

INSTRUCTIONS: In the template below, please enter your departmental information where indicated in blue (delete the text and replace with your department's information). If any area is not applicable to your department, you may delete the item (i.e., if you do not have specific resources for students to include here, please delete the text line prompt for student resources in your department). Also, upon completion, delete these instructions.

WHO WE ARE: RESTORATIVE DENTISTRY DEPARTMENT

As a member of Restorative Dentistry Department, you will join a group of students who are part of the School of Professional Studies at New York City College of Technology, City University of New York.

The Mission of the Department: "We Make Smiles"

What Do Dental Laboratory Technicians Do?

Dental Laboratory Technology is a unique profession combining the arts, such as: drawing, sculpting, etc., science, such as: chemistry, biomechanics, metallurgy, computer science, etc. and technology like CAD-CAM (Computer Aided Design – Computer Aided Manufacturing). In the field of dentistry, the role of the Dental Laboratory Technician is vital in applying the latest advances in dental materials and dental technologies to design and manufacture of dental prostheses. Furthermore, Dental Laboratory Technicians provide dentists with valuable knowledge base related to laboratory procedures and dental materials utilized for fabrication of dental appliances.

Since dental patients' needs vary greatly, the work of Dental Laboratory Technician is complex and different in every case. Dental technicians work directly with dentists by following detailed written prescription and patient's records to create:

- Crowns/Laminates for the patients who are missing part/parts of the natural tooth/teeth.
- Removable Partial Dentures for the patients who are missing some, but not all their teeth.
- Full Dentures for the patients who are missing all their teeth.
- Implant Supported Prostheses for the patients who are missing all or some of their teeth.
- Maxillofacial Prostheses/Appliances for the patients who are missing portions of their face and/or oral cavity.
- Orthodontic Appliances to help in correcting mal alignments of the teeth.

Restorative Dentistry program at NYCCT is accredited by the Commission on Dental Accreditation [and has been granted the accreditation status of "approval without reporting requirements"]. The Commission is a specialized accrediting body recognized by the United States Department of Education.

Students in this major can join department clubs such as "Jaws Club" and engage in other opportunities e.g., summer externship program.



NEW YORK CITY COLLEGE OF TECHNOLOGY

STUDENT READY COLLEGE DEPARTMENTS, WHO WE ARE, SPRING 2021

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Students in the Restorative Dentistry Department will be provided with important resources, such as: state-of-the-art dental laboratory rooms, equipped for learning and practicing how to fabricate different dental appliances using the conventional and/or the digital dentistry. Students are often interested in acquiring the following skills and aptitudes:

- Know generally accepted practices in the fabrication of dental appliances.
- Understand properties of materials used in the fabrication processes.
- Follow instructions from technical manuals.
- Troubleshoot errors occurring in the fabrication processes.
- Use correct dental and anatomical terminology used in restorative dentistry work.
- Apply knowledge of anatomical and physiological aspects to fabrication of appliances.
- Understand how to read and fulfill a dental prescription.
- Use effective communication skills.
- Know proper safety procedures as it pertains to laboratory materials and equipment.
- Exercise discretion and good judgment in all aspects of work.
- Prepare for Recognized Graduate exam in Dental Laboratory Technology.
- Perform all tasks required for Specialty Certification in Dental Laboratory Technology.
- Know infection control procedures as it pertains to Dental Laboratory Technology.
- Apply knowledge of mathematics in determining ratios and converting measurements.
- Read and analyze literature found in the dental field.
- Demonstrate an understanding and support of the profession's code of ethics and comply with the profession's scope of practice.

[Options for employment and further study:](#)

The Dental Laboratory Technology program at City Tech is the largest in the nation and has always been on the cutting edge. In 1946, it was the first higher education program of its kind in the United States. It was the first dental technology program accredited by the Commission on Dental Accreditation of the American Dental Association in 1954, the first program to become a Certified Dental Lab (CDL) by the National Board for Certification in Dental Laboratory Technology (NBC) in 1995, and the first to purchase and integrate CAD-CAM technology into the curriculum in 2004. Today, the program is a member of the National Association of Dental Laboratories (NADL).

Graduates of the program are prepared for employment in commercial dental laboratories, hospitals, dental schools, or dental offices. Some graduates secure



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employment with dental manufacturers as research assistants or sales representatives.

At the end of the fourth semester, students who have completed all laboratory courses are permitted to take the Recognized Graduate Examination, administered by the National Board for Certification (NBC). This is the preliminary examination leading to certification as a Certified Dental Technician (CDT). The final (or practical) portion of the certification examination may be taken in one or more of the specialties (ceramics, crown & bridge, dentures, partial dentures, orthodontics, or implants) after gaining proficiency through experience in the field.

Graduates may pursue baccalaureate degrees at City Tech through the CUNY baccalaureate program, the Career and Technical Teacher Education program or the Health Services Administration program.

Fun Facts:

The Dental Laboratory Technology program at City Tech is the largest in the nation and has always been on the cutting edge. In 1946, it was the first higher education program of its kind in the United States. It was the first dental technology program accredited by the Commission on Dental Accreditation of the American Dental Association in 1954, the first program to become a Certified Dental Lab (CDL) by the National Board for Certification in Dental Laboratory Technology (NBC) in 1995, and the first to purchase and integrate CAD-CAM technology into the curriculum in 2004. Today, the program is a member of the National Association of Dental Laboratories (NADL).

Among the employers of the graduates of this program are Sloane-Kettering Hospital, Veterans Administration Hospital, Columbia Dental School, New York University, New York City high schools, Nobel Biocare, Amann Girbach, Affordable Dentures, Aspen Dental, Clear Choice and others. Over the years, many graduates have accepted teaching positions in dental technology schools while others become the owners and managers of dental laboratories in the New York area and across the country.



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