentistry, helping students understand the various roles and procedures they will assist with.