

## Dental Laboratory Technology

This program prepares students for employment as dental laboratory technicians whose major job includes construction and repair of all types of dental prosthetic appliances.

Course #	Course	Lecture	Lab	Externship	Hours
DLT101	Dental Morphology	60			60
DLT102	Dental Morphology Lab		140		140
DLT151	Crowns & Bridges I	60			60
DLT152	Crowns & Bridges Lab I		140		140
DLT161	Crowns & Bridges II	60			60
DLT162	Crowns & Bridges Lab II		140		140
DLT201	Dental Ceramics I	40			40
DLT202	Dental Ceramics Lab I		160		160
DLT211	Dental Ceramics II	40			40
DLT212	Dental Ceramics Lab II		160		160
DLT251	Complete Denture	30	70		100
DLT252	Partial Denture	30	70		100
	Total	320	880		1,200

- **DLT101 Dental Morphology** – This course provides the fundamentals of anatomical and physiological structure affiliated with cranial, facial, and inter-oral anatomy in relation with construction of fixed and removable prosthetic devices. Students also learn the interrelated structural movements of bones, muscles, and teeth.
- **DLT102 Dental Morphology Lab** – This course continues to provide more complex workings of anatomical and physiological structure affiliated with cranial, facial, and inter-oral anatomy in relation with construction of fixed and removable prosthetic devices.
- **DLT151, DLT161 Crowns and Bridges I, II** – This course offers comprehensive and specialized instructions in the design and fabrication of crown and bridge restorations with special emphasis on the techniques used in the area of cosmetic dentistry. Students learn the application of procedural steps in the lost wax process, casting and finishing both single and multi-unit restoration.
- **DLT152, DLT162 Crowns and Bridges Lab I, II** – Students learn tooth form and functional occlusion utilizing a full arch model and semi-adjustable articulator.
- **DLT201, DLT211 Dental Ceramics I, II** – This course helps students become proficient in the use of porcelain dental materials and its fabrication through hands-on training by learning

fundamental techniques for model, dye preparation, and case evaluation. This course covers opaque procedures, porcelain manipulation, basic shade control, firing cycles, and shaping and glazing single unit ceramic restorations utilizing metal ceramic technology.

- **DLT202, DLT212 Dental Ceramics Lab I, II** – Students learn how to construct metal ceramic restorations for multiple crowns and bridge work by learning multi-unit framework design, porcelain buildup, external and internal staining, corrections and additions, and fabrication of porcelain shoulder margin and laminate veneer. Students also learn pre- and post-soldering, troubleshooting, principles of color theory, and the use of the shade guide. Students comprehensively learn how to make a porcelain core using hard core refractory model techniques; how to build porcelain on the opaque cores; how to apply porcelain on veneering cases; how to prepare and develop porcelain inlays; how to transfer from refractory material to working model; how to make post firing corrections; how to stain and glaze; how to etch veneer for maximum bonding in porcelain veneering cases.
- **DLT251 Complete Denture** – This course provides how to use a variety of impression and gypsum materials, basic and fundamental techniques in the construction of gold and nickel-chromium partial dentures including elementary principles of survey and design, model preparation, and refractory cast production.
- **DLT252 Partial Denture Lab** – This course focuses on casts are used to practice dental procedures such as the fabrication of custom trays and temporary crowns. Students practice placement and removal of temporary sedative dressings on Typodont manikins according to RDA standards and learn techniques and procedural application of preformed patterns, investing, casting, and finishing metal frameworks.