Dental Laboratory Technology

PROGRAM SUMMARY
- It’s an exciting time to enter the dental field with new digital techniques, materials, and equipment.
- Dental laboratory technology is the art and science of the fabrication of corrective devices and replacements for natural teeth.
- The course covers five specialties of dental laboratory technology: complete denture, partial denture, crown and bridge restoration, porcelain and ceramics and orthodontics.
- A combination of science, art, skill and craftsmanship along with a complete comprehension of basic techniques, materials, anatomy and terminology will enable the students to fabricate an appliance from beginning to end.

COLLEGE CREDIT CONNECTIONS
- Erie Community College

SPECIAL NOTES
- Students are responsible for purchasing a lab coat.

PROGRAM ELIGIBILITY
- Technical Endorsement
- 3.75 Credits per Year
- Pathways to Graduation (CTE and CDOS)

Career Paths

PROFESSIONAL CAREERS
- Dentist
- Oral Surgeon
- Orthodontist

TECHNICAL CAREERS
- Dental Lab Technician
- Research and Development
- Dental Hygienist

ENTRY LEVEL CAREERS
- Dental Supply Company
- Dental Office
- Dental Assistant
UNIT 1
- SkillsUSA
- Laboratory Safety
- Oral Anatomy
- OSHA - Infection Control
- Tooth Morphology
- Dental Terminology

UNIT 2
- All Phases of Complete Dentures
- Denture Repairs
- Denture Border Anatomy
- Interim Partial / Flipper
- Interim Denture / Jiffy Denture
- Introduction to Orthodontics

UNIT 3
- Orthodontic Appliances
- Hawley Retainers
- Two Pour Models
- Crown and Bridge Restorations
- Waxing Inlays and Onlays
- Investing and Casting Inlays and Onlays
- Finishing / Polishing
- Temporary Crown
- Full Cast Gold Crown

UNIT 4
- Crown and Bridge Restorations
- Waxing 3-Unit Bridge
- Investing / Casting
- Finishing / Polishing
- Partial Denture Frameworks
- Introduction to Dental Laboratory Porcelains
- Introduction to Porcelain Fused to Metal

UNIT 5
- Dental Anatomy
- Oral Anatomy
- Complete Dentures II
- Characterization
- Light Curing Materials
- Success Injection System

UNIT 6
- Complete Dentures II
- Immediate Dentures
- Reline and Rebases
- Intro to Dental Implants
- Orthodontics II
- Soldering
- Removable Alignment Appliance
- Custom Mouth Guards
- Bleaching Trays

UNIT 7
- Crown and Bridge
- Disposable Articulation System
- Single Tray Impression System
- Waxing Copings
- Induction Casting
- Lite-Cast Coping
- Preparation of Coping
- Ceramics / Porcelain

UNIT 8
- Ceramics
- Addition of Porcelain
- Cosmetic Dentistry
- Intro to CAD / CAM
- Professional Interview
- Internship (3 Weeks on Site)
- 3 Shape Digital Design / Scanning and Zirconia Milling System