The goal of the Dental Laboratory Technology Program is to train students to be capable of the design, fabrication and production of dental prostheses, including full and partial dentures, crowns, bridges and orthodontic appliances.

**Program Description**

Dental laboratory technicians possess the skills, competencies and knowledge that is invaluable to the practice of modern dentistry. Through the unique Dental Laboratory Technology Program situated at the well-equipped laboratories at the SUNY Erie South Campus, students are instructed in all aspects of dental laboratory technology. Opportunities are available for second-year students to work with doctors in private practice, at hospitals and at commercial dental laboratories as they prepare to join the profession and the oral health team.

The goal of the Dental Laboratory Technology Program is to train students to be capable of the design, fabrication and production of dental prostheses, including full and partial dentures, crowns, bridges and orthodontic appliances. New state-of-the-art techniques, equipment and materials are emphasized, i.e. implantology, cosmetic dentistry and CAD/CAM technology.

The curriculum, offered on a full-time basis during the day, highlights coursework in anatomy, physiology, occlusion, biomedical materials, dental metallurgy, dental prostheses, ceramics technology and computer-assisted design. Classroom learning is supplemented with laboratory experiences in our well-equipped laboratories at the college, as well as at local hospitals and commercial laboratories.

The Dental Laboratory Technology laboratories at the South Campus have been designed to accommodate students confined to wheelchairs. Employment opportunities are available in commercial dental laboratories, private dental practices, hospitals, public dental health facilities, manufacturers of dental supplies, materials and equipment and in research facilities and educational institutions. Our graduates are employed in various types of positions: research and development for large manufacturing companies; quality control; technicians working at the bench; and lecturers and demonstrators. Several are on the faculty of dental and/or dental laboratory schools; some are denturists in Canada and in the several states in the U.S. that license denturism; and some open their own laboratories. Several graduates have gone on to dental school. SUNY Erie also has a transfer articulation agreement with Canisius College. Students who complete all the required courses in the Dental Laboratory Technology program and who use their SUNY Erie electives as advised can earn a B.S. in Professional & Technical Studies degree at Canisius.
The National Board for Certification in Dental Laboratory Technology’s (NBC) Recognized Graduate (RG) Examination is offered to students during the fourth semester of the program. SUNY Erie students traditionally exhibit one of the highest overall averages in the nation. SUNY Erie’s South Campus is also a site for the NBC’s Certified Dental Technician (CDT) examinations.

Accreditation

The program in Dental Laboratory Technology is accredited by the Commission on Dental Accreditation. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611-2678. The Commission’s web address is: http://www.ada.org/en/coda.

SUNY Erie’s program is one of only fourteen Dental Laboratory Technology programs that have this status.

Special Admission Requirements/Prerequisites

Applicants should have a high school diploma or HSE (High School Equivalency). Some of the attributes of a successful dental lab technician are good manual dexterity, color perception and an aptitude for detail. While most states set no minimum qualifications for dental lab technicians, some states require technicians to be certified by the National Board for Certification in Dental Laboratory Technology. A conviction for the illegal practice of dentistry will prevent a person from becoming certified. Students are required to purchase a dental tool kit at the approximate cost of $450.

Program Flexibility

Required liberal arts and science courses are available at all three campuses, during the day, evenings and summers. Dental Laboratory Technology courses are offered at South Campus. Although most students begin in September, a limited number are accepted in January as part of the extended curriculum option.

Scholarships Available

- American Dental Association
- SUNY Erie Health Sciences

Program Competencies

Upon graduation with an Associate in Applied Science degree in Dental Laboratory Technology, the graduate will be able to:

- draw to scale and carve each permanent tooth;
- identify uses of and list the properties of the various dental materials;
- construct a denture which is functional and aesthetic;
- demonstrate knowledge of surveying and designing by constructing a removable partial denture;
- perform minor repairs on dental lab equipment;
- mount and articulate maxillary and mandibular casts on a semi-adjustable articulator;
- repair all types of oral prostheses;
- construct custom trays and fabricate models and dies;
- develop and construct any type of fixed bridge (single unit and multiple unit);
- identify malocclusions;
- design and construct an orthodontic appliance capable of correcting a specific malocclusion;
- construct various types of crowns (one-piece posted crown and two-piece post, core and crown);
- construct a bridge using semi-precision attachments and a milled lock attachment; also using attachments in conjunction with removable partial dentures;
- construct metal substructure and build, fire and complete porcelain on single and multiple units;
- construct a complete set of implant dentures;
- construct a bridge and removable appliance using implants attachment;
- treat patients of different cultural, racial, ethnic and class backgrounds;
- be cognizant of the health care system; and
- prevent contamination by bloodborne infectious diseases.

CURRICULUM

Total Degree Credits: 76.5

First Year, Fall Semester
- DL 110 Introduction to Technical Dentistry (1 cr)
- DL 111 Dental Anatomy, Physiology, Occlusion (2 cr)
- DL 112 Lab for DL 111 (3 cr)
- DL 113 Biomedical Materials and Dental Metallurgy (1 cr)
- DL 114 Lab for DL 113 (1 cr)
- DL 115 Complete Denture Technique I (1 cr)
- DL 116 Lab for DL 115 (3 cr)

First Year, Spring Semester
- DL 121 Removable Partial Denture Technique (1 cr)
- DL 122 Lab for DL 121 (3 cr)
- DL 123 Restorative Technique I (2 cr)
- DL 124 Lab for DL 123 (3 cr)
- DL 125 Complete Denture Technique II (1 cr)
- DL 126 Lab for DL 125 (3 cr)

Second Year, Fall Semester
- DL 230 Dental Laboratory Practice I (3 cr)
- DL 231 Removable Partial Denture Technique II (1 cr)
- DL 232 Lab for DL 231 (2 cr)
- DL 233 Restorative Technique II (1 cr)
- DL 234 Lab for DL 233 (3 cr)
- DL 235 Ceramics Technique I (1 cr)
- DL 236 Lab for DL 235 (1 cr)
- DL 237 Orthodontic Technique I (1 cr)
- DL 238 Lab for DL 237 (1.5 cr)
### Second Year, Spring Semester

- **DL 240** Dental Laboratory Practice II (4 cr)
- **DL 241** Senior Seminar (1 cr)
- **DL 243** Restorative Technique III (1 cr)
- **DL 244** Lab for DL 243 (3 cr)
- **DL 245** Ceramics Technique II (1 cr)
- **DL 246** Lab for DL 245 (1 cr)
- **DL 264** Lab II for DL 245 (1 cr)

### Specialty Course Options

*Five credits of Specialty Course Options are required for completion of the Program*

- **DL 250** Dental Lab Specialties (2 cr)
- **DL 251** Partial Denture Seminar (2 cr)
- **DL 253** Complete Denture Seminar (2 cr)
- **DL 255** Ceramics/Restorative Seminar (2 cr)
- **DL 257** Maxillofacial Prosthesis (1 cr)
- **DL 258** Lab for DL 257 (1 cr)
- **DL 260** Dental Implantology (2 cr)
- **DL 261** Orthodontic Technique II (1 cr)
- **DL 262** Lab for DL 261 (1 cr)
- **DL 265** Cosmetic and Aesthetic Dentistry (2 cr)
- **DL 266** Lab for Denture Set-Ups (1 cr)
- **DL 270** Dental Laboratory Internship (2 cr)
- **DL 271** CAD/CAM Systems for Dental Lab Technology (1 cr)

### Additional Courses:

*Twenty credits of Liberal Arts/General Studies are required. The following four courses are required plus eight additional credits of Liberal Arts/General Studies of the students’ choice. Please note that high school chemistry or CH 140 College Chemistry I is a prerequisite for CH 144.*

- **CH 144** General Chemistry with Introductory Organic and Biochemistry (3 cr)
- **EN 110** College Composition (3 cr)
- **EN 111** Composition and Interpretation of Literature (3 cr)
- **MT 112** Survey of Mathematics (3 cr)

*Note: This is a recommended sequence. Student should consult his/her academic adviser prior to registering.*

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*SUNY Erie is committed to equal opportunity in educational programs, admissions and employment. It is the policy of SUNY Erie to provide equal opportunity for all qualified applicants, students and employees, and to prohibit discrimination. Title VII of the Civil Rights Act of 1964, as amended, prohibits discrimination based on race, color, religion, national origin, age, sex (including pregnancy), disability, sexual orientation, marital status or veteran status. Discrimination of this nature is unacceptable and impermissible conduct which will not be tolerated.*

*SUNY Erie deplores such conduct as an abuse of authority. Allegations leading to conviction can result in suspension or termination of employment. Related inquiries should be addressed to Title IX, ADA and Section 504 Compliance Coordinator, 851-1119. 8/2018*