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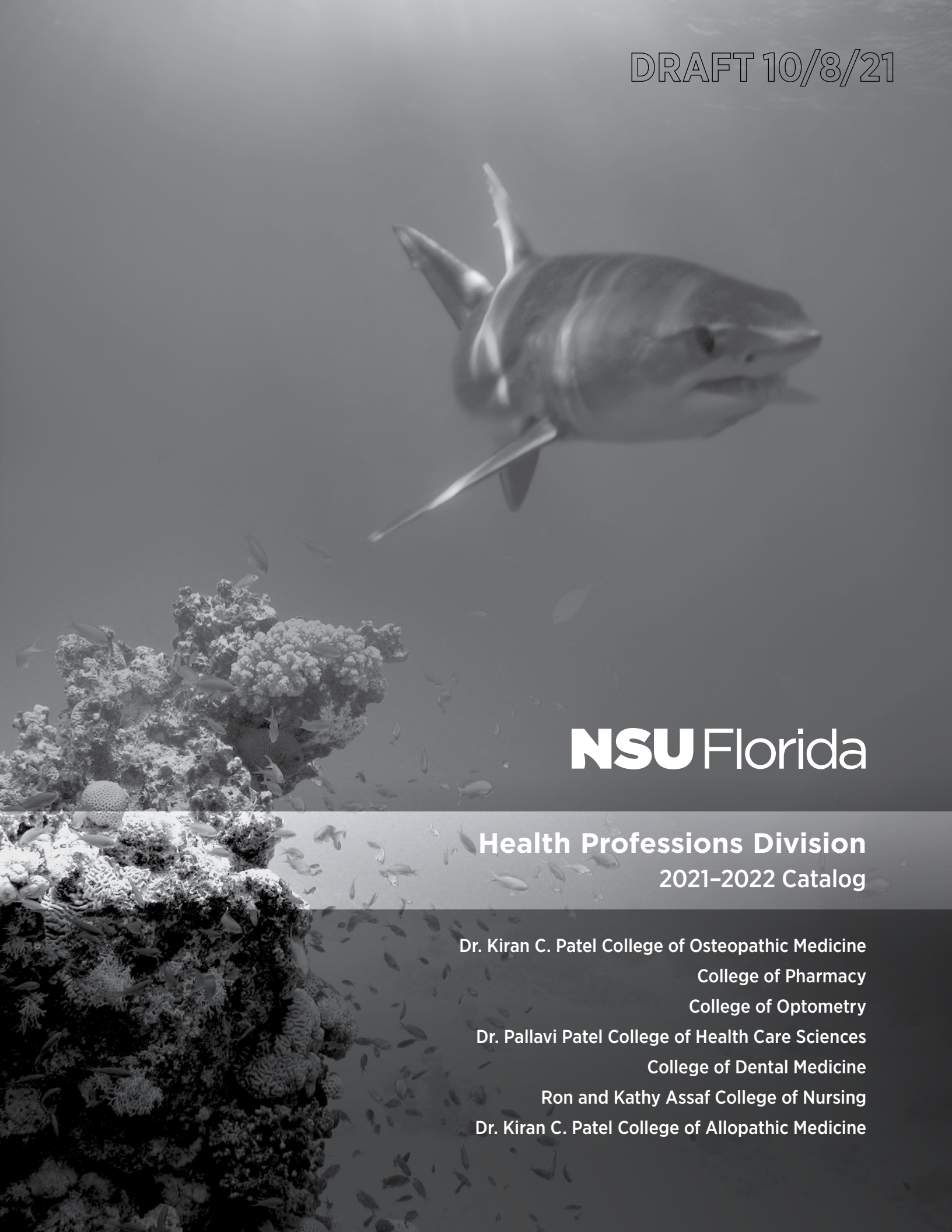

NSU Florida

Health Professions Division

2021–2022 Catalog

Dr. Kiran C. Patel College of Osteopathic Medicine

College of Pharmacy

College of Optometry

Dr. Pallavi Patel College of Health Care Sciences

College of Dental Medicine

Ron and Kathy Assaf College of Nursing

Dr. Kiran C. Patel College of Allopathic Medicine

Notice: Credits and degrees earned from colleges within the state of Florida that are licensed by the State Board of Independent Colleges and Universities do not automatically qualify the individual to participate in professional examinations in Florida. The established procedure requires the appropriate state professional board to review and recognize the colleges granting the degrees prior to scheduling examinations. Additional information regarding Nova Southeastern University Health Professions Division and its colleges of osteopathic medicine, pharmacy, optometry, health care sciences, dental medicine, nursing, and allopathic medicine may be obtained by contacting the State Board of Independent Colleges and Universities, Department of Education, Tallahassee, Florida. Any student interested in practicing a regulated profession in Florida should contact the Department of Business and Professional Regulation, 2009 Apalachee Parkway, Tallahassee, FL 32301.

This catalog is for information purposes only and does not represent a contract. Information contained herein is subject to change at any time by administrative decision or the direction of the NSU Board of Trustees.

Accreditation

Nova Southeastern University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate's, baccalaureate, master's, educational specialist, doctorate, and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Nova Southeastern University.

Notice of Nondiscrimination

Consistent with all federal and state laws, rules, regulations, and/or local ordinances (e.g., Title VII, Title VI, Title III, Title II, Rehab Act, ADA, Title IX, and the Florida Civil Rights Act), it is the policy of Nova Southeastern University not to engage in any discrimination or harassment against any individuals because of race, color, religion or creed, sex, pregnancy status, national or ethnic origin, nondisqualifying disability, age, ancestry, marital status, sexual orientation, gender, gender identity, military service, veteran status, or political beliefs or affiliations, and to comply with all federal and state nondiscrimination, equal opportunity, and affirmative action laws, orders, and regulations. Any such acts are unacceptable and strictly prohibited by the university.

In addition, the law prohibits retaliation against an individual for opposing any practices forbidden under this policy, for bringing a complaint of discrimination or harassment, for assisting someone with such a complaint, for attempting to stop such discrimination or harassment, or for participating in any manner in any investigation or resolution of a complaint of discrimination or harassment. This nondiscrimination policy applies to admissions; enrollment; scholarships; loan programs; athletics; employment; and access to, participation in, and treatment in all university centers, programs, and activities. NSU admits students of any race, color, religion or creed, sex, pregnancy status, national or ethnic origin, nondisqualifying disability, age, ancestry, marital status, sexual orientation, gender, gender identity, military service, veteran status, or political beliefs or affiliations, to all the rights, privileges, programs, and activities generally accorded or made available to students at NSU, and does not discriminate in the administration of its educational policies, admission policies, scholarship and loan programs, and athletic and other school-administered programs.

10-004-21NOM

Nova Southeastern University
Health Professions Division

Dr. Kiran C. Patel College of Osteopathic Medicine

College of Pharmacy

College of Optometry

Dr. Pallavi Patel College of Health Care Sciences

College of Dental Medicine

Ron and Kathy Assaf College of Nursing

Dr. Kiran C. Patel College of Allopathic Medicine

NSU
Florida

Letter from the NSU President/CEO

Welcome to Nova Southeastern University! As the president of NSU, it is my honor to welcome you into our Shark family.

Our goal is to provide you with a quality education that will prepare you for a rewarding future in your career, your community, and your life. Within all our programs, you will learn from the expertise of our diverse faculty. Your hands-on, immersive program will challenge you in new ways that you have not experienced before. Over time, you will grow academically and personally as you work with professors and your peers. You will push past any limits you have set for yourself as you learn the skills that will allow you to dominate your chosen profession.

There is much more to life at NSU than going to class, so I encourage you to explore your interests with our on-campus clubs, organizations, and internship opportunities. Your course at NSU is yours to chart, and I am confident that you will make the best choices and have enriching experiences.

This moment represents the start of a new journey, and I would like to remind you that the journey is as important as the destination. Soon enough, you will be completing your degree, and I assure you, by the time you finish, with the knowledge and experience you gleaned at NSU, you will have unleashed your potential to be a leader.

Go Sharks, and FINS UP!

Sincerely,

George L. Hanbury II, Ph.D.
NSU President and Chief Executive Officer

Letter from the NSU Provost and Executive Vice President for Academic Affairs

Welcome and congratulations on your acceptance to the Health Professions Division (HPD) of Nova Southeastern University. You are joining an innovative learning community replete with the resources and experiences you will need to prepare you for a fulfilling career in health.

NSU's Health Professions Division is unique. It was developed as an interdisciplinary and interprofessional educational center of academic excellence from inception. The division was founded on the concept that the interdisciplinary and interprofessional approach to education is beneficial to students of all professions. The HPD will prepare you to work effectively with health care providers from different fields and foster mutual understanding of the challenges, rewards, and needs specific to each discipline. By encouraging students from various disciplines to learn together, barriers are broken, and patient care is enhanced.

Your distinguished faculty members are talented, student-centered teachers and respected researchers—all dedicated to helping you attain the skills and knowledge necessary to begin or enhance your professional career. The faculty utilizes a brilliant array of effective experiential learning approaches giving you practical, real-world, clinical experiences. You will also benefit from the Health Professions Division's technology-enhanced classrooms, labs, clinics, and library resources supporting you on your educational journey.

At the Health Professions Division, you will become part of a vibrant, diverse student body. Like the university as a whole, our HPD is a minority-majority community, giving you the opportunity to learn in a culture-rich environment. You will find tremendous diversity with the patients you will see in the HPD clinics, practicums, rotations, and community service as well, because the HPD has a longstanding commitment to promoting service to underserved communities.

We look forward to working with you as you pursue your academic studies and prepare to become health care professionals who serve and lead with integrity.

Ronald J. Chenail, Ph.D.
Provost and Executive Vice President for Academic Affairs

Letter from the Health Professions Division Chancellor

Nova Southeastern University's Health Professions Division is playing a vital role in educating the next generation of health care leaders. The division currently comprises colleges in seven distinct fields—osteopathic medicine, pharmacy, optometry, dental medicine, health care sciences, nursing, and allopathic medicine—that offer more than 70 diverse degree and certificate programs.

In terms of our academic structure, we are always looking to enhance our students' educational experience at NSU's campuses in Fort Lauderdale/Davie, Fort Myers, Jacksonville, Miami, Miramar, Orlando, Palm Beach, Tampa Bay, and Puerto Rico. This is accomplished by implementing the most cutting-edge technology and through our continually evolving curricula, which is overseen by a caring cadre of faculty and staff members.

The university celebrated a milestone in its history with the launch of the more than 300,000-square-foot Tampa Bay Regional Campus in Clearwater, Florida, which is one of the most highly advanced instructive sites in the United States. This campus, which offers the most progressive pedagogy and technology possible, also features distinctive design aspects to provide students with the optimal educational experience.

Now operating, the Tampa Bay Regional Campus houses an additional site for NSU's Dr. Kiran C. Patel College of Osteopathic Medicine. However, the Dr. Pallavi Patel College of Health Care Sciences and the Ron and Kathy Assaf College of Nursing are also represented there. These colleges stand alongside each other, not as separate programs or separate schools, but as collaborative and collegial health education entities.

The NSU Health Professions Division is committed to ensuring that our current and future students receive a comprehensive education at an academic institution that has established a reputation for being dynamic, innovative, and interprofessional in its academic approach.

Frederick Lippman, R.Ph., Ed.D.
Chancellor, Health Professions Division
Special Projects

Health Professions Division Administration

George L. Hanbury II, Ph.D.
NSU President and CEO

Frederick Lippman, R.Ph., Ed.D.
Chancellor, Health Professions Division
Special Projects

Irving Rosenbaum, D.P.A., Ed.D., M.P.A.
Vice President for Operations
Health Professions Division

Patrick C. Hardigan, Ph.D.
Associate Dean for Academic Affairs
Health Professions Division

Jay M. Tischenkel, B.Sc., R.Ph.
Director of Institutional Advancement
Health Professions Division

Steve Weinstein, CPA
Director of Finance
Health Professions Division

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As of May 7, 2021

Vision 2025 Statement

By 2025, NSU will be recognized as a preeminent, professional-dominant, doctoral-research university that provides competitive career advantages to its students and produces alumni who serve and lead with integrity.

Nova Southeastern University Mission Statement

The mission of NSU—a selective, doctoral-research university—is to deliver innovative academic programs in a dynamic, lifelong learning and research environment fostering integrity, academic excellence, leadership, and community service through engaged students, faculty, and staff.

Core Values

Integrity	Innovation
Academic Excellence	Opportunity
Community	Scholarship/Research
Diversity	Student Centered

The Vision 2025 Statement, Mission Statement, and Core Values were adopted by the NSU Board of Trustees on March 29, 2021.

Health Professions Division Board of Governors

Health Professions Division Mission Statement

The mission of the Nova Southeastern University Health Professions Division is to train health practitioners in a multidisciplinary setting, with an emphasis on medically underserved areas.

The institutional premise is that health professionals should be trained in a multidisciplinary setting and, whenever possible, with integrated education. The university trains students in concert with other health profession students so that the various disciplines will learn to work together as a team for the good of the public's health. During their didactic work, students share campus facilities and, in some cases, have combined classes. In their clinical experiences, they work together in facilities affiliated with the university.

The division aims to educate health care practitioners who will eventually increase the availability of health care to alleviate health care shortages. The division aims to mitigate some of these shortages by exposing the entire student body to the needs and challenges of rural, underserved, and geriatric populations. Existing curricula require all students to attend ambulatory care rotations in rural or urban areas, or both, making Nova Southeastern University oriented toward a pattern of training its students in areas geographically removed from the health center itself, and to the care of indigent and multicultural population groups. In doing this, it developed training programs that address the health care needs of the region's most medically underserved populations.

All students are encouraged to participate in community service. The Health Professions Division supports the mentoring and collaboration of interdisciplinary research with faculty members.

History of the Health Professions Division

Sustained growth and unity has made Nova Southeastern University (NSU) the largest independent university in the state of Florida. This growth culminated in January 1994, when Nova University and Southeastern University of the Health Sciences merged to become Nova Southeastern University.

Nova University was chartered in 1964 as a graduate institution in the physical and social sciences. Over time, Nova added programs in law, education, business, psychology, computer science, oceanography, social and systemic studies, and hospitality, and, in 1972, introduced its first off-campus course of study, in education. Soon, Nova became nationally recognized for its innovative distance learning programs. Today, field-based programs are located in 32 other Florida cities, in nearly 30 other states, and at selected international sites.

While Nova continued to expand its educational reach, Southeastern University of the Health Sciences also was on an expansion course. Southeastern was created by osteopathic physicians committed to establishing a College of Osteopathic Medicine in the Southeast. As a result, Southeastern College of Osteopathic Medicine, as it was first known, opened in 1981.

From 1987 to 1997, Southeastern added Colleges of Pharmacy, Optometry, Allied Health, Medical Sciences, and the College of Dental Medicine, which admitted 88 students in 1997. This growth was unprecedented, but not unsurpassed. There was still more to come.

The merger brought on new possibilities. Prior to 1994, Nova had evolved with innovative technology and Southeastern expanded to provide much needed health care education. With the merger, Nova Southeastern University's resources make possible a more transdisciplinary education. Students have an opportunity to integrate across the disciplines and understand how their professions relate to society as a whole.

The growth of the Health Professions Division (HPD) is continuous. In 2003, an R.N. to B.S.N. (Bachelor of Science in Nursing) program was added to the College of Allied Health, which then became the College of Allied Health and Nursing. Numerous other nursing programs were added over the next nine years. This resulted in the creation of a separate College of Nursing in 2012. At the same time, the College of Allied Health was renamed the College of Health Care Sciences.

In 2015, the College of Allopathic Medicine was added to the HPD mix. The college received preliminary accreditation in October 2017 and welcomed its first inaugural class of 50+ students in the summer of 2018. It has since received provisional accreditation, the second step to full accreditation.

In September of 2017, NSU received the largest philanthropic gift in its history from Dr. Kiran C. Patel, M.D., and his wife, Dr. Pallavi Patel, M.D. The commitment from the Patel Family Foundation included a $50-million gift and an additional $150-million real estate and facility investment in a 325,000-square-foot medical-education complex. This real estate has become the NSU Tampa Bay Regional Campus in Clearwater, Florida, opening in 2019. The NSU Tampa Bay Regional Campus houses an additional site for NSU's osteopathic medical school, as well as all the other HPD programs previously located at NSU's Tampa Campus.

In honor of the financial gift, the Health Professions Division renamed two of its colleges. NSU's osteopathic medical college became the Dr. Kiran C. Patel College of Osteopathic Medicine and NSU's health care sciences college became the Dr. Pallavi Patel College of Health Care Sciences.

In January 2018, the HPD attained other significant financial gifts. To honor these gifts, two more HPD colleges were renamed. The College of Allopathic Medicine became the Dr. Kiran C. Patel College of Allopathic Medicine, while the College of Nursing was renamed the Ron and Kathy Assaf College of Nursing.

From the HPD's newest college—the Dr. Kiran C. Patel College of Allopathic Medicine—to its oldest—the Dr. Kiran C. Patel College of Osteopathic Medicine—all the HPD colleges enhance NSU's esteem by providing high levels of innovation and distinctiveness.

Campuses

Nova Southeastern University's Health Professions Division—now composed of the colleges of osteopathic medicine, pharmacy, optometry, health care sciences, dental medicine, nursing, and allopathic medicine—offers a rare blend of tropical, South Florida weather; plentiful, sunny beaches; an easily accessible campus; a dedicated and professional faculty; well-established affiliations with many hospitals, clinics, and health care systems in the area; and a mission to educate professionals capable of providing the highest-quality health care service.

The university's Fort Lauderdale/Davie Campus is located on a lush, 314-acre site in the Greater Fort Lauderdale area, 10 miles inland of the Atlantic Ocean and readily accessible via several highways and Florida's Turnpike.

The Health Professions Division complex, dedicated in June 1996, is located on the northwest corner of this campus and encompasses more than 540,000 square feet of space for administrative offices, classrooms, laboratories, the Martin and Gail Press Health Professions Division Library, and a patient-services clinic. There is also a 600,000-square-foot parking structure with space for 2,000 vehicles.

The division elicited input from students and faculty members and incorporated innovations in architecture, ergonomics, and computer-aided technology to provide facilities that enhance the learning experience.

The complex is an arrangement of eight buildings, four of which are connected by air conditioned lobbies. The Sanford L. Ziff Health Care Center, physical plant, and parking garage are connected to the central buildings by covered walkways. Administration and faculty offices are on the upper levels of the five-story Terry Administration Building, with the departments of admissions and student services, and a cafeteria located on the first floor.

Located in the lobby of the Terry Building, the Health Museum exhibits artifacts and antiques representing each of the colleges of the Health Professions Division. The collection houses an informative and historical display of medical memorabilia for students, faculty members, and visitors to explore.

Private tours of the museum can be arranged with the curator, Cynthia Magalian Tupler, B.F.A. Contact Helen Caidin in the Pharmacy Department to schedule an appointment, (954) 262-1380.

Adjacent to the administration building is the Assembly Building, which consists of a 500-seat auditorium, a 250-seat auditorium, and eight 126-seat amphitheater-classrooms, all equipped with computerized audio/video systems.

Connected to this is the three-story Library/Laboratory Building. On the first floor is the library and a 100-seat cardiac laboratory utilizing "Harvey," a computerized mannequin that duplicates the sounds and symptoms of most heart conditions.

Also on the first floor are patient simulation training rooms and a 50-station computer laboratory for student use. The second and third floors house laboratories, a student lounge, and a research area. Laboratories are equipped for viewing pretaped medical procedures, and each large laboratory has a video system and hookups to equipment such as an electron microscope, so that illustrations can be amplified for laboratory-wide viewing.

Just north of the Library/Laboratory Building is the Health Care Center, with facilities for primary health care, rehabilitative services, eye care, pharmacy, and a simulation nursing laboratory.

The College of Dental Medicine's 70,500-square-foot building advances the state-of-the-art in dental education facilities. The first floor contains a 100-operatory predoctoral clinic facility and clinics and support laboratories for oral medicine, radiology, and oral surgery. The second floor houses a faculty practice; clinics for postgraduate programs in advanced education in general dentistry, endodontics, operative dentistry, oral and maxillofacial surgery, orthodontics, pediatric dentistry, periodontology, and prosthodontics; a 120-position simulation technique laboratory; and support laboratories. Faculty and administration offices are on the third floor.

The Health Professions Division added a building to foster opportunities for interdisciplinary education and to meet the need for additional classroom, computer, and research facilities. This modern, spacious facility, known as the Assembly II Building, contains more than 31,000 square feet of instructional and research facilities, including a 312-seat auditorium, ultrasound training center, a 50-station computer science laboratory, and 37 seminar and study rooms.

NSU's Health Professions Division also has programs at our campuses located throughout the state and in Puerto Rico. These campuses are located in Fort Myers, Jacksonville, Miami, Miramar, Orlando, Palm Beach, and Tampa Bay, Florida, and in San Juan, Puerto Rico. They provide an optimal solution for students who want a high-caliber education closer to home.

Image Use Statement

As part of the Student Enrollment Agreement (SEA), which students are required to read and accept with their first registration each academic year, students consent to the following Image Use Statement:

I permit and authorize Nova Southeastern University (NSU) and its employees, agents, representatives, contractors, and personnel who are acting on behalf of NSU to take and/or obtain my photograph, name, alias, video and/or audio recording, or other likeness of myself, or any combination thereof, at any public NSU-related events or at any public areas on NSU's property (hereinafter "my likeness"). I further grant NSU permission to utilize my likeness for commercial purposes including publicity, marketing, and promotion for NSU and its programs, without compensation to me, to the extent permissible under the Family Educational Rights and Privacy Act (FERPA). I understand and consent to NSU copying, reproducing, and distributing my likeness in any media format. I further understand that my likeness may be subject to reasonable modification and/or editing and waive any right to inspect or approve the finished product or material in which NSU may eventually use my likeness. I acknowledge that NSU owns all rights to my likeness and understand that, although NSU will endeavor to use my likeness in accordance with standards of good judgment, NSU cannot warrant or guarantee that any further dissemination of my likeness will be subject to NSU's supervision or control. Accordingly, I release NSU from any and all liability related to the use, dissemination, reproduction, distribution, and/or display of my likeness in any media format, and any alteration, distortion, or illusionary effect of my likeness, whether intentional or otherwise, in connection with said use. I also understand that I may not withdraw my permission for use of my likeness which was granted.

Indebtedness to the University

NSU offers to all students—on campus, online, clinical, or hybrid—the same quality education and many opportunities for student benefits depending on the student's choice of educational modality. Therefore, the university sets the overall student fees on an aggregate, student-centric basis for the entire student body. The overall costs exceed the amount collected from student fees charged to all students.

These student fees are blended together to create 1NSU with high-tech systems, student activities, and many other essential student services that make a complete, integrated university. This mission transcends the development and ultimate determination of the amount of student fees for all students, irrespective of their choice of learning modality.

By registering for courses at Nova Southeastern University, the student accepts financial responsibility for payment of all institutional costs including, but not limited to, tuition, fees, housing, health insurance, and meal plan (if applicable), and any additional costs when those charges become due. Payment is due in full at the time of registration. NSU *e*Bills are sent the middle of each month to the student's NSU email address. However, to avoid late charges, students should not wait for their billing statement to pay their tuition and fees. A student will not be able to register for future semesters until all outstanding balances from previous semesters have been paid in full. If a student has a balance 30 days after the start of the semester, a hold and a $100 late fee will be placed on his or her account. This hold stops all student services, including, but not limited to, access to the NSU RecPlex, academic credentials, grades, and future registrations. It will remain on the student's account until the balance has been paid in full. Delinquent student account balances may be reported to a credit bureau and referred to collection agencies or litigated. Students with delinquent accounts will be liable for any costs associated with the collection of unpaid charges, including attorney fees and court costs. All registration agreements shall be construed in accordance with Florida law, and any lawsuit to collect unpaid fees may be brought in the appropriate court sitting in Broward County, Florida, regardless of the student's domicile.

Force Majeure

NSU's duties and obligations to the student shall be suspended immediately, without notice, during all periods that the university is closed or ceases or curtails operations because of force majeure events including, but not limited to, any fire or any casualty, flood, earthquake, lightning, explosion, strikes, lockouts, prolonged shortage of energy supplies, riots or civil commotion, act(s) of God, hurricane, war, governmental action, act(s) of terrorism, epidemic, pandemic, or any other event beyond the university's control. If such an event occurs, NSU's duties and obligations to the student will be postponed until such time as the school, in its sole discretion, may safely reopen or resume operations. Under no circumstances, except as otherwise required by Federal or State statute, will NSU be obligated to refund any portion of tuition, housing, meal plans, fees, or any other cost or charge attributable to any location or service affected by any such force majeure event.

Admissions Policy

Students provisionally are admitted to a degree-seeking program based on a review of unofficial transcripts or other specific program admission requirements. However, this admission includes a condition that final and official transcripts, documents, and requirements must be received within 90 calendar days from matriculation for the graduate and professional programs and by the end of the drop/add period for undergraduate programs. If these final and official transcripts, documents, and/or requirements are not received by that time, the student will not be allowed to continue class attendance. Financial aid will not be disbursed to a provisional/conditional student until he or she has been fully admitted as a regular student (all admissions requirements have been approved by the college/program admissions office). Students who have an unpaid balance 30 days from the start of the term will be assessed a $100 fee.

Foreign Coursework

Coursework taken at a foreign institution must be evaluated for U.S. institution equivalence by an approved National Association of Credential Evaluation Services (NACES) organization, such as one of the services listed below.

- World Education Services, Inc.
  Bowling Green Station
  P.O. Box 5087
  New York, New York 10274-5087
  (212) 966-6311 • 800-361-3106 • *wes.org*
- Josef Silny & Associates, Inc.,
  International Education Consultants
  7101 SW 102 Avenue
  Miami, Florida 33173
  (305) 273-1616 • (305) 273-1338 fax
  info@jsilny.org • jsilny.org
- Educational Credential Evaluators, Inc.
  101 West Pleasant Street, Suite 200
  Milwaukee, WI 53212-3963
  (414) 289-3400 • *ece.org*

It is the applicant's responsibility to have this coursework evaluated. An official course-by-course evaluation with a cumulative grade point average must be sent directly from the evaluation service to Nova Southeastern University, Enrollment Processing Services, 3301 College Avenue, P.O. Box 299000, Fort Lauderdale, FL 33329-9905, for the appropriate college.

Programs using centralized application services should contact the specific application service to check which evaluation services are acceptable in order for their application to be processed.

Background Checks

Certain programs at the NSU Health Professions Division require students to submit to background checks. Accepted applicants and students in such programs are required to authorize the NSU Health Professions Division to obtain background check(s) as per the policy adopted on March 2011. If the background check(s) reveal information of concern, which the NSU Health Professions Division may deem unfavorable, HPD will request that the individual provide a detailed written explanation of the information contained in this report, along with appropriate documentation (e.g., police reports). Students may also be required to authorize clinical training facilities that they are assigned to by the Health Professions Division to obtain a background check with the results reported to the clinical training facility. Students with questions concerning the background checks should contact their respective college and/or academic program for more information.

For programs that require students to submit background checks, offers of admission will not be considered final until the completion of the background check(s), with results deemed favorable by the NSU Health Professions Division, and where appropriate, by the clinical training facilities. If information received in connection with a background check indicates that the student has provided false or misleading statements, has omitted required information, or in any way is unable to meet the requirements for completion of the program, then the student's admission may be denied or rescinded, the student may be disciplined or dismissed, or his or her enrollment may be terminated. Acceptance to an NSU Health Professions Division program does not guarantee that a student with information of concern will be accepted by clinical training facilities to which they may be assigned.

Students enrolled in NSU's Health Professions Division have a continuing duty to disclose any arrest, conviction, guilty or no contest plea, or participation in a pretrial diversion program or its equivalent for any criminal offense. Students are required to notify their dean's office within 10 days of any arrest or subsequent conviction, guilty or no contest plea, or participation in a pretrial diversion program or its equivalent for any criminal offense.

While enrolled at NSU, students have a continuing duty to disclose all of the above, along with any arrests or pending criminal charges, within 10 days of any arrest or charges filed. **Students, other than those enrolled in programs within the Health Professions Division, must notify the assistant dean for Student Affairs or designee of any arrests or pending criminal charges.** A failure to timely disclose any arrests or pending criminal charges may result in disciplinary action, up to and including dismissal from NSU.

Tuition Credit Policy—Voluntary Withdrawals

Students who wish to withdraw from the program or course, if course withdrawal is permitted in the student's college (refer to college policies), must submit a written request for voluntary withdrawal to the dean or program director, who will evaluate the student's request. After completing the required documentation and obtaining the dean's or program director's approval, an eligible student may receive partial credit of the tuition, according to the following formula:

- Drops during the first week of the semester in which classes begin .....75 percent
- Drops after the first week of the semester in which classes begin .....No refund

The withdrawal period starts in the second week of the semester and ends three weeks prior to the end of the semester. **Students enrolled in programs that have a drop/add period**, will have until 11:59 p.m. the first Sunday of the semester, which is the end of the drop/add period, in order to make any changes in their schedule without incurring any financial expenses. Students who drop during the second week of classes will receive a reversal of 75 percent of their charged tuition. Students who drop after the second week of the semester will not be entitled to receive a refund.

Students enrolled in bachelor's degree programs are required to follow policy procedures for drops and withdrawals as noted at *nova.edu/undergraduatestudies/academic-catalog.html* in the undergraduate catalog.

Students may not be given refunds for portions of tuition paid by financial aid funds. As appropriate, the respective financial aid programs will be credited in accordance with federal regulations. Students should notify the Office of Student Financial Assistance prior to withdrawing to determine the effect this will have on financial aid. For complete withdrawals, please refer to the Return of Title IV Funds policies located at *nova.edu/financialaid/apply-for-aid/title-iv-return*.

Failure to comply with these requirements could jeopardize future receipt of Title IV student assistance funds at any institution of higher education the student may attend. If a student is due a refund, it will be mailed to the student's address or deposited directly into the student's checking account after the dean—or designee—of the respective college has approved the withdrawal and the drop request has been processed. The tuition refund policy is subject to change at the discretion of the university's board of trustees/the NSU administration.

Changes to a semester's registration will not be accepted 20 days after the semester ends.

Policy for Florida In-State Tuition

Eligible students must request in-state tuition upon application. For tuition purposes, students' Florida residency status (in-state or out-of-state) will be determined at initial matriculation and will remain the same throughout the entire enrollment of the student at NSU. Accordingly, tuition will not be adjusted as a result of any change in residency status after initial enrollment registration. For more information, visit *nova.edu/hpd-florida-in-state-tuition*.

Enrollment and Student Services

Enrollment and Student Services (ESS) is composed of the Office of Student Financial Assistance, Office of the University Registrar, Office of the University Bursar, NSU Student Health Insurance, the One-Stop Shops in the Horvitz and Terry Administration buildings, Enrollment Processing Services/ Admissions Management Services, Transfer Evaluation Services, Health Professions Division (HPD) Office of Admissions, and SharkCard Services. Collectively, the ultimate goal of ESS is to meet the information and service needs of all NSU students.

Means of Communication with Students

Enrollment and Student Services' official means of communicating with students is via SharkLink and NSU email. Students are encouraged to use NSU's SharkLink to

- check email
- access their financial aid information
- request official transcripts and view unofficial transcripts
- view their student accounts
- make payments
- access their grades
- register for and drop courses
- view their course schedule
- access their online degree evaluation (Degree Works)
- obtain enrollment verification
- change their primary and mailing addresses and phone numbers
- apply for student employment
- sign the Student Enrollment Agreement

The Office of Student Financial Assistance

The Office of Student Financial Assistance (OSFA) is dedicated to assisting students in making well-informed decisions regarding the funding of their education at NSU. The OSFA administers grants, scholarships, student employment, and loans and prepares student financial aid award offers based on federal and state regulations and institutional guidelines. It provides information on the application processes for financial aid, student employment, and veterans educational benefits and counsels students on proactive debt management strategies and financial literacy. The office also monitors student Satisfactory Academic Progress (SAP) for financial aid eligibility and awards scholarships from internal and external sources. Students may receive financial aid guidance in person, by email, or by telephone. For more details, including contact information, visit *nova.edu/financialaid*.

Financial Aid Checklist

1. Complete the FAFSA.

Students should complete the Free Application for Federal Student Aid (FAFSA) at *studentaid.gov* annually. It becomes available each October 1 for aid in the following award year. The earlier students apply, the better chance they have of being considered for maximum available funds. To apply for Florida grants and scholarships, undergraduate students must complete the NSU State Aid Application available on the financial aid website at *nova.edu/financialaid/forms*.

2. Identify and Apply for Scholarships.

Institutional and external scholarship opportunities are available to assist students in meeting their educational goals. The best resource for up-to-date information is the NSU scholarship website located at *nova.edu/financialaid/scholarships*. Students will find information on how to apply, as well as resources to help them identify scholarships. Students should commit to continually identifying and applying for scholarships. This type of financial aid does not have to be repaid.

3. Plan for Housing and Meal Expenses.

The budget includes a housing and meal component. Students must ensure that they budget for these expenses if they intend to live on campus.

4. Check Your Financial Aid Account Frequently.

Students are expected to log in to SharkLink at *sharklink.nova.edu* and regularly check their financial aid status to ensure that there are no outstanding requirements. Students should confirm their admissions status, as they must have completed all admissions requirements in order for financial aid funds to be disbursed.

5. Submit Additional Documents and Complete a Master Promissory Note and Entrance Counseling.

Some students may be required to submit additional documents prior to being awarded. Students will be notified of outstanding requirements via NSU (SharkLink) email. Requirements (outstanding and completed) can also be viewed in SharkLink. Students interested in receiving Federal Direct Loans, will be required to complete a Direct Loan Master Promissory Note (MPN) and entrance counseling at *studentaid.gov*.

6. Accept, Decline, or Modify Your Loan and Federal Work-Study Award(s).

The financial aid award notice provides students with detailed instructions on how to accept, decline, or modify a financial aid award. Loan awards are not disbursed, and students are not able to apply for student employment jobs in JobX, until this step has been completed.

7. Register for Classes (early).

In order for students to receive any federal Title IV or state financial aid (grants, scholarships, Federal Work-Study, and loans), they must register for the minimum number of credits that are required for degree/certificate completion (degree-applicable), as published in the catalog from the year the student matriculated. Enrollment requirements for federal and state grants vary. Students awarded federal direct loans must be enrolled at least half time in degree-applicable courses. Half-time enrollment is defined as 6 degree-applicable credits per semester for undergraduate students. For graduate and professional students, half-time status varies by program. Private loan enrollment requirements vary by lender. Students should register as early as possible to ensure timely disbursement of their financial aid funds.

Return of Title IV Funds

Any student who withdraws from all Title IV eligible courses within an academic semester may be required to return unearned financial aid funds. The Return of Title IV Funds regulation is based on the premise that students earn financial aid for each calendar day that they attend classes. Students are strongly encouraged to consult with a financial aid counselor before dropping or withdrawing from courses so that they may be prepared for what may happen to their financial aid. For complete information, please review *nova.edu/financialaid /apply-for-aid/title-iv-return*.

Student Employment

There are four student employment programs: Federal Work-Study (FWS), Florida Work Experience (FWEP), Nova Student Employment (NSE), and Job Location and Development (JLD). The NSE and JLD programs provide jobs to students regardless of financial need. The FWS and FWEP programs are need-based and require the completion of the FAFSA. Students awarded FWS may participate in the America Reads/America Counts Programs through which students serve as reading or math tutors to elementary school children. For more information on NSU student employment, including information on how to apply for jobs and the *Student Employment Manual*, visit *nova.edu/financialaid/employment*. New and exciting on- and off-campus jobs are available throughout the year.

Satisfactory Academic Progress (SAP)

To receive financial assistance, a student must continually meet Satisfactory Academic Progress (SAP) requirements established by the Department of Education. These progress requirements include the following four criteria: quantitative (annual credits), qualitative (grade point average), maximum time frame (total allowable credits), and pace (overall credits completed).

Students who fail to meet SAP during the 2021–2022 academic year will not be eligible for Title IV federal and Florida state financial aid during the 2022–2023 academic year.

Comprehensive information is available on the financial aid website at *nova.edu/sap*.

Veterans Educational Benefits

The U.S. Department of Veterans Affairs (VA) educational benefits are designated to provide eligible individuals with an opportunity for educational and career growth. Detailed information regarding veteran benefits at NSU is available online at *nova.edu/financialaid/veterans*. Students may also contact the NSU Veterans Benefits Office by calling (954) 262-7236 or toll free at 800-541-6682, ext., 27236, Monday through Friday, between 8:30 a.m. and 5:00 p.m.; by emailing *vabenefits@nova.edu;* or by visiting the veteran benefits office in the Horvitz Administration Building on the Fort Lauderdale/ Davie Campus. Students may also learn about their education benefits by visiting the Department of Veterans Affairs online at *va.gov* or by contacting the VA at 888-442-4551.

Pending Veterans Affairs (VA) Payment Policy

Effective August 1, 2019

Background: Section 103 of PL 115-407, 'Veterans Benefits and Transition Act of 2018,' amends Title 38 US Code 3679 by adding a new subsection (e) that requires disapproval of courses of education, beginning August 1, 2019, at any educational institution that does not have a policy in place that will allow an individual to attend or participate in a course of education, pending VA payment, providing the individual submits a certificate of eligibility for entitlement to educational assistance under Chapter 31 or 33.

Policy: In accordance with Title 38 US Code 3679 subsection (e) of the Veterans Benefits and Transition Act of 2018, Nova Southeastern University (NSU) will not impose a penalty on any student using veterans education benefits under Chapter 31

(Vocational Rehabilitation & Employment) or Chapter 33 (Post 9/11 GI Bill®) because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of funding from the Department of Veterans Affairs (VA). NSU will not

- prevent the student from attending or participating in the course of education during periods in which there is a delayed disbursement
- assess late payment fees if the financial obligation is fully funded by the Department of Veterans Affairs (VA)
- require the student to secure alternative or additional funding for delayed disbursements
- deny the student access to institutional facilities and services (e.g., access to the Don Taft University Center RecPlex, grades, transcripts, and registration) available to other students who have satisfied their tuition and fee bills

Grade/Progress Reports for Students Receiving Veterans Benefits

Nova Southeastern University furnishes each student with a Notification of Posting of Grade with instructions on how to view an unofficial transcript that shows current status of grades and earned semester hours for all courses completed and/or attempted, and grades for courses in which the student is currently enrolled. At the end of every evaluation period (e.g., term, semester) each veteran can request an official transcript that shows the current status of grades and earned semester hours for all courses completed and/or attempted. This transcript can be obtained from the One-Stop Shop at the William and Norma Horvitz Administration Building or Terry Administration Building or online at *sharklink.nova.edu* for a $10 fee.

The Office of the University Bursar

The Office of the University Bursar is responsible for billing students, collecting and depositing payments, sending invoices and receipts, distributing student educational tax forms, issuing refunds from excess financial aid funds, and verifying students' eligibility for financial aid funds. The office also assists borrowers of Federal Perkins and Health and Human Services Loans with repayment options. NSU Student Health Insurance is also housed within this office. For more information, visit *nova.edu/bursar* or call (954) 262-5200 or 800-541-6682, ext 25200.

Office of the University Bursar Policies

- By registering for courses at Nova Southeastern University, the student accepts financial responsibility for payment of all institutional costs including, but not limited to, tuition, fees, housing and meal plan (if applicable), health insurance, and any additional costs when those charges become due.
- Payment is due in full at the time of registration. NSU *e*Bills are sent the middle of each month to the student's NSU email address. However, to avoid late charges, students should not wait for their billing statement to pay their tuition and fees.
- A student will not be able to register for future semesters until all outstanding balances from previous semesters have been paid in full. If a student has a balance 30 days after the start of the semester, a hold and a $100 late fee will be placed on his or her account. This hold stops all student services, including, but not limited to, access to the University RecPlex, academic credentials, grades, and future registrations. It will remain on the student's account until the balance has been paid in full.
- Delinquent student account balances may be reported to a credit bureau and referred to collection agencies or litigated. Students with delinquent accounts will be liable for any costs associated with the collection of unpaid charges, including attorney fees and court costs. All registration agreements shall be construed in accordance with Florida law, and any lawsuit to collect unpaid fees may be brought in the appropriate court sitting in Broward County, Florida, regardless of the student's domicile.

Methods of Payment

NSU accepts Visa, MasterCard, and American Express. Check payments include traveler's checks, cashier's checks, personal checks, and money orders. International checks must be in U.S. funds only and drawn on a U.S. bank. Wire transfers are accepted.

Electronic check and credit card payments can also be made through NSU *e*Bill, SharkLink, or Self-Service Banner. Students can access NSU *e*Bill using their SharkLink ID and password to authorize other individuals (e.g. parent, spouse, or grandparent) to view their bill and make payments to their account. Students may also mail a payment to the Office of the University Bursar or make payments in person at either of the One-Stop Shops on the Fort Lauderdale/Davie Campus. For more details, visit *nova.edu/bursar/payment/pay_my_bill.html*.

Declined Payment Policy

NSU assesses a $25 declined payment fee for each declined payment, including installment payments that are part of a payment plan and payments made by check or credit card. A declined payment hold (1F) is placed on the account until the declined payment and assessed fee have been paid. The bursar's office reserves the right to refuse personal checks from students whose previous check payments have been declined more than once. These students will be required to submit payment by money order, credit card, or certified check.

Payment and Tuition Assistance Plans

NSU Payment Plans

NSU Payment Plans allow students (with the exception of international students) and their families to pay university charges in installments. For more information, visit *nova.edu/bursar/payment/payment_plans.*

Tuition Assistance Plans

• Tuition Direct Billing

A student whose employer, sponsor, or guarantor has agreed to be direct billed by NSU must notify the Office of the University Bursar accordingly. Upon registration, the student must

– provide a voucher, financial guarantee, letter of credit or authorization from the respective payer with the amount and enrollment period for which funds are to be applied when charges are due at the time of registration

– where applicable, pay any amount due not covered in the billed party documentation no later than the start of the semester to avoid the assessment of late fees

• Tuition Reimbursement

Some employers/sponsors/guarantors make payments directly to the student under tuition reimbursement programs. These programs are between the student and the employer only. To avoid holds on the account, students must do the following upon registration:

– pay charges in full for the semester/term

– send an email to *bursar@nova.edu* from their SharkLink (NSU) email account to request a receipt of paid charges

Please note that students under employer tuition reimbursement programs are not exempt from the university's payment policy. Students must ensure that their accounts remain free from holds, so that they may access their transcripts at the end of each semester for tuition reimbursement purposes.

Florida Prepaid College Plan

NSU accepts and bills the Florida Prepaid College Plan (FLPP) for tuition, fees, and on-campus housing costs. The plans are based on the tuition rates of the tax-assisted Florida public colleges and universities. The difference between NSU tuition, fees, and on-campus housing costs and the allocations through the Florida Prepaid College Plan is the sole responsibility of the student. If a student is on the unrestricted plan, the student must designate a dollar amount for up to the cost of tuition and fees. Students new to NSU must contact Florida Prepaid at 800-552-GRAD to authorize NSU for payment. For those students who have notified the Florida Prepaid College Plan that they are attending NSU, the plan will automatically be billed based on the hours of enrollment after the drop/add period. A student may request changes to their FLPP by submitting a completed and signed Florida Prepaid College Plan Billing Request Form available on the bursar website at *nova.edu/bursar/forms*. To learn more about the Florida Prepaid College Plan, visit *myfloridaprepaid.com*.

NSU Student Health Insurance

NSU requires all students to carry adequate health insurance coverage. Therefore, students will automatically be enrolled in the NSU Student Health Insurance Plan, and their student accounts will be charged when they register for classes. Students who reside and take classes outside of the United States are exempt from this requirement. Students insured under another insurance plan must opt out of the NSU Student Health Insurance Plan each academic year by the given waiver deadline for their program. For detailed information, including waiver deadlines; access to the online waiver; and NSU Student Health Insurance Plan features, costs, and more, students should visit the Bursar's website at *nova.edu/studentinsurance*.

The Office of the University Registrar

The Office of the University Registrar offers a variety of services to the university community. These services include, but are not limited to, course registration, transcript processing, name and address change, loan deferment, enrollment and degree verification, grade processing, commencement, degree conferral, and diploma printing. The essential responsibility of the registrar's office is to create, maintain, and protect students' academic records, as well as interpret and uphold university policy. Additional information is available at *nova.edu/registrar* or call (954) 262-7200, 800-262-7200, or 800-541-6682, ext 27200.

Transcript Requests

Students may view a complete academic history, print out an unofficial transcript, and request an official transcript in SharkLink.

The fee for an electronic official transcript is $17. Printed official transcripts delivered by U.S. postal mail cost $19.50. For additional information on ordering transcripts, visit *nova.edu/registrar/services/transcript.html*.

Grades

Once grade(s) have been posted to the student's academic record, a notification email directing students to SharkLink to view their grades is sent. An official grade report may also be printed from SharkLink.

Class Registration and Changes

All students must complete an online Student Enrollment Agreement (SEA) form each year in order to register for classes. The SEA outlines the university's standards and policies regarding course registration and withdrawal, financial responsibility, and more. A copy of the SEA is available on the registrar's website at *nova.edu/registrar/forms/catch-the*

-sea-wave. Students must be officially registered prior to the start of the semester/term in order to participate in and receive academic credit for those courses. All holds must be cleared at the time of registration. Late registration will not be accepted if due to a financial hold that was not cleared prior to the close of the registration period. Students are responsible for reviewing their registration and academic records each semester/term for accuracy and for promptly notifying their program office/adviser of any discrepancies. Students have no more than 20 days after the end of a semester/term to resolve any discrepancies. Petitions for retroactive drops, withdrawals, or refunds for a course will only be considered based on documented extenuating circumstances. Appropriate documentation may include doctor's notes and death certificates.

Roster Reconciliation

Students are required to attend the first class of each course to start academic work for the semester, unless they have obtained prior approval for an absence from the instructor. Without such approval, a student will be reported as not in attendance, which may result in the student being dropped from the class through the university's roster reconciliation process. However, it remains the student's responsibility to monitor class registration status in accordance with the Student Enrollment Agreement (SEA), regardless of the instructor's roster reconciliation submission.

Students who believe they were reported in error as non-attendee must communicate with the instructor, who is the only one able to correct the record. Faculty members must email *rostrec@nova.edu* to request a student be left on the class roster who was originally reported as not in attendance.

Name, Social Security Number, or Gender Changes

NSU requires official documentation to make any change to the name, Social Security number, or gender students have on record. Students must submit a completed Data Change Form, available at *nova.edu/registrar/forms/data_change.pdf*, along with supporting legal documentation. For details on acceptable documentation for each change, visit the registrar's website at *nova.edu/registrar/services.html*.

Address Changes

Students may change their address via SharkLink by clicking "View my profile."

Loan Deferment/Enrollment and Degree Verification

Students may obtain a free, official Loan Deferment/Enrollment Verification Form via SharkLink. This Enrollment Verification Form is an official document from the National Student Clearinghouse (NSC) that can be presented to health insurance agencies, housing authorities, consumer product companies, banks, and other agencies requiring documentation of your current enrollment status.

Commencement

The Office of the University Registrar coordinates all NSU commencement exercises, processes degree applications, and prints and distributes diplomas. Complete information is available online at *nova.edu/commencement*.

Transfer Evaluation Services

Graduate and First-Professional Students

Graduate and first-professional students may refer to the institutional polices on transferring credits to NSU listed on the TES website at *nova.edu/tes*. Questions regarding the transfer of graduate/first-professional-level courses should be addressed to the student's program admissions office.

Degree Works Online Degree Evaluations

The university's online degree evaluation system, Degree Works, is a useful reference tool to help students track their progress toward degree requirements published in the college catalog. Students may access Degree Works in SharkLink. Degree Works evaluations are not official and do not replace a student's academic advisor or college catalog information. Students should consult their specific academic advisor/program office for detailed program requirements and course options. Final approval for the completion of graduation requirements is granted by the program office. For more information, visit the registrar's office at *nova.edu/registrar/degreeworks.html*.

The One-Stop Shop

(Horvitz and Terry Administration Buildings)

The One-Stop Shops are the central point of contact for information and service for walk-in prospective, new, and continuing students. Staff members are cross-trained to answer inquiries about financial aid, registrar, and bursar functions. Students can also obtain their SharkCards and parking permits at the One-Stop Shops, which are located in the Horvitz Administration Building, and on the first floor of the Terry Administration Building, both on the Fort Lauderdale /Davie Campus.

Hours of Operation

Monday–Friday: 8:30 a.m. to 5:00 p.m.

Visit *nova.edu/financialaid/contactus* for extended hours of operation during peak periods.

The One-Stop Shops are closed on holidays observed by NSU.

Regional Campuses

The Office of Student Financial Assistance hours of operation at the regional campuses are as follows:

Fort Myers

Monday–Thursday: 9:00 a.m.–5:30 p.m.
Friday: 8:30 a.m. to 5:00 p.m.
(No Saturday or Sunday hours)

Jacksonville
Monday–Friday: 9:30 a.m.–6:00 p.m.

Miami
Monday–Friday: 9:30 a.m.–6:00 p.m.

Orlando
Monday–Friday: 9:00 a.m.–5:30 p.m.

Palm Beach
Monday–Friday: 8:30 a.m.–5:00 p.m.

Puerto Rico
Tuesday–Friday: 8:30 a.m.–6:00 p.m.
Saturday 10:00 a.m.–1:00 p.m.

Tampa Bay
Monday–Friday: 8:30 a.m.–5:00 p.m.

Veterans Resource Center

The Veterans Resource Center (VRC) is the centralized location for resources and services for veterans and military-affiliated students. The VRC's mission includes facilitating academic success and supporting university and community engagement, professional development, and, ultimately, graduation and career attainment.

Located in the Carl DeSantis Building, room 1045, the VRC is a home away from home that offers the following:

- assistance with educational benefits
- a lounge, meeting, and study area with a computer lab and free printing
- veteran-specific programming with university and community engagement opportunities
- academic drop-ins from the Career Development office, Tutoring and Testing Center, The Writing Center, and success coaches
- a biweekly speaker series with topics such as VA benefits, pro-bono veteran legal assistance, and financial planning
- a home for the Student Veteran Association Group, Freedom Sharks

For more information about NSU's Veterans Resource Center, find us at *nova.edu/veterans*, email us at *vrc@nova.edu*, or call (954) 262-FLAG (3524).

Certificate of Physical Examination

Most programs require students to have a certificate of physical examination completed by their physician. Forms will be provided to each matriculant as part of the admissions package or can be downloaded from *nova.edu/smc/immunization-forms*.

Students may request that the University Health Service perform these examinations. The University Health Service will make appointments in as timely a manner as possible. The appointments, once made, become an obligation of the student, and must be kept.

These certificates (whether done privately or by the university) will be placed in an appropriate facility.

Immunization Requirements

Students must complete a mandatory immunization form, which must be signed by a licensed health care provider. The form can be found at *nova.edu/smc*.

Students in the Health Professions Division may be required to upload proof of immunizations to multiple online portals to satisfy the requirements of their programs and training facilities where they are assigned.

The following immunizations/vaccinations are required of students at the Health Professions Division based on the current Centers for Disease Control (CDC) recommendations for Health Care Personnel:

Basic Immunizations

Every student is required to have had an immunization for, or show evidence of immunity to, the following diseases before matriculating at Nova Southeastern University (with the exception of the influenza vaccination, which is administered yearly):

Varicella (Chicken Pox)
One of the following is required—Proof of two vaccinations or positive antibody titer. (Lab report is required.)

Measles, Mumps, and Rubella (MMR)
One of the following is required—Proof of two vaccinations or positive antibody titer for measles (rubeola), mumps, and rubella. (Lab report is required.)

Tetanus Toxoid, Diphtheria Toxoid, and Acellular Pertussis Vaccine (Tdap)
All students are required to have had a Tetanus Toxoid, Diphtheria Toxoid, and Acellular Pertussis Vaccine (Tdap) booster prior to matriculation and must maintain immunity by continuing to remain current according to the CDC recommendations for health care personnel during their program. Due to the increased risk of pertussis in a health care setting, the Advisory Committee on Immunization Practices highly recommends health care workers receive a one-time Tdap (ask your health care provider). Tdap is required, without regard to interval of previous dose of Tetanus Toxoid (Td).

Influenza

Vaccinations are administered annually. One dose of the influenza vaccine is required each fall. KPCOM students should refer to their college section for specific instructions concerning the influenza vaccine.

Hepatitis B

- Both of the following are required—Three vaccinations and positive surface antibody titer. (Lab report is required.)
- If the series is in progress, evidence of at least one shot must be provided, and the renewal date will be set accordingly.
- If the titer is negative or equivocal, the student must repeat the series and provide a repeat titer report.

PPD Skin Test (Two Step)

One of the following is required—negative two-step test or negative blood test (such as QuantiFERON Gold Blood Test or T-Spot Test) or, if positive PPD results, provide a chest X-ray and/or prophylactic treatment information within the past 12 months. Please note that some rotation sites may not accept the QuantiFeron Gold Blood Test.

Arrangements

Students may request that the Student Medical Center administer these immunizations. The Student Medical Center will make appointments in as timely a manner as possible. Students may call (954) 262-4100 to make an appointment. Once made, the appointment becomes the student's obligation and must be kept. For students at other NSU campuses, appointments may be scheduled with the NSU-designated physician for their area. Students may also request that the NSU Clinic Pharmacy administer the influenza vaccination.

Students are financially responsible for all required immunizations.

Failure to Comply

The university is not required to provide alternative sites for clinical practicum or rotations should immunization be a requirement for placement. **Therefore, failure to comply with this policy may result in a student's inability to satisfy the graduation requirements in his or her program.**

Relative to clinical rotation site requirements, students are expected to consult their specific college/program handbooks for compliance with any college/program-specific requirements.

Dress Code

Students in the Health Professions Division must maintain a neat and clean appearance befitting students attending professional school. Therefore, attire should convey a professional appearance whenever the student is on the division campus and in classes or laboratory or on an experiential rotation or program. The dress code is to be observed at all times, including during midterms and examination periods. **Students are expected to consult their specific program handbooks for compliance with any program-specific and clinical rotation site-supplemental dress code policies.**

Identification Requirements and Fieldwork Prerequisites

An affiliated clinical/fieldwork teaching facility may also require a student to pass a state of Florida Department of Health screening before rotation. Other requirements that may be held by the affiliated facility include, but are not limited to, physical examination, fingerprinting, a criminal background check, urinalysis for drugs and alcohol, and proof of immunization. If a student does not meet all requirements held by the affiliated facility before the first day of the scheduled placement, the student's placement will be canceled. If the placement has already begun, the student will be asked to leave.

Martin and Gail Press Health Professions Division (HPD) Library

The Martin and Gail Press Health Professions Division Library (Press HPD Library) is located on the first floor at the north end of the Terry Building Complex in the Library/Lab Building. The Press HPD Library consists of a large collaboration area for group study, a designated quiet study area, and 50 study rooms. There are a variety of seating options available, from large tables to individual carrels and informal seating. Study rooms, located in the library as well as the adjacent Assembly I and Assembly II buildings, may be checked out for three hours and renewed based on availability. A paging system is offered for students waiting for an available study room. Additionally, one study room is equipped with a Mediascape collaboration unit with double monitor displays for collaborative group work, and a small teaching lab may be reserved for group instruction.

The Press HPD Library is usually open for more than 110 hours per week, with extended hours during exams. For current hours of operation, please visit the library web page at *nova.edu/hpdlibrary*.

The Press HPD Library print collection consists of 11,100 monograph titles, 716 archived print journal titles, and 85 active print journal subscriptions. The Press HPD Library provides all HPD students with remote access to online resources, including more than 17,000 health-related, full-text *e*Journals; 2,000 biomedical *e*Books; and 200+ health and medicine-specific databases. These resources may be accessed 24/7 through the Press HPD Library website (*nova.edu/hpdlibrary*).

Professional reference services are available to students in person as well as by phone, email, and online via screensharing software. Eight professional librarians are available to assist students with library resources and research-specific assignments. Each HPD college/program is assigned a subject specialist liaison librarian who works closely with faculty and provides instructional sessions for specific class assignments.

The Press HPD Library also provides the following free services to enhance student learning and study:

- Interlibrary Loan/Document Delivery service obtains journal articles, books, and items not available in the NSU collection
- notary service
- binding, faxing, and scanning services
- wireless printing stations
- on-site technology assistance
- I.D.E.A. Labs
  - 3-D printing and scanning: These services are available for students involved in curricular and faculty projects.
  - virtual reality: Students can experience virtual anatomy, simulation and medical-related apps via immersive virtual reality headsets.
  - the studio: This digital production room/studio is available for video recording and editing; cameras and other production equipment can be checked out of the library.

The following additional resources are at the circulation desk (limited checkout times):

- laptop computers
- iPads loaded with medical and production apps
- medical/anatomy apps for checkout on personal Apple devices
- print editions of required textbooks on reserve (for in-library use)
- anatomy models and skeletons (for in-library use)
- individual, small whiteboards and markers
- chargers and extension cords
- earplugs and school supplies (for purchase)
- self-service Keurig coffee machine

For more information, please call (954) 262-3106.

See the University Libraries section of the NSU Student Handbook for information about NSU's Alvin Sherman Library, Research, and Information Technology Center. Visit *nova.edu/student-handbook* for more information.

Tampa Bay Regional Campus Library

The Tampa Bay Regional Campus Library (TBRC Library) is located on the second floor and to the right of the main staircase in the Tampa Bay Regional Campus main building. The TBRC Library is integrated in the campus and consists of a front circulation and information desk, a large collaboration room for group study, and 30 private study rooms. There are a variety of seating options available throughout the building, which are not directly part of the library, but provide students with optional study space. Ten study rooms are located on the second floor. The remaining 20 are located on the third floor. Each study room may be reserved for three hours and renewed based on availability.

Hours of operation for the TBRC Library are

Monday–Thursday: 8:30 a.m.–8:00 p.m.
Friday: 8:30 a.m.–8:00 p.m.*
Saturday: 10:00 a.m.–9:00 p.m.*
Sunday: 10:00 a.m.–2:00 p.m.*

*Hours may vary on select weekends.

The TBRC Library print collection consists of 83 monograph titles, each of which are either required or supplemental textbooks for Tampa Bay programs.

Students at the Tampa Bay Regional Campus have remote access to online resources, including more than 60,000 full-text periodicals, more than 500 databases, and 1,600 *e*Books. These resources may be accessed 24/7 through the TBRC Library web page at *nova.edu/tbrclibrary*.

Professional reference services are available to students in person, as well as by phone, email, and online via screen-sharing software. Two professional librarians are available to assist students with library resources and research-specific assignments on-site. Each HPD college/program is assigned a subject-specialist liaison librarian who works closely with faculty members and provides instructional sessions for specific class assignments. Students and faculty members in non-HPD programs are provided similar assistance from either of the two on-site librarians.

The TBRC Library also provides the following free services to enhance student learning and study:

- Interlibrary Loan/Document Delivery service obtains journal articles, books, and items not available in the NSU collection
- on-site technology assistance
- I.D.E.A. Labs
  - recording studio: This digital production room/studio is available for video recording and editing; cameras and other production equipment can be checked out of the library.

  - remote 3-D printing and scanning: These services are available for students involved in curricular and faculty projects.

The following additional resources are at the circulation desk (limited checkout times):

- medical/anatomy apps for checkout on personal Apple devices
- print editions of required textbooks on reserve (for in-library use)

For more information, please call (813) 574-5420.

See the University Libraries section of the *NSU Student Handbook* for information about NSU's Alvin Sherman Library, Research, and Information Technology Center. Visit *nova.edu/student-handbook* for more information.

University Health Care Centers

The Health Professions Division Health Care Centers serve an important function and are an integral part of the training programs. They provide a vital community function by bringing health care service to areas whose medical needs traditionally have gone unmet.

The Division of Clinical Operations oversees the administration and oversight of the university's health care centers in Miami-Dade and Broward counties. The centers offer health care services to the community, some not available elsewhere, and community outreach programs in the form of free health care education and assessment for vision, medical, speech, behavioral health, physical and occupational therapy, and dental services. Specific information about the clinics and services available to enrolled students are included on the Health Care Centers website at *clinics.nova.edu*.

Center for Student Counseling and Well-Being

The NSU Center for Student Counseling and Well-Being (CSCW) offers student counseling services to the student body of Nova Southeastern University (NSU) to help students maximize their best self academically, personally, and professionally. NSU's clinical partner is Henderson Behavioral Health, a leader in behavioral health care that provides comprehensive, recovery-focused services and is accredited at the highest level for student counseling services by the Commission on the Accreditation of Rehabilitation Facilities (CARF).

Services provided at the CSCW range from stress management and coping strategies to psychiatric assessment and crisis intervention. The center provides the student with an assessment, counseling, consultation, psychiatric services, wellness and recovery education, and, when needed, case management services and linkage or referral. In addition, the Center for Student Counseling and Well-Being provides various outreach programs and support groups on such topics as stress management, transitions to college and grad school, and coping with oneself and others.

Individual, couples, family, and group counseling that utilizes a brief therapy model is provided in a welcoming office environment. The option for telehealth services is also an available when appropriate. Services are scheduled based upon the identified needs and service options chosen by the student. The counselor's goal is to build upon the student's current skill sets for positive behavioral change. Services are provided by licensed counselors, a licensed psychologist, and a licensed psychiatrist. Students enrolled full- or part-time are eligible for 10 counseling sessions per academic year at no cost. Psychiatric services are available and are covered by many commercial insurance plans, or for a nominal fee. Daily appointments are available for new students. Students can register at: *nova.edu/studentcounseling*.

College of Dental Medicine

College of Dental Medicine

Steven I. Kaltman, D.M.D., M.D., FACS
Dean

Mission Statement

To educate future dentists and to improve oral health through patient-centered care, academic excellence, research, leadership, and commitment to the communities we serve, particularly the special needs and underserved populations.

Administration

Steven I. Kaltman, D.M.D., M.D., FACS
Dean

Hal Lippman, D.D.S.
Executive Associate Dean of Operations

Donald Antonson, D.D.S.
Associate Dean—Tampa Bay Regional Campus

Rafael Castellon, D.D.S.
Associate Dean of Clinical Services

Steven M. Kelner, D.M.D., M.S.
Associate Dean of Institutional Affairs

Jodi Kodish-Stav, D.D.S.
Associate Dean of Clinical Informatics

William B. Parker, D.D.S.
Associate Dean of Advanced Education

Sibel Antonson, D.D.S., Ph.D.
Assistant Dean of Research

Audrey L. Galka, D.D.S.
Assistant Dean of Admissions and Student Services

Maria A. Hernandez, D.D.S.
Assistant Dean of Academic Affairs

Mark Schweizer, D.D.S., M.P.H.
Assistant Dean of Community Programs and Public Health

Michael Siegel, D.D.S., M.S.
Assistant Dean of Faculties

Dental Medicine

If you are considering a career in dentistry, your education will focus on becoming a competent, confident, and mature professional, as well as your ability to function as a highly qualified primary care practitioner capable of delivering comprehensive dental care to patients of all ages. For the highly trained and skilled dentist, career opportunities are numerous.

NSU graduates are working in various locations and settings throughout North America. Skilled dentists may practice individually in urban, suburban, or rural environments; join a large, established group practice; or choose public service in governmental agencies or the military. They may opt to specialize, with additional advanced education, in such fields as endodontics, oral pathology, oral and maxillofacial surgery, orthodontics, pediatric dentistry, periodontology, prosthodontics, public health dentistry, or oral-maxillofacial radiology.

For rewards so great, the education is rigorous. The nationally recognized faculty of the Nova Southeastern University College of Dental Medicine (NSU-CDM) will prepare you to take your place as a leader among oral health care providers. A dynamic career awaits a committed individual.

Accreditation

Our predoctoral programs in dentistry and postdoctoral programs in advanced education in general dentistry, endodontics, orthodontics, oral and maxillofacial surgery, periodontology, pediatric dentistry, and prosthodontics are 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.

Facilities

NSU's College of Dental Medicine uses the facilities of a $75 million physical plant of the university's Health Professions Division. A separate building consisting of 70,500 square feet of space is for the sole use of the College of Dental Medicine and houses a clinic providing comprehensive dental care; a postgraduate student dental clinic; a faculty intramural practice; a clinical simulation laboratory; laboratory facilities to support the clinics; seminar rooms; research laboratories; and offices for faculty and staff members.

Commencing May 2022, the Drs. Kiran and Pallavi Patel International Dental Graduate Program at NSU's Tampa

Bay Regional Campus will accept an inaugural class. This 19,000-square-foot, cutting-edge facility will house 66 dental treatment centers, 3 surgical suites, a simulation lab, fully digitalized laboratories, and dedicated supporting offices and classrooms.

Core Performance Standards for Admissions and Progress for all College of Dental Medicine Students and Residents

The Nova Southeastern University Health Professions Division and NSU's College of Dental Medicine are pledged to the admission and matriculation of qualified students and wish to acknowledge awareness of laws that prohibit discrimination against anyone on the basis of race, color, religion or creed, sex, pregnancy status, national or ethnic origin, nondisqualifying disability, age, ancestry, marital status, sexual orientation, gender, gender identity, military service, veteran status, or political beliefs or affiliations. Regarding those students with verifiable disabilities, the university will not discriminate against such individuals who are otherwise qualified, but will expect applicants and students to meet certain minimal technical standards (core performance standards) as set forth herein, with or without reasonable accommodation. In adopting these standards, the university believes it must keep in mind the ultimate safety of the patients whom its graduates will eventually serve, as well as the efficacy and safety in the learning environment. The standards reflect what the university believes are reasonable expectations required of health professions students and personnel in performing common functions. Any exceptions to such standards must be approved by the dean of the student's particular college, based upon appropriate circumstances.

The holders of health care degrees must have the knowledge and skills to function in a broad variety of clinical situations and to render a wide spectrum of patient care. In order to carry out the activities described below, candidates for Health Professions Division degrees must be able to integrate consistently, quickly, and accurately all information received, and they must have the ability to learn, integrate, analyze, and synthesize data. Honor and integrity of the health professions student and health care professional are essential and dependent upon the exemplary behavior of the individual health care provider in his or her relations with patients, faculty and staff members, and colleagues. This includes accountability to oneself and to relationships with fellow students, future colleagues, staff and faculty members, members of the general public, and patients who come under the student's care or contribute to his or her training and growth. This applies to personal conduct that reflects on the student's honesty and integrity in both academic and nonacademic settings, whether or not involving an NSU-sponsored activity. All students must have the capacity to manage their lives and anticipate their own needs. Upon accepting admission to NSU, each student subscribes to, and pledges complete observance to, NSU's Student Code of Conduct Policies. A violation of these standards is an abuse of the trust placed in every student and could lead to suspension or dismissal. Candidates for degrees offered by the Health Professions Division must have, with or without reasonable accommodation, multiple abilities and skills including intellectual, conceptual, integrative, and quantitative abilities; interpersonal communication; mobility and strength; motor skills; and hearing, visual, tactile, behavioral, and social attributes. Candidates for admission and progression must be able to perform these abilities and skills in a reasonably independent manner.

Intellectual, Conceptual, Integrative, and Qualitative Abilities

These abilities include measurement, calculation, reasoning, analysis, and synthesis. Problem solving—a critical skill—requires all of these intellectual abilities. Candidates and students must have critical thinking ability sufficient for good clinical judgment. This is necessary to identify cause/effect relationships in clinical situations and to develop plans of care. In addition, candidates and students should be able to comprehend three-dimensional relationships and to understand the spatial relationships of structures. An individual is expected to be able to perform multiple tasks in a diverse, dynamic, highly competitive, and challenging learning environment. Examples include, but are not limited to, identification of cause/effect relationships in clinical situations, development of treatment plans, transferring knowledge from one situation to another, evaluating outcomes, problem solving, prioritizing, and using short- and long-term memory. They must be able to think quickly and accurately in an organized manner, despite environmental distractions. All individuals are expected to meet their program requirements on a satisfactory level as determined by HPD administration or the applicable college/program administration.

Visual

Candidates and students must have visual ability sufficient for observation, assessment, and rendering of treatment necessary in patient care. It must be consistent in many cases with being able to assess asymmetry, range of motion, and tissue texture changes. Dental medicine students must have sufficient visual ability to use dental instruments. It is necessary to have adequate visual capabilities for proper evaluation and treatment integration. Candidates and students must be able to observe the patient and the patient's responses, including body language and features of the examination and treatment. Students must be able to read and write prescriptions, consultation letters, patient information, and dental product information. Dental medicine students must be able to observe a patient accurately, at a distance and close

up, interpreting nonverbal communications, while performing dental procedures or administering medications. A student must be able to perform dental examinations and treatments that require the use of sight and touch. The student must be able to see fine detail, focus at a variety of distances, and discern differences and variations in color, shape, and texture that are necessary to differentiate normal and abnormal soft and hard tissues. A student must also possess the visual acuity to read charts, records, radiographs, diagnostic images, small print, and handwritten notation.

Tactile

Candidates and students must have sufficient tactile ability for physical assessment. Dental medicine students must be able to deliver appropriate treatment using high technology equipment, such as dental drills and surgical instruments. The student must be able to use tactile senses to diagnose directly by palpation and indirectly by sensations transmitted through instruments. Examples include, but are not limited to, detection of dental hard and soft tissue conditions, use of hand instruments, and performance of palpation for purposes of intra and extra oral exam.

Sensory

Dental medicine students must be able to acquire information through demonstrations and experiences in basic science and dental science courses. This information includes, but is not limited to, information conveyed through a variety of mechanisms, such as microscopic images of microorganisms and tissues in normal and pathologic states, demonstration and skill exercises of techniques using dental models, etc. A student must be able to acquire information from written documents and to evaluate information presented as images from digital platforms, paper, films, slides, or video. A student must be able to benefit from electronic and other instrumentation that enhances visual, auditory, and somatic sensations needed for examination or treatment.

Behavioral and Social Attributes

Candidates and students must possess the emotional health required for full use of their intellectual abilities; the exercise of good judgment; the ability to take responsibility for their own actions—with respect to policies, protocols, and process—with students, faculty and staff members, patients, patient surrogates, and administration during the student's educational program; the prompt completion of all responsibilities attendant to the diagnosis, care, and treatment of patients; and the development of mature, sensitive, and effective relationships with the patients. Candidates and students must be able to physically tolerate taxing workloads, to adapt to changing environments, to display flexibility, and to learn to function in the face of uncertainties inherent in the clinical problems of many patients. Compassion, diversity, integrity, concern for others, interpersonal skills, interest, and motivation are all personal qualities that will be assessed during the admissions and during the students' education process.

Predoctoral Program

Admissions Requirements

NSU's College of Dental Medicine selects students based on preprofessional academic performance, Dental College Admission Test (DAT) scores, personal interview, written application, and letters of evaluation.

1. Prior to matriculation, applicants must have completed a minimum of 90 semester hours of coursework at a regionally accredited college or university. Not more than 60 semester hours from community or junior college will be applied to the 90-semester hour minimum.

2. Students should have a cumulative grade point average (GPA) of 3.25 or higher on a 4.0 scale. In addition, students should have a science grade point average of 3.25 or higher on a 4.0 scale. Students must have earned a grade of 2.0 or better in each of the following required courses:

- Biology with lab (8 semester hours)
- Chemistry with lab (8 semester hours)
- Organic chemistry with lab (8 semester hours)
- Physics with lab (8 semester hours)
- Biochemistry (3 semester hours)
- Microbiology (3 semester hours)
- English (6 semester hours)

Suggested Additional Preparation

Courses should be selected to give students as broad and liberal an education as possible. However, applicants are encouraged to take these specific upper division courses in advanced sciences: anatomy, physiology, cell biology, molecular biology, histology, genetics, and immunology.

Courses in social sciences, principles of management, accounting, communication, foreign languages, art, and sculpture may contribute to a broad educational background.

Upon review of a student's individual record, the Committee on Admissions may require additional coursework and testing as a condition of acceptance. The dean may evaluate an applicant's qualifications and modify requirements in unusual circumstances. Inquiries should be directed to

Nova Southeastern University
Health Professions Division
Dental Admissions
3200 South University Drive
Fort Lauderdale, FL 33328-2018

(954) 262-1101 • 877-640-0218

Transfer of Credit Policy

Circumstances may warrant that a student enrolled in one dental school seeks to transfer to another institution. Credits may only be transferred from a dental school accredited by the Commission on Dental Accreditation. The Office of the Assistant Dean for Academic Affairs will evaluate a prospective transfer student's coursework, which must be comparable to that of Nova Southeastern University College of Dental Medicine (NSU-CDM).

- Transfer students from another dental school will be required to complete, at minimum, their last two years of instruction at the college granting the dental degree (i.e., NSU-CDM).

Transfer credits will be given consideration based upon the student's academic standing, as well as documentation from the dean or dean's designee of previous dental school(s).

- Credit is only given for completed courses with a grade of 70 percent (*C*) or better from the applicant's previous dental school(s).

Any dental student wishing to apply for transfer to Nova Southeastern University's College of Dental Medicine must

1. make a formal application to Nova Southeastern University College of Dental Medicine

2. meet all the predoctoral admission requirements, which include submitting official transcripts of all college work (including dental school transcripts); DAT scores; National Board scores, if taken; and two letters of evaluation (No transfer student will be accepted without an interview.)

3. be in good standing at the student's current institution, as documented by a letter from the dean of that institution

4. supply a letter of recommendation from a faculty member of the transferring dental school

5. supply a written statement outlining the reasons for the request for transfer

Transfer applicants can refer to the NSU website for the Transfer Credit for Graduate and Professional Programs Policy. Decisions on transfers are made by the dean's office. The decision will be based on factors which include, but are not limited to, academic record, circumstances leading to the transfer request, available space, and compliance with admissions standards.

Application Procedures

1. Nova Southeastern University College of Dental Medicine uses the ADEA-Associated American Dental Schools Application Service (ADEA AADSAS). ADEA AADSAS takes no part in the selection of students. The application deadline for the ADEA AADSAS application is November 15 for the class entering in August.

Applications are available by calling (202) 667-1886 or 800-353-2237.

Applicants may also obtain their application through *adea.org*.

Materials to be submitted to ADEA AADSAS include the following:

- an official transcript from the registrar of each college or university in which the student was enrolled (mailed directly by the college to ADEA AADSAS)

  Your registrar should mail your paper transcript to

  ADEA AADSAS Transcript Processing Center
  PO Box 9110
  Watertown, MA 02471

  ADEA AADSAS also accepts electronic transcripts from Credentials Solutions, Parchment, and National Student Clearinghouse.

- official Dental College Admission Test (DAT) scores

  Contact ADA to have your official scores sent to ADEA AADSAS.

- an evaluation by a preprofessional health adviser or committee from the applicant's undergraduate institution

  If this evaluation cannot be provided, three individual letters of evaluation are required from undergraduate instructors, two from science instructors, and one from a liberal arts instructor. If possible, these letters should be from faculty members who know the applicant's scholastic abilities and personal character. Otherwise, they should be from people (nonrelatives) who can provide an evaluation to the Committee on Admissions.

- a letter of evaluation from a dentist (highly recommended but not required)

2. The applicant will be required to provide the following materials to the Office of Admissions by December 15:

- the supplemental application (electronically submitted to the College of Dental Medicine)
- a nonrefundable application fee of $50

Upon receipt of the completed application and the required credentials, the Committee on Admissions will select applicants for interview. Those selected will be notified in writing of the time and place. All applicants who are admitted by the college must be interviewed, but an invitation to appear for an interview should not be construed as evidence of acceptance. Notice of acceptance or other action by the Committee on Admissions will be on a "rolling" or periodic schedule; therefore, early completion of the application is in the best interest of the student.

Final official transcripts, covering all of the applicant's work, must be forwarded to Nova Southeastern University, Enrollment Processing Services, College of Dental Medicine Admissions, 3301 College Avenue, P.O. Box 299000, Fort Lauderdale, FL 33329-9905.

Incomplete applications will not be considered. If your file will not be complete prior to the deadline, please attach a statement to the NSU-CDM Supplemental Application for Admission explaining what documents will be submitted after the deadline and the reason for their delay. Decisions to review late applications are at the discretion of the Committee on Admissions.

Applicants Who Studied at Foreign Institutions

ADEA AADSAS requires applicants to request foreign evaluations from World Education Services, Inc. (WES), Educational Credential Evaluators, Inc. (ECE), or International Credential Advantage Package (ICAP) only. You can request electronic WES, ICAP, or ECE course-by-course evaluations directly through the application website (*https://aadsas.liaisoncas.com/applicant-ux/#/login*).

Tuition and Fees

- Tuition for 2021–2022 (subject to change by the board of trustees without notice) will be posted on our website (*dental.nova.edu*). A Dental Medicine Program General Access Fee of $145 and an NSU Student Services Fee of $1,500 are both required annually. A registration fee of $30 is required each semester. Eligible students must request in-state tuition on application. For tuition purposes, a student's Florida residency status (in-state or out-of-state) will be determined at initial matriculation and will remain the same throughout the entire enrollment of the student at NSU. Accordingly, tuition will not be adjusted as a result of any change in residency status after initial enrollment registration.
- Acceptance fee is $1,000. This fee is required to reserve the accepted applicant's place in the entering first-year class. This advance payment will be deducted from the tuition payment due on registration day, but is not refundable in the event of a withdrawal. Applicants accepted between December 1 and January 31 have 30 days to pay their acceptance fee. Applicants accepted on or after February 1 are required to submit their acceptance fee within 15 days. Applicants accepted after May 15 must pay their acceptance fee immediately.
- Preregistration fee is $1,000 and is due March 15, under the same terms as the acceptance fee.

The first semester's tuition and fees, less the $2,000 previously paid, are due on or before registration day. Tuition for each subsequent semester is due on or before the appropriate registration day. Students will not be admitted until their financial obligations have been met.

Expenses and Financial Aid for Four-Year Predoctoral Programs

Students should anticipate the following approximate expenses for books and learning materials:

- first year—$4,600
- second year—$5,340
- third year—$5,950
- fourth year—$8,100

Students should anticipate the following approximate expenses for instruments and equipment and supplies:

- first year—$14,000
- second year—$7,000
- third year—$3,000
- fourth year—$1,500

It is extremely important that applicants be committed to meeting their financial responsibilities during their four years of training. This should include tuition, living expenses, books, equipment, and miscellaneous expenses.

It is mandated that each student carry adequate personal medical and hospital insurance. Students may avail themselves of the medical and hospital insurance plans obtainable through the university.

Students will need to access an electronic device to meet program requirements. The university has computer labs. However, it is required for new, incoming students to have an iPad 2018 or newer (iPad, iPadpro, or iPadmini).

International Dental Graduates

The College of Dental Medicine offers a 39-month program for graduates of non-U.S. dental schools who wish to earn a U.S. dental degree in order to qualify for licensure in the United States.

Admissions Requirements

NSU's College of Dental Medicine selects students based on academic records; letters of evaluation; a computer-generated minimum score of 80 in the Test of English as a Foreign Language (TOEFL), a score of 6.0 on the International English Language Testing System (IELTS), or a score of 54 on the Pearson Test of English—Academic; a pass score on Part I of the National Board Dental Examination or the Integrated National Board Dental Examination; a translated GPA of the American equivalent of a 3.0; a personal interview; and a psychomotor bench test. The psychomotor bench test may include the following: typodont tooth preparation for amalgam and typodont tooth preparation for a full metal crown. Procedures in the bench test are subject to change.

In order to participate in the bench test, a qualifying score on the TOEFL, IELTS, or Pearson Test of English—Academic exam and the National Board of Dental Examination, Part I, or the Integrated National Board Dental Examination must be received by the Office of Admissions prior to the date of the bench test examination.

All materials needed for the above will be provided by NSU-CDM. The fee for this psychomotor bench test will be $2,500. This fee is in addition to the tuition for the IDG program, should the applicant be selected for admission.

In order to qualify, the applicant must have received, prior to matriculation in this International Dental Graduate Program, a D.M.D., D.D.S., or their equivalent, from a non-U.S. dental school.

Application Procedures

Applicants must apply to the Centralized Application for Advanced Placement for International Dentists (CAAPID). They may choose to either fill out an electronic application or download a paper application. Send all supporting documents listed below to CAAPID by December 15.

1. a CAAPID application

2. an official transcript from each college, professional school, or university attended, if coursework was taken at a U.S. institution

3. an official course-by-course evaluation and cumulative GPA

Coursework taken at foreign institutions must be evaluated for U.S. institution equivalence by an approved National Association of Credential Evaluation Services (NACES) organization, such as one of the services listed below.

- World Education Services, Inc.
  Attn: Documentation Center
  Bowling Green Station
  P.O. Box 5087
  New York, NY 10274-5087
  (212) 966-6311 • 800-361-3106 • *wes.org*

- Josef Silny & Associates, Inc.,
  International Education Consultants
  7101 SW 102 Avenue
  Miami, FL 33173
  (305) 273-1616 • (305) 273-1338 fax
  info@jsilny.org • *jsilny.org*

- Educational Credential Evaluators, Inc.
  101 West Pleasant Street, Suite 200
  Milwaukee, WI 53212-3963
  (414) 289-3400 • *ece.org*

It is the applicant's responsibility to have this coursework evaluated. An official course-by-course evaluation with a cumulative grade point average must be sent directly from the evaluation service to CAAPID.

4. an official score from the Test of English as a Foreign Language (TOEFL), from the International English Language Testing System (IELTS), or from the Pearson Test of English—Academic, if applicable

5. scores for Part I of the Nation Dental Board Examination or Integrated National Dental Board Examination

Applicant must request the scores be forwarded from the secretary of the National Board of Dental Examiners, located at 211 East Chicago Avenue, Chicago, IL 60611, directly to CAAPID. Applicant should submit PART II scores also, if taken.

6. three professional letters of recommendation

Letters may be completed by dental school faculty members who are well acquainted with the applicant's abilities or by individuals who can provide information relevant to the applicant's potential.

Upon receipt of the applicant's CAAPID application, NSU will notify the applicant to fill out an NSU application and submit it with a nonrefundable, $50 application fee. Please submit the fee and supplemental application to NSU's Enrollment Processing Services (EPS) at the address below.

Nova Southeastern University
Enrollment Processing Services
College of Dental Medicine, Office of Admissions
3301 College Avenue, P.O. Box 299000
Fort Lauderdale, FL 33329-9905

Tuition and Fees

- Tuition for 2021–2022, 39-month, IDG program (subject to change by the board of trustees without notice) will be posted on our website (*dental.nova.edu*).
- A Dental Medicine Program General Access Fee of $145 and an NSU Student Services Fee of $1,500 are both required annually.
- A registration fee of $30 is required each semester.
- Acceptance fee is $1,000. This fee is required to reserve the accepted applicant's place in the entering first-year class. This advance payment will be deducted from the tuition payment due on registration day, but is not refundable in the event of a withdrawal. Applicants accepted between December 1 and January 31 have 30 days to pay their acceptance fee. Applicants accepted on or after February 1 are required to submit their acceptance fee within 15 days. Applicants accepted after May 15 must pay their acceptance fee immediately.
- Preregistration fee is $1,000 and is due March 15, under the same terms as the acceptance fee.

The first semester's tuition and fees, less the $2,000 previously paid, are due on or before registration day. Tuition for each subsequent semester is due on or before the appropriate registration day. Students will not be admitted until their financial obligations have been met.

Expenses and Financial Aid for Three-Year Predoctoral Programs

Students should anticipate the following approximate expenses for books and learning materials:

- first year—$7,340
- second year—$5,200
- third year—$8,100

Students should anticipate the following approximate expenses for instruments and equipment and supplies:

- first year—$15,500
- second year—$3,500
- third year—$1,000

Students will need to access an electronic device to meet program requirements. The university has computer labs; however, it is recommended that students have an electronic device of their choice.

It is extremely important that applicants be committed to meeting their financial responsibilities during their three years of training. This should include tuition, living expenses, books, equipment, and miscellaneous expenses.

It is mandated that each student carry adequate personal medical and hospital insurance. Students may avail themselves of the hospitalization insurance plan obtainable through the university.

For all predoctoral students, the purpose of the Student Financial Assistance Program at Nova Southeastern University is to help as many qualified students as possible to complete their health professions education. Various loans, scholarships, and grants are available to qualified students to help ease the high cost of a health professions education. These financial assistance programs are described in a variety of separate university publications.

Opportunities for a limited number of part-time work assignments may be available. However, the demands of a program of professional study limit the number of hours a student can work.

Policies Related to Academic and Student Affairs

The policies regarding suspension, dismissal, readmission and other academic and student policy issues are described in the *College of Dental Medicine Predoctoral Student Handbook*, which is revised, updated, and distributed annually to all predoctoral dental medicine students.

Graduation Requirements

To receive a D.M.D. degree from NSU's College of Dental Medicine, every student must fulfill the following requirements:

- be of good moral character
- have demonstrated the ethical, personal, behavioral, and professional attributes deemed necessary for the successful and continued study and practice of dental medicine including sound judgment and decision making
- have successfully passed all required courses in the predoctoral curriculum, including electives and honors courses
- have demonstrated learning on an ongoing and full-time basis through the last day of his or her predoctoral program (this includes evidence of the student's ongoing participation in continued and comprehensive patient care, as well as attendance to all classes)
- have satisfactorily completed all clinical requirements, experiences, and competency examinations
- have completed all coursework and courses in the CDM within four years from the date of matriculation, exclusive of any approved leave of absence in good standing (under extenuating circumstances and at the discretion of the dean, the student will be allowed a maximum of five years from

the date of matriculation—exclusive of any approved leave of absence in good standing—to complete all coursework and courses)

- have successfully completed all assigned curriculum requirements for the D.M.D. degree with a numerical average of 70 percent or higher for students graded on a numerical grade system, and a GPA of *C* (2.0) or higher for students graded on the alpha letter system
- have passed the National Board Dental Examination (NBDE) Part I or CDM-designated comprehensive exam
- have satisfactorily met all financial and library obligations
- have attended, in person, the commencement program at which the D.M.D. degree is awarded
- have complied with any other university or Health Professions Division graduation requirements

Degrees are not awarded solely upon the completion of any prescribed number of courses or upon passing a prescribed number of examinations but, in addition, when the faculty believes that the student has attained sufficient maturity of thought and proficiency. **Matriculation and enrollment do not guarantee the issuance of a degree without satisfactorily meeting the aforementioned curriculum and degree requirements.**

Course of Study

NSU's College of Dental Medicine embodies a comprehensive didactic and group practice clinic model curriculum designed to graduate competent and compassionate clinicians devoted to comprehensive primary care of each patient.

The college is closely allied with Nova Southeastern University's College of Osteopathic Medicine and the other health professions colleges of the NSU Health Professions Division, in proximity as well as in academic collaboration.

Early introduction into clinical settings under the preceptorship of faculty members will enable the student to achieve a better understanding of the dynamics of the patient/dentist relationship. It also will reinforce classroom instruction in basic and behavioral sciences to allow for management and delivery of quality dental health care as a component of total body health.

Students will be taught the importance of teamwork in an efficient, modern health care delivery system.

2021–2022 Curriculum Outline

Calculations based on an 18-week semester (subject to change)

Fall 2021—D1, Class of 2025			Contact	Laboratory	Credit Hours
CDM	1000	Anatomy Lecture/Laboratory	48	34	5
CDM	1015	Clinical Experience Rotation I	2	6	1
CDM	1025	Dental Biochemistry and Nutrition	84	0	5
CDM	1030	Histology and Embryology Lecture/Laboratory	36	36	3
CDM	1050	Ethics and Professionalism I	18	0	1
CDM	1070	Periodontology I (continued in Winter 2022—D1)	7	0	1
CDM	1205	Primary Care and Public Health I (continued in Winter 2022—D1)	8	0	1
CDM	1110	Microbiology	45	0	3
CDM	1135	Introduction to Dental Record Keeping (EHR I) (continued in Winter 2022—D1)	1	2	1
CDM	1203	Evidence-Based Dentistry I	8	0	1
CDM	1155	Integrated Restorative Dental Sciences (IRDS) Lecture I	74	0	5
CDM	1156	Integrated Restorative Dental Sciences (IRDS) Laboratory I	0	146	4

Winter 2022—D1, Class of 2025			Contact	Laboratory	Credit Hours
CDM	1016	Clinical Experience Rotation II (continued in Summer 2022—D1)			1
CDM	1051	Ethics and Professionalism II	14	0	1
CDM	1070	Periodontology I (continued from Fall 2021—D1)	12	0	1
CDM	1111	Immunology	30	0	2
CDM	1120	Physiology	58	0	4
CDM	1125	Pathology I	35	0	2
CDM	1130	Neuroanatomy Lecture/Laboratory	36	18	3
CDM	1135	Introduction to Dental Record Keeping (EHR I) (continued from Fall 2021—D1)	0	3	1
CDM	1160	Oral Histology	18	0	1
CDM	1185	Introduction to Clinical Periodontology	0	8	1
CDM	1205	Primary Care and Public Health I (continued from Fall 2021—D1)	8	0	1
CDM	1255	Integrated Restorative Dental Sciences (IRDS) Lecture II	57	0	4
CDM	1266	Integrated Restorative Dental Sciences (IRDS) Laboratory II	0	108	4

Summer 2022—D1, Class of 2025			Contact	Laboratory	Credit Hours
CDM	1016	Clinical Experience Rotation II (continued from Winter 2022—D1)	1	15	1
CDM	1357	Case-Based Integrated Restorative Sciences III Lecture and Laboratory	8	53	3
CDM	2050	Endodontics—Basic Principles and Formative Concepts (continued in Fall 2022—D2)			1
CDM	2060	Endodontic Laboratory (continued in Fall 2022—D2)			1
CDM	2005	Craniofacial Growth and Development	10	0	1
CDM	2135	Essentials of the Electronic Health Record (EHR II)	0	8	1
CDM	2140	Introduction to Oral Medicine	16	0	1
CDM	2501	Periodontology Clinic (continued in Fall 2022—D2)			1
CDM	2125	Pathology II	20	0	1.5
CDM	2025	IDG Integrated Restorative Dentistry Lecture and Lab	23	67	5

CDM	2185	IDG Clinical Periodontology Orientation	2	8	1
CDM	2175	QA/Recare Clinical Rotation I (continued in Fall 2022—D2)			1
CDM	2110	Radiology I	16	0	1

Fall 2021—D2, Class of 2024			Contact	Laboratory	Credit Hours
CDM	2010	Pharmacology I	62	0	4
CDM	2030	Periodontology II	18	0	1
CDM	2040	Pharmacology, Analgesia, and Local Anesthesia I	18	0	1
CDM	2050	Endodontics—Basic Principles and Formative Concepts (continued from Summer 2021—D1)	24	0	1
CDM	2060	Endodontics Laboratory (continued from Summer 2021—D1)	0	93	2
CDM	2070	Fixed Prosthodontics Lecture I	36	0	2
CDM	2080	Fixed Prosthodontics Laboratory I	0	108	2
CDM	2081	Introduction to Pediatric Dentistry	18	0	1
CDM	2085	Introduction to Special Needs Dentistry	36	0	2
CDM	2095	Preclinical Removable Prosthodontics Lecture I	36	0	2
CDM	2096	Preclinical Removable Prosthodontics Laboratory I	0	108	1
CDM	2101	Dental Biomaterials Lecture II	18	0	1
CDM	2140	Introduction to Oral Medicine (continued from Summer 2021—D1) (continued in Winter 2022—D2)			1
CDM	2175	QA/Recare Clinical Rotation I (continued from Summer 2021—D1) (continued in Winter 2022—D2)			1
CDM	2280	Internal Medicine for Dentists	36	0	2
CDM	2501	Periodontology Clinic (continued from Summer 2021—D1) (continued in Winter 2022—D2)			1
CDM	2505	Radiology Preclinical Laboratory (continued in Winter 2022—D2)			1
CDM	2001	Honors Peer Tutoring II			1

Winter 2022—D2, Class of 2024			Contact	Laboratory	Credit Hours
CDM	2120	Oral and Maxillofacial Diagnosis I	18	0	1
CDM	2130	Pharmacology II	48	0	3
CDM	2140	Introduction to Oral Medicine	18	0	1
CDM	2150	Oral and Maxillofacial Surgery I	18	27	1
CDM	2160	Periodontology III	18	0	1
CDM	2170	Pharmacology, Analgesia, and Local Anesthesia II	18	0	2
CDM	2175	QA/Recare Clinical Rotation I (continued from Fall 2021—D2)	5	15	1
CDM	2180	Pediatric Dentistry Lecture	36	0	2
CDM	2190	Pediatric Dentistry Laboratory	0	54	1
CDM	2197	Preclinical Removable Prosthodontics Lecture II	22	0	2
CDM	2198	Preclinical Removable Prosthodontics Laboratory II	0	22	1
CDM	2200	Orthodontics Lecture/Laboratory	36	36	3
CDM	2241	Introduction to Comprehensive Treatment Planning	18	0	1
CDM	2242	Axium EHR Treatment Planning Module	10.5	10.5	1
CDM	2250	Endodontic Clinical Lecture	18	0	1
CDM	2260	Fixed Prosthodontics Lecture II	8	0	1
CDM	2270	Fixed Prosthodontics Laboratory II	0	32	1
CDM	2501	Periodontology Clinic (continued from Fall 2021—D2)			1
CDM	2505	Radiology Preclinical Laboratory (continued from Fall 2021—D2)	0	9	1
CDM	2995	Clinical Practice of Dentistry Fundamentals	13	40	2
CDM	2001	Honors Peer Tutoring II			1

Summer 2022—D2, Class of 2024			Contact	Laboratory	Credit Hours
CDM	2999	Clinic Prerequisite Orientation	35	0	1
CDM	3000	Applied Patient Care Foundations I (continued in Fall 2022—D3)			1
CDM	3500	Clinical Restorative Dentistry I (continued in Fall 2022—D3)			1
CDM	3410	Clinical Fixed Prosthodontics I (continued in Fall 2022—D3)			1

CDM	3411	Clinical Removable Prosthodontics I (continued in Fall 2022—D3)			1
CDM	3501	Clinical Periodontology I (continued in Fall 2022—D3)			1
CDM	3503	Clinical Periodontology Rotation (continued in Fall 2022—D3)			1
CDM	3621	Clinical Endodontic Practice I (continued in Fall 2022—D3)			1
CDM	3507	Clinical OMFS Rotation I (continued in Fall 2022—D3)			1
CDM	3525	Clinical Pediatric Dentistry Rotation I (continued in Fall 2022—D3)			1
CDM	3650	Clinical Radiology I (continued in Fall 2022—D3)			1
CDM	3200	Laboratory and Clinical Applications of Occlusion	8	10	1
CDM	3175	QA/Recare Clinical Rotation II (continued in Fall 2022—D3)			1
CDM	3277	Digital Dentistry: CAD/CAM and 3-D Printing Technologies	8	24	1
CDM	3605	Orthodontic Clinical Comanagement Program			1
CDM	2001	Honors Peer Tutoring II			1

Fall 2021—D3, Class of 2023			Contact	Laboratory	Credit Hours
CDM	3010	Oral and Maxillofacial Diagnosis II	18	0	1
CDM	3020	Oral Medicine	18	0	1
CDM	3030	Periodontology IV	18	0	1
CDM	3040	Oral and Maxillofacial Surgery II	18	0	1
CDM	3120	Implant Restorative Dentistry Lecture	18	0	1
CDM	3130	Cosmetic Dentistry Lecture	16	0	1
CDM	3131	Cosmetic Dentistry Laboratory	0	24	1
CDM	3175	QA/Recare Clinical Rotation II (continued from Summer 2021—D2) (continued in Winter 2022—D3)			1
CDM	3410	Clinical Fixed Prosthodontics I (continued from Summer 2021—D2) (continued in Winter 2022—D3)			1
CDM	3411	Clinical Removable Prosthodontics I (continued from Summer 2021—D2) (continued in Winter 2022—D3)			1

CDM	3000	Applied Patient Care Foundations I (continued from Summer 2021—D2) (continued in Winter 2022—D3)			1
CDM	3500	Clinical Restorative Dentistry I (continued from Summer 2021—D2) (continued in Winter 2022—D3)			1
CDM	3501	Clinical Periodontology I (continued from Summer 2021—D2) (continued in Winter 2022—D3)			1
CDM	3503	Clinical Periodontology Rotation (continued from Summer 2021—D2) (continued in Winter 2022—D3)			1
CDM	3507	Clinical OMFS Rotation I (continued from Summer 2021—D2) (continued in Winter 2022—D3)			1
CDM	3525	Clinical Pediatric Dentistry Rotation I (continued from Summer 2021—D2) (continued in Winter 2022—D3)			1
CDM	3530	Evidence-Based Dentistry in Clinical Practice	18	0	1
CDM	3621	Clinical Endodontic Practice I (continued from Summer 2021—D2) (continued in Winter 2022—D3)			1
CDM	3605	Orthodontic Clinical Comanagement Program (continued in Winter 2022—D3)			1
CDM	3650	Clinical Radiology I (continued from Summer 2021—D2) (continued in Winter 2022—D3)			1
CDM	3001	Honors Peer Tutoring III			1

Winter 2022—D3, Class of 2023			Contact	Laboratory	Credit Hours
CDM	3011	Oral and Maxillofacial Diagnosis III	18	0	1
CDM	3021	Common Oral Conditions	18	0	1
CDM	3080	Behavioral Science	36	8	2
CDM	3090	Introduction to the Dental Profession	18	0	1
CDM	3140	Special Needs Dentistry	18	0	1
CDM	3175	QA/Recare Clinical Rotation II (continued from Fall 2021—D3)	5	50	2
CDM	3241	Comprehensive Treatment Planning	18	0	1
CDM	3260	Masticatory System Disorders: A Multidisciplinary Approach	31	0	2
CDM	3410	Clinical Fixed Prosthodontics I (continued from Fall 2021—D3)			11

CDM	3411	Clinical Removable Prosthodontics I (continued from Fall 2021—D3)			11
CDM	3000	Applied Patient Care Foundations I (continued from Fall 2021—D3)			13
CDM	3500	Clinical Restorative Dentistry I (continued from Fall 2021—D3)			10
CDM	3501	Clinical Periodontology I (continued from Fall 2021—D3)			2
CDM	3503	Clinical Periodontology Rotation (continued from Fall 2021—D3)	0	20	1
CDM	3507	Clinical OMFS Rotation I (continued from Fall 2021—D3)	0	50	1
CDM	3525	Clinical Pediatric Dentistry Rotation I (continued from Fall 2021—D3)	0	18	1
CDM	3605	Orthodontic Clinical Comanagement Program (continued from Fall 2021—D3)	0	30	1
CDM	3621	Clinical Endodontic Practice I (continued from Fall 2021—D3)	0	12	1
CDM	3650	Clinical Radiology I (continued from Fall 2021—D3)	0	42	2
CDM	3001	Honors Peer Tutoring III			1

Summer 2022—D3, Class of 2023			Contact	Laboratory	Credit Hours
CDM	4501	Clinical Periodontology II (continued in Fall 2022—D4)			1
CDM	4500	Clinical Restorative Dentistry II (continued in Fall 2022—D4)			1
CDM	4410	Clinical Fixed Prosthodontics II (continued in Fall 2022—D4)			1
CDM	4411	Clinical Removable Prosthodontics II (continued in Fall 2022—D4)			1
CDM	4621	Clinical Endodontic Practice II (continued in Fall 2022—D4)			1
CDM	4505	Clinical Dental Urgent Care Rotation (continued in Fall 2022—D4)			1
CDM	4507	Clinical OMFS Rotation II (continued in Fall 2022—D4)			1
CDM	4525	Clinical Pediatric Dentistry Rotation II (continued in Fall 2022—D4)			1
CDM	4555	Dental Auxiliary Utilization (continued in Fall 2022—D4)	1		1

CDM	4650	Clinical Radiology II (continued in Fall 2022—D4)			1
CDM	4700	Extramural Primary Care Rotation (continued in Fall 2022—D4)			1
CDM	4175	QA/Recare Clinical Rotation III (continued in Fall 2022—D4)			1
CDM	4002	Applied Patient Care Foundations II (continued in Fall 2022—D4)			1
CDM	4222	Laser Dentistry Elective	8	0	1
CDM	402H	Honors Program in Periodontics (continued in Fall 2022—D4)			1
CDM	408H	Honors Program in Oral and Maxillofacial Surgery (continued in Fall 2022—D4)			1
CDM	412H	Honors Program in Prosthodontics (continued in Fall 2022—D4)			1
CDM	414H	Honors Program in Orthodontics and Dentofacial Orthopedics (continued in Fall 2022—D4)			1
CDM	404H	Oral Medicine Honors (continued in Fall 2022—D4)			1
CDM	3001	Honors Peer Tutoring III			1

Fall 2020—D4, Class of 2021			Contact	Laboratory	Credit Hours
CDM	4060	Practice Management	16	0	1
CDM	4120	Regional Board Prep Course (continued in Winter 2022—D4)	5	10	1
CDM	4170	Oral Manifestations of Disease	16	0	1
CDM	4175	QA/Recare Clinical Rotation III (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4240	Advanced Comprehensive Treatment Planning	18	0	1
CDM	4410	Clinical Fixed Prosthodontics II (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4411	Clinical Removable Prosthodontics II (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4500	Clinical Restorative Dentistry II (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4501	Clinical Periodontology II (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1

CDM	4002	Applied Patient Care Foundations II (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4505	Clinical Dental Urgent Care Rotation (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4507	Clinical OMFS Rotation II (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4555	Dental Auxiliary Utilization (starts in Summer—D3; continued in Fall 2021—D4) (continued in Winter 2022—D4)			1
CDM	4525	Clinical Pediatric Dentistry Rotation II (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4621	Clinical Endodontic Practice II (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4650	Clinical Radiology II (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4700	Extramural Primary Care Rotation (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4999	Advanced Techniques in Pain and Anxiety Control	18	0	1
CDM	403E	Elective Program in Endodontics (continued in Winter 2022—D4)			1
CDM	400H	Honors Endodontics (continued in Winter 2022—D4)			1
CDM	402H	Honors Program in Periodontics (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	410H	Honors Program in Pediatric Dentistry (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	412H	Honors Program in Prosthodontics (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	414H	Honors Program in Orthodontics and Dentofacial Orthopedics (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	408H	Honors Program in Oral and Maxillofacial Surgery (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1

CDM	404H	Oral Medicine Honors (continued from Summer 2021—D3) (continued in Winter 2022—D4)			1
CDM	4001	Honors Peer Tutoring IV			1

Winter 2021—D4, Class of 2021			Contact	Laboratory	Credit Hours
CDM	4120	Regional Board Prep Course (continued from Fall 2021—D4)	0	72	1
CDM	4501	Clinical Periodontology II (continued from Fall 2021—D4)			2
CDM	4500	Clinical Restorative Dentistry II (continued from Fall 2021—D4)			11
CDM	4621	Clinical Endodontic Practice II (continued from Fall 2021—D4)			2
CDM	4002	Applied Patient Care Foundations II (continued from Fall 2021—D4)			13
CDM	4410	Clinical Fixed Prosthodontics II (continued from Fall 2021—D4)			11
CDM	4411	Clinical Removable Prosthodontics II (continued from Fall 2021—D4)			11
CDM	4020	Clinical Oral Medicine Case Presentations	16	0	1
CDM	4175	QA/Recare Clinical Rotation III (continued from Fall 2021—D4)	3	14	1
CDM	4505	Clinical Dental Urgent Care Rotation (continued from Fall 2021—D4)	0	45	1
CDM	4507	Clinical OMFS Rotation II (continued from Fall 2021—D4)	0	50	1
CDM	4525	Clinical Pediatric Dentistry Rotation II (continued from Fall 2021—D4)	0	28	2
CDM	4555	Dental Auxiliary Utilization (continued from Fall 2021—D4)		48	1
CDM	4650	Clinical Radiology II (continued from Fall 2021—D4)			1
CDM	4700	Extramural Primary Care Rotation (continued from Fall 2021—D4)	0	75	7
CDM	400H	Honors Endodontics (continued from Fall 2021—D4)	10	0	1
CDM	402H	Honors Program in Periodontics (continued from Fall 2021—D4)	42	4	3
CDM	414H	Honors Program in Orthodontics and Dentofacial Orthopedics (continued from Fall 2021—D4)	36	0	2

CDM	404H	Oral Medicine Honors (continued from Fall 2021—D4)	48	0	1
CDM	412H	Honors Program in Prosthodontics (continued from Fall 2021—D4)	54	0	1
CDM	403E	Elective Program in Endodontics (continued from Fall 2021—D4)	14	0	1
CDM	425E	Forensic Odontology Elective	8	4	1
CDM	426E	Cone Beam CT Elective	4	0	1
CDM	410H	Honors Program in Pediatric Dentistry (continued from Fall 2021—D4)	22	0	2
CDM	408H	Honors Program in Oral and Maxillofacial Surgery (continued from Fall 2021—D4)			1
CDM	4001	Honors Peer Tutoring IV			1

College of Dental Medicine Course Descriptions

Interdisciplinary Biomedical Sciences

Anatomy—Professors: **L. Dribin, N. Lutfi, A. Mariassy, C. Purvis, R. K. Yip** | Associate Professors: **A. Ahmadi, P. Greenman** | Instructor: **D. McNally**

CDM 1000—Anatomy Lecture/Laboratory
This course includes a general study of anatomical and functional features of the major systems of the human body with a more detailed study of the anatomy and function of the head and neck regions. Radiographic anatomy is presented in detail throughout the entire course. Laboratory sessions include the study of prosected human cadavers.

CDM 1030—Histology and Embryology Lecture/Laboratory
In this course, the microscopic anatomy of cells, tissues, and organs of the body is presented and correlated with their functions. Basic physiological concepts and relevant areas in pathology are presented. This course includes an introduction to human embryology, with an emphasis on weeks one through eight.

CDM 1130—Neuroanatomy Lecture/Laboratory
This course will introduce students to structural, functional, and developmental features of the human nervous system with an emphasis on clinical concepts. It serves as an introduction to neurology. Laboratory sessions include the study of human brain and spinal cord specimens and brain scans.

Biochemistry—Chair and Professor: **R. E. Block** | Professors: **E. E. Groseclose, K. V. Venkatachalam** | Assistant Professor: **K. Carnevale**

CDM 1025—Dental Biochemistry and Nutrition
This course includes concepts and principles of biochemistry of normal and pathologic human life processes. In addition, the principles of nutrition, biochemical roles of dietary constituents, digestion, and absorption are discussed.

Microbiology—Chair and Professor: **K. Davis** | Assistant Professors: **J. Costin, M. Demory Beckler, S. Prasad, A. Wrench**

CDM 1110—Microbiology
This course presents basic medical aspects of bacteriology, virology, and mycology, and includes taxonomy, morphology, epidemiology, growth cycles, pathogenesis, and treatment. Emphasizes oral microbial ecosystems and biofilms.

CDM 1111—Immunology
This course presents basic knowledge of the cellular, molecular, and biochemical aspects of the immune system and immune responses, including how the various components integrate and work together to control infectious organisms. It includes how disturbances in the immune system can lead to disease, and how the system can be controlled therapeutically.

Pathology—Chair and Assistant Professor: **D. Bonfil** | Professors: **B. Jones, A. B. Trif** | Associate Professor: **A. Vila**

CDM 1125 and 2125—Pathology I and II
Covers the basic pathologic processes of human disease, with a scientific foundation in etiology, pathogenesis, morphologic alterations, and effects of diseases of the organ systems. Emphasizes bone pathology and relevant disease states that affect the orofacial region.

Pharmacology—Chair and Professor: **M. Parker** | Professors: **T. Panavelil, C. Powell** | Associate Professors: **A. Levy, P. Rose, M. Zhao**

CDM 2010—Pharmacology I
This course will first introduce the student to basic concepts in pharmacology, such as pharmacokinetics, pharmacodynamics, distribution, and elimination. Then it will provide the student with a thorough understanding of the classes of drugs commonly used in clinical practice. Emphasis will be on the mechanism of action, clinical indications, side effects, important drug interactions, and the basic pharmacokinetics of each drug class.

CDM 2130—Pharmacology II
This course will provide an understanding of the classes of drugs commonly used in clinical practice that were not covered in the first semester. Emphasis will be on the mechanism of action, clinical indications, side effects, important drug interactions, and the basic pharmacokinetics of each drug class.

Since much of the pharmacology in these two courses deals with the basic pharmacology of the major drug classes, Pharmacology II seeks to integrate dental therapeutics with this basic pharmacology. Team-taught lectures provide this integration. Clinical faculty members from the colleges of Dental Medicine and Pharmacy teach concepts relevant to the dental practitioner in a case-based approach. By integrating the clinical therapeutics and the basic pharmacology, the students learn to apply the pharmacology knowledge they have acquired to clinical practice.

Physiology—Chair and Professor: **W. Schreier** | Professors: **H. Mayrovitz, Y. Zagvazdin** | Associate Professor: **L. Lyons, A. Mashukova** | Assistant Professor: **C. O'Malley**

CDM 1120—Physiology
This course reviews the physiological functions and regulation of the major human organ systems. Topics covered include basic cellular physiology, skeletal muscle, the cardiovascular system, the nervous system, the renal system, the respiratory system, the gastrointestinal system, and the endocrine system. Topics with direct relevance to dentistry, oral health, and disease are integrated into the content of the course. Specific examples include structural changes of the cell membranes in pemphigus vulgaris, the effect of local anesthetics on ionic currents, and the effects of metabolic imbalances on oral health. The mechanisms of relevant physiological and pathological processes in a variety of clinical conditions are discussed.

Behavioral Science—College of Psychology faculty member: **K. Lit**

CDM 3080—Behavioral Science
This course provides dental students with interviewing strategies, communication skills and an introduction to the theories and research pertaining to anxiety with specific interventions geared to reduce tension and fear. Students will be exposed to various interviewing and communication techniques as well as theories regarding the etiology of anxiety. Students will gain familiarity with psychological and physiological indices of arousal. It is the goal of this course to acquaint dental students with well established interventions including progressive muscle relaxation, systematic desensitization, biofeedback, hypnosis, and the relationship of anxiety/stress to pain syndromes.

Department of Diagnostic Sciences—Chair and Professor: **M. A. Siegel** | Vice Chair and Professor: **M. Hogge** | Professor: **L. Solomon** | Associate Professor: **L. Mejia** | Assistant Professors: **E. Choi, J. Ison, S. Kuriakose** | Adjunct Faculty Members: **J. Arenas, V. De Weijer, M. Ferreira, H. Gonzalez, L. Haller, S. Mescher, M. Romer, D. Stern**

CDM 1160—Oral Histology
This course is designed to provide broad exposure to the basic embryologic development and histology of anatomic structures that form the maxillofacial complex. Lecture and electronic images of the soft and calcified tissues that comprise the oral cavity will be used to illustrate these principles. Clinical procedures that depend on the understanding of these structures will be introduced.

CDM 2110—Radiology I
Lecture course with a preclinical laboratory exercise, in order to prepare the student for the performance of clinical oral and maxillofacial radiology technique. Infection control and safety for operator and patient is stressed.

CDM 2120—Oral and Maxillofacial Diagnosis I
Lecture and demonstration course covers extraoral techniques with special emphasis on digital imaging. Lectures cover radiographic interpretation of developmental anomalies, caries, periodontal disease, periapical disturbances, and other anomalies.

CDM 2140—Introduction to Oral Medicine
This course is the start of the didactic series of courses dealing with the topic of oral medicine. It presents lectures to develop the skills of interpreting a medical history, assessing risk in the dental management of the medically complex patient, conducting a thorough head and neck exam, performing a head and neck cancer-screening exam, and risk assessment. The course will discuss the relevant basic medical sciences (Anatomy, Physiology, and Pharmacology), apply them to clinically relevant medical and dental conditions, and demonstrate how to provide safe and effective oral health care for patients with severe and life-threatening medical disorders.

CDM 2280—Internal Medicine for Dentists
This lecture course will expose D2 students to the applied principles of diagnosis of the medically complex patient and the translation of these principles into clinical practice. Students will be exposed to lectures given in a review of systems format. All lectures will present a specific system/disorder with emphasis on definition, epidemiology, pathophysiology and complications, clinical presentation, medical management, and dental management. Concepts of antibiotic premedication and medical consultation will be introduced. Each lecture will reinforce previously encountered concepts of pathology and physiology, translate these concepts into a clinical venue, and then apply dental management techniques that are necessary to safely manage patients in a clinical practice.

CDM 2505—Radiology Preclinical Laboratory
A preclinical laboratory model serves to present the fundamentals of intraoral radiographic techniques in a clinical setting.

CDM 3010—Oral and Maxillofacial Diagnosis II
Didactic course focuses on the etiology, clinical, histologic, and radiographic appearance and treatment of specific disease entities involving the head and neck. Differential diagnosis is emphasized, giving clinical relevance to the discipline.

CDM 3011—Oral and Maxillofacial Diagnosis III
Continuance of CDM 3010, Oral Pathology I, didactic course focuses on the etiology, clinical, and histologic appearance and treatment of specific disease entities involving the head and neck. Differential diagnosis is emphasized, giving clinical relevance to the discipline.

CDM 3020—Oral Medicine

Didactic course continues and builds on the knowledge base gained in the basic medical sciences and Introduction to Oral Medicine. A comprehensive study of both hard and soft tissue lesions manifesting in the oral cavity and related head and neck structures is presented.

CDM 3021—Common Oral Conditions

A continuation of Introduction to Oral Medicine and Oral Medicine. The lectures are presented to develop the skills of interpreting a medical history through head and neck examinations and the dental management of the medically complex patient. The course will discuss the diagnosis and management of common oral and orofacial conditions as well as how to provide safe and effective oral health care for patients with life threatening medical disorders.

CDM 3650 and CDM 4650—Clinical Radiology I and II

Students perform radiographic techniques and interpretations in a clinical setting.

CDM 4020—Clinical Oral Medicine Case Presentations

Clinical manifestations of common systemic disorders are discussed to help students in making a tentative presumption diagnosis and developing a differential diagnosis. Each student will prepare a PowerPoint presentation on a patient with an oral soft tissue lesion for presentation to his or her class. Self assessment will be done at that time.

CDM 4170—Oral Manifestations of Disease

A case-based presentation of common conditions and diseases that patients will bring to the general practitioner. The goal is to review the physiology, clinical signs and symptoms, and the modifications to dental treatment that may be necessary. Also to be included are pharmacotherapeutics of common oral conditions, tobacco cessation, and recommendation for referrals to dental specialists.

CDM 404H—Oral Medicine Honors

This honors course will allow students with a special interest in the discipline of oral medicine to increase their exposure to patient cases involving advanced decision-making and clinical management skills beyond the scope of the predoctoral curriculum.

CDM 425E—Forensic Odontology Elective

Forensic Odontology is an elective course offered to a limited number of D4 students. The course format is didactic and includes a lab component at the Medical Examiner's Office. Topics covered may include human identification, bite marks, mass disasters, and professional training, as well as other subjects.

CDM 426E—Cone Beam CT Elective

The basic concepts of cone beam CT (CBCT) are presented, including navigation through iCATVision software and clinical applications. Diagnosis of radiological findings is reviewed.

Department of Endodontics—Interim Chair, Postgraduate Program Director, and Professor: **R. Seltzer** | Predoctoral Clinical Co-Director and Associate Professor: **V. Manjarres** | Predoctoral Clinical Co-Director and Assistant Professor: **C. Bonilla** | Associate Professor: **J. Zeim** | Assistant Professor: **C. Navarrete** | Adjunct Faculty Members: **R. Al-hashimi, I. Epelman, I. Moldauer, J. Schapiro, J. Silberman, A. Skidmore**

CDM 2050—Endodontics—Basic Principles and Formative Concepts

This lecture course is an introduction to the theory and practice of concepts within the scope of endodontic practice. Presented are the fundamental principles of diagnosis along with pulpal and periapical disease processes that highlight a supportive rationale for treatment procedures. Coupled with CDM 2060, this formative knowledge prepares the predoctoral student for the provision of basic clinical endodontic procedures.

CDM 2060—Endodontic Laboratory

This laboratory course provides guidance and experience in the provision of procedures designed to manage pulp and periapical disease. Procedures will be performed on realistic tooth models that reflect the range of anatomy found in the human dentition. Coupled with CDM 2050, the student is prepared to perform appropriate clinical procedures that support tooth retention in symptom-free function for the patient.

CDM 2250—Endodontic Clinical Lecture

This course enhances the formative knowledge and understanding of the key concepts in the provision of endodontic procedures for the predoctoral student. Within this spectrum, predoctoral students are also instructed on how to recognize clinical situations that are beyond their skills and scope of procedural applications. In doing so, the reason and rationale for referral to expert sources are emphasized.

CDM 3621—Clinical Endodontic Practice I

D3 predoctoral students are taught the application of clinical procedures in the management of single-root and multi-rooted teeth. Diagnosis is emphasized, in addition to the proper sequencing of treatment procedures in alignment with the established treatment plan, along with procedural record documentation and patient education and management.

CDM 4621—Clinical Endodontic Practice II

D4 predoctoral students are guided in the application of anesthetic techniques, pain control, patient management, emergency procedures, and endodontic procedural applications in a wide range of anatomical situations. Competency in the provision of all treatment procedures, including patient management, is expected to be demonstrated prior to graduation. This will be done through the use of verbal, written, and practical summative evaluations.

CDM 400H—Endodontic Honors Program

The honors program in endodontics is offered to D4 predoctoral students, in addition to the other specialty programs. Candidate selection is based on approval of the associate dean for academic affairs and the director of clinics, as well as the specific criteria established in each department that offers this program. Honors students will be afforded the opportunity to assist in the diagnosis, treatment planning, and provision of care in complex cases. Each department will provide the aspiring predoctoral students with course outlines and educational objectives that will enhance their levels of competency in the provision of patient care.

CDM 403E—Elective Program in Endodontics

The elective program provides D4 predoctoral students with experiences at an advanced level, in both formative knowledge and potential clinical applications. Students will be provided with the opportunity to attend postdoctoral-level seminars and to prepare special programs that may encompass visual presentations, poster presentations, and table clinic presentations, in addition to the development of publishable manuscripts.

Department of Oral and Maxillofacial Surgery—Chair, Postgraduate Program Director, and Associate Professor: **S. McClure**| Predoctoral Director and Associate Professor: **A. Ospina** | Professor: **S. Kaltman** | Associate Professors: **H. Lehrer, H. Menchel** | Assistant Professors: **A. Quimby, N. Zabiegalski** | Adjunct Faculty Members: **O. Borges, M. Harris, J. Kaltman, K. Kaner, R. Katz, A. Kleiman, T. Koyama, M. Krohn, M. Pikos, M. Ragan, P. Richman, C. Schalit, T. Splaver, T. Tejera**

CDM 2040—Pharmacology, Analgesia, and Local Anesthesia I

In this didactic, lecture-oriented course, students will be presented with information concerning the delivery of local anesthesia, including the application of pertinent anatomy, physiology, and pharmacology. The content in this preclinic/didactic course is applicable to direct patient care for local anesthesia, patient evaluation, and surgical procedures.

CDM 2150—Oral and Maxillofacial Surgery I

This didactic, lecture-oriented course with formal presentations will be integrated logically in sequence, incorporating a pertinent review of medical emergencies and concepts of internal medicine as relates to the medical history of the patient. Students will be provided with information about oral surgery procedures—including surgical extractions, pre-prosthetic surgery, complications, and biopsy—concerning the management of the oral and maxillofacial surgical patient.

CDM 2170—Pharmacology, Analgesia, and Local Anesthesia II

This didactic, lecture-oriented course reinforces information presented concerning the delivery of local anesthesia—including the application of pertinent anatomy, physiology, and pharmacology—presented in CDM 2040. Students also will receive basic information about alternative techniques of pain and anxiety control, such as oral sedation, nitrous oxide, IV sedation, general anesthesia, and acupuncture, as well as prescription writing, including consideration of the impact of prescribing practices and substance use disorders. Additionally, students will participate in a local anesthesia techniques lab seminar that will prepare them to successfully administer local anesthetic in a live-patient format. In a small group design, students will alternate being the operator, the patient, and the observer assistant. Each student will demonstrate competency in technical aspects of local anesthetic administration and in applying pharmacological principles to the selection of local anesthetics and pain management.

CDM 3040—Oral and Maxillofacial Surgery II

This didactic, lecture-oriented course expands upon the background begun in the second semester of the second year. Formal presentations to review major trauma, craniofacial conditions, TMJ disorders, head and neck pathology such as oral cancer treatment and reconstruction, systemic conditions that affect head and neck, and complications will be incorporated logically. Students will be provided with information concerning the management of the oral and maxillofacial surgical patient. The content in this preclinic/didactic course is applicable to direct patient care and patient evaluation and appropriate referrals.

CDM 3507—Clinical OMFS Rotation I

This course introduces the student to clinical oral and maxillofacial surgery, which includes patient evaluation, diagnosis, treatment planning, and routine oral surgery procedures commonly employed in general dental practice. Didactic content learned in CDM 2040, 2150, 2170, and 3040 related to patient assessment, need for anesthesia, pain control, minor oral surgery, and other topics are applied in the provision of direct patient care. Students are assigned to clinical rotation to assist residents and classmates, to observe, and to provide surgical treatment for patients requiring dentoalveolar surgery and management of odontogenic infections. Proficiency in patient evaluation and surgical techniques is stressed.

CDM 4505—Clinical Dental Urgent Care Rotation

The third- and fourth-year student will develop a systematic approach for evaluating a patient who presents with urgent dental or oral health concerns, acute pain, trauma, bleeding, infection, or swelling of the orofacial region. The student will complete a work-up of the patient's chief complaint; establish

a diagnosis; present an emergency treatment plan and options; and, with patient-informed-consent, provide the treatment or an appropriate referral. Students on rotation will participate in a grand-rounds summary at the close of each session to review specific patients and techniques.

CDM 4507—Clinical OMFS Rotation II

Fourth-year students are assigned to clinical rotations to observe and to provide surgical treatment for patients requiring dentoalveolar surgery and the management of odontogenic infections. Proficiency in patient evaluation and surgical techniques is stressed. The student will be required to demonstrate competency in routine tooth extraction, flap elevation for more difficult extractions, and other minor oral surgical procedures.

CDM 4999—Advanced Techniques in Pain and Anxiety Control

This didactic, lecture-oriented course, introduces and familiarizes students with alternative methods of pain and anxiety control, particularly as they relate to clinical dentistry. The objective is to discuss the different concepts of anxiolysis and analgesia. The goals of this course are to provide current pharmacologic management in anxiety and pain control for dentistry. The focus of material is directed to what the general practice dentist should provide in the office setting. The methods of anxiety reduction and sedation that are selected are done so on the basis of efficacy and safety. Orally administered agents (benzodiazepines) and inhalation sedation (nitrous oxide) techniques are covered in depth. Other advanced techniques, such as intravenous conscious sedation and general anesthesia, are introduced and demonstrated to acquaint students with and stimulate interest in these techniques. This course will provide students with the requisite didactic and clinical hours (hands-on) and experience to qualify for a nitrous oxide permit in their respective states of practice upon graduation. It will include a required clinical seminar affording students the opportunity to administer nitrous oxide to fellow students and demonstrate clinical competency.

CDM 408H—Honors Program in Oral and Maxillofacial Surgery

This honors course will expand the clinical knowledge and experience of the D4 predoctoral student in oral and maxillofacial surgery, including providing the opportunity to participate in and be exposed to patients that require more difficult surgical extractions or implants and bone-grafting surgery, as well as those with impacted teeth, odontogenic infections, or oral pathologic lesions. Students will also learn how to manage medically compromised patients. The student will be able to participate in didactic conferences and rounds at the hospital and observation and assisting in the operating room. He or she will also be involved in emergency department patient management.

Department of Orthodontics and Dentofacial Orthopedics—Interim Chair, Postgraduate Program Director, and Associate Professor: **T. Premaraj** | Director of Predoctoral Orthodontics and Dentofacial Orthopedics and Assistant Professor: **C. Lin** | Assistant Professor: **G. Contasti** | Adjunct Faculty Members: **J. Coro, A. Kapit, M. Meister, P. Palacios**

CDM 2005—Craniofacial Growth and Development

This course is intended to be an introductory course in craniofacial growth and development. Introductory and general concepts of somatic and craniofacial growth will be presented. Theories of craniofacial growth and development, the method of directional descent of the maxillary and mandibular complex, and correlation with the development of the occlusion will be included.

CDM 2200—Orthodontics Lecture/Laboratory

The orthodontics lecture course is designed to teach students to assess normal and abnormal growth and development, diagnosis and classification of malocclusion, and differentiation between limited and comprehensive orthodontic treatment. The orthodontics laboratory course is designed to teach principles and treatment concepts used in orthodontics and dentofacial orthopedics. Laboratory skills are taught in orthodontic mechanotherapy, enabling students to participate in the clinical experience.

CDM 3605—Orthodontic Clinical Comanagement Program

The predoctoral student will work with the postgraduate orthodontic student in all phases of orthodontic care including examination, diagnostic record taking, analysis, diagnosis, differential diagnosis, and treatment planning. The predoctoral student will join the postgraduate student in the postgraduate clinic for patients' orthodontic appointments, assisting in all phases of clinical care.

CDM 414H—Honors Program in Orthodontics and Dentofacial Orthopedics

This optional Honors course provides the interested student with an opportunity to further his or her knowledge in limited, co-management orthodontic treatment with postgraduate residents and their patients through attendance at postgraduate diagnostic conferences and continued learning of orthodontic diagnosis and treatment planning.

Department of Pediatric Dentistry—Chair and Professor: **R. Ocanto** | Postgraduate Director and Professor: **J. Chin** | Associate Professors: **J. Larumbe, O. Padilla** | Assistant Professors: **R. Cabassa, M. Kim , V. Oramas, M. Siegel** | Adjunct Faculty Members: **N. Hadaway, C. Kitaigorodsky, H. Urrea-Feldsberg, J. Vargas**

CDM 2081—Introduction to Pediatric Dentistry

This course is a primer on the diagnosis and treatment planning of primary and mixed dentition patients. Emphasis will be placed on dental disease, etiology, and prevention, recognition and management of disorders common in childhood. This course prepares students for the second semester didactic and laboratory experience in pediatric dentistry.

CDM 2180—Pediatric Dentistry Lecture

Provides the student with an overview of "normalcy" as well as the most common disorders and conditions in children. Diagnosis and treatment planning of pediatric patients with primary, transitional, and permanent dentitions are emphasized. This includes behavior management techniques, the development and morphology of the dentition, oral surgery and oral pathology, restorative and preventive procedures and materials, pulpal and periodontal therapy, traumatic injuries, space management, and oral habits. This course prepares students for their clinical interactions with children.

CDM 2190—Pediatric Dentistry Laboratory

The pediatric dentistry simulation laboratory sessions provide the student with basic knowledge and understanding of cavity preparation and restoration exercises with a variety of materials in the primary dentition. In addition, space maintenance and space analysis are reviewed during these laboratory sessions.

CDM 3525—Clinical Pediatric Dentistry Rotation I

This course includes the clinical application of preclinical pediatric dentistry skills in children and adolescents. All patients are treated in a comprehensive care format with emphasis in: 1) behavioral guidance; 2) record keeping, comprehensive diagnosis, and treatment planning; 3) prevention, including caries and risk assessment; and 4) restorative dentistry including composite and amalgam restorations in primary and mixed dentition. All clinical treatment is accomplished under the direct supervision of faculty members from the Department of Pediatric Dentistry.

CDM 4525—Clinical Pediatric Dentistry Rotation II

Clinical application of pediatric dentistry preclinical skills and clinical skills acquired during the D3 year are accomplished in a population of indigent children attending extramural dental clinics in South Florida. All patients are treated in a comprehensive care format with emphasis in: 1) behavioral guidance; 2) record keeping, comprehensive diagnosis, and treatment planning; 3) prevention, including caries and risk assessment; 4) restorative dentistry including composite and amalgam restorations in primary and mixed dentition, anterior composites, pulp therapy, and stainless steel crowns; and 5) interceptive orthodontics (space analysis and maintenance). All clinical treatment is accomplished under the direct supervision of faculty members from the Department of Pediatric Dentistry.

CDM 410H—Honors Program in Pediatric Dentistry

This course has been designed with the purpose of exposing D4 students to activities that will enhance their knowledge and skills in pediatric dentistry, specifically in the areas of didactic and clinical expertise.

Department of Periodontology—Department Chair and Professor: **S. Vardar** | Postgraduate Director, and Associate Professor: **T. Koutouzis** | Predoctoral Director and Associate Professor: **J. Virag** | Director of Dental Hygiene: **B. Mulholland** | Associate Professor: **M. Garcia** | Assistant Professors: **L. Basceanu, B. Garcia, S. Sofos** | Clinical Instructor: **C. Coleman** | Adjunct Faculty Members: **D. Boden, L. Corzo, N. Dalal, K. Deluca, B. Engle, F. Figueroa, M. Forrest, I. Freedman, J. Ganeles, F. Gholami, D. Glassman, A. Goldstein, B. Kassoff Correi, S. Malik, I. Marron-Tarrazzi, L. Ostroff, Z. Pappaterra, S. Ross, L. Shapiro, L. Steinberg, L. Sushner, B. Tetri** | Adjunct Clinical Hygienists: **M. Cercy, M. Contreras, J. Dozoretz, T. Farfan, J. Hernandez, L. Jones, S. Kong, E. Mellman, J. Miller, S. Salzman, M. Schwartz, R. Shamet, S. Sullivan, J. Turcotte** | Visiting Professor: **J. Suzuki**

CDM 1070—Periodontology I

This course provides an overview of periodontology and defines basic terminology. The relationship of anatomical structures relative to the periodontium; recognition and assessment of health and disease of the periodontium; introduction to histology of the gingival crevice in health, disease, and periodontal pathology; and the interrelationship between gingival microbiota, the formation of dental plaque, and gingival disease are discussed. Comprehensive periodontal examination and transcription of clinical and radiographic findings into records are also gone over, as well as an introduction to periodontal diagnoses.

CDM 1185—Introduction to Clinical Periodontology

Gives students the opportunity to apply the knowledge learned in Periodontology I and additional lectures in Periodontology II, which involve understanding and application of clinical data collection, examination of the periodontium, and instrumentation techniques. Students are required to apply their knowledge first on mannequins in simulation lab and then with their classmates.

CDM 2030—Periodontology II

Review of normal structures: anatomic and histologic. The earliest gingival inflammatory lesion: clinical signs and symptoms. Gingivitis: clinical features, underlying etiology, microbial shifts, and diagnosis and rationale for treatment. Clinical, microbiologic, and histologic alterations in response to local irritants, host responses, inflammation and loss of attachment. The gingival and periodontal abscess, the gingival lesion in AIDS, necrotizing ulcerative gingivitis, and herpetic gingivostomatitis.

CDM 2160—Periodontology III

This course discusses etiology, histopathology, and treatment of various periodontal lesions; phase I nonsurgical periodontal treatment planning; and options available for the treatment of periodontitis; reevaluation of periodontal treatment; and interdisciplinary considerations following periodontal therapy as part of the periodontal treatment plan. The course introduces the students to treatment to health, initial periodontal therapy for periodontal maintenance, prophylaxis, and scaling and root planning procedures, while emphasizing the need for supportive periodontal therapy and patient compliance. New paradigms of periodontal treatment modalities are introduced.

CDM 2185—IDG Clinical Periodontology Orientation

This course is a review for international dental graduates in periodontal instrumentation, techniques, and management of patient oral hygiene. Additionally, the course includes training in protection of health care records (HIPAA) and training in occupational safety (OSHA).

CDM 2501—Periodontology Clinic

The purpose of this course is to introduce the course participant to the concepts of clinical periodontics involving diagnostic procedures and execution of treatment for patients on prophylaxis recalls (Type I cases—gingivitis).

CDM 3030—Periodontology IV

This course discusses etiology, histopathology, and treatment of periodontitis; phase II surgical periodontal treatment planning; and options available for the treatment of periodontitis. Indications and modalities of periodontal surgery including, but not limited to, treatment of furcations, osseous surgery, mucogingival surgery, regenerative techniques, wound healing, use of antibiotics in periodontal therapy, and periodontal medicine are also presented.

CDM 3501—Clinical Periodontology I

The purpose of this D3 year in periodontics is to provide students with the basic knowledge and clinical experience to recognize and treat periodontal disease and develop a process for formulating a properly sequenced and effective periodontal treatment plan. Students perform periodontal therapies and integrate periodontal therapy within a comprehensive plan of care.

CDM 3503—Clinical Periodontology Rotation

The purpose of this year in periodontology is to provide students with the opportunity to assist in periodontal surgical procedures at the postgraduate periodontics level. Students will be exposed to different modalities of periodontal surgical procedures.

CDM 4501—Clinical Periodontology II

The purpose of this year in periodontics is to provide students with the basic knowledge and clinical experience to recognize and treat periodontal disease of the hard and soft tissues and develop a process for formulating a properly sequenced and effective periodontal treatment plan. In addition, students will be exposed to protocols related to implant placement and restoration in harmony with the maintenance of a healthy periodontium.

CDM 402H—Honors Program in Periodontics

This course provides predoctoral students with the opportunity of assisting and performing periodontal surgical procedures. The objectives of the course are to help students to understand surgical anatomy related to periodontal surgery and principles of periodontal surgery, and to understand indications and sequencing of different modalities of periodontal surgical procedures. In addition, students will perform periodontal surgery including crown lengthening, gingivectomy/gingivoplasty and frenectomy.

Department of Prosthodontics—Chair and Professor: **S. C. Siegel** | Predoctoral Co-Clinical Director and Associate Professor: **J. Antonelli** | Interim Postgraduate Director and Assistant Professor: **J. Piermatti** | Assistant Director and Assistant Professor: **M. Pasciuta** | Associate Professors: **R. Castellon, A. Godoy** | Assistant Professors: **G. Bozzutti, A. Despaigne, R. Dobrin, M. Golberg, M. Guerrero, C. J. Hsu, E. Lara, R. Lichtman, L. Mosquera, A. Pagani, A. Pereira, M. Schneider** | Adjunct Faculty Members: **R. Acosta-Ortiz, L. Ahmadian, R. Almasri, T. Balshi, J. Banos, R. Binns, M. Blum, J. Boccuzi, G. Coelho, D. Feit, J. Friefeld, J. Gartner, S. Gordon, A. Haliczer, M. Hervas, L. Krasne, M. Malo, S. Millhauser, E. Neuwirth, F. Perez, D. Radu, M. Radu, S. Resnick, M. Richards, D. Rolfe, M. Romer, D. Roy, R. Sanchez, D. Skopp, A. Slootsky, Z. Staller, S. Stempel, B. Tandy, J. D. Wessel, M. Zaman**

CDM 1002—Elective SKY™ Happiness Course: Practice of Well-Being, Breath Work, and Resilience

This course offers an opportunity for students to develop increased personal resilience and manage negative emotions and stress. This program introduces the SKY™ technique, a scientifically validated meditative breathing practice that can potentially increase one's well-being and calmness and reduce anxiety and stress markers. The course features interactive group processes, experiential learning, stretching exercises, breathing techniques, meditation, and leadership processes.

CDM 1203—Evidence-Based Dentistry I

Students will be introduced to the fundamentals of evidence-based dentistry (EBD) and study design. This will include introductory information on EBD and online computer searches for scientific information. Students will learn how to use the main EBD websites and clinical query searches on PubMed. Online databases and search strategies will be presented. Clinical research designs such as case-control, case series, case

report, cohort studies, and randomized controlled trial will be introduced. Concepts of study design, research methods, and literature review will be emphasized and critically compared.

CDM 2070/CDM 2080—Fixed Prosthodontics Lecture/Laboratory I

These courses prepare students to appropriately use the terminology, instrumentation, and psychomotor skills associated with tooth preparation and provisionalization of single and multiple unit intra and extra coronal cast fixed prosthodontic restorations.

CDM 2095—Preclinical Removable Prosthodontics I Lecture

This course is designed to familiarize the student with all the aspects of the discipline of removable prosthodontics: theoretical, technical, and clinical, so he or she will be prepared to confidently and accurately provide removable prosthodontic treatment for the complete or partially edentulous patient in clinical practice. This course, in conjunction with the laboratory course, will provide the foundation of clinical removable prosthodontics.

CDM 2096—Preclinical Removable Prosthodontics I Laboratory

This laboratory course provides a simulated experience of using removable partial dentures and removable complete dentures to replace lost teeth and their associated structures. This course is designed to familiarize the student with all the aspects of the discipline of removable prosthodontics—theoretical, technical, and clinical—so he or she will be prepared to confidently and accurately provide removable prosthodontic treatment for the complete or partially edentulous patient in clinical practice.

CDM 2101—Dental Biomaterials Lecture II

At the end of this course, the students will be able to understand the optimum performance requirements, properties, and handling characteristics for specific dental materials, as well as understand the selection criteria based on clinical significance of the mechanical and physical properties of dental materials.

CDM 2197—Preclinical Removable Prosthodontics II Lecture

This lecture course presents theory and technique for using removable partial dentures and removable complete dentures to replace lost teeth and their associated structures. This course is designed to familiarize the student with all the aspects of this discipline of removable prosthodontics—theoretical, technical, and clinical—so he or she will be prepared to confidently and accurately provide removable prosthodontic treatment for the complete or partially edentulous patient in clinical practice. This course, in conjunction with the laboratory course, will provide the foundation of clinical removable prosthodontics.

CDM 2198—Preclinical Removable Prosthodontics II Laboratory

This laboratory course provides a simulated experience of using removable partial dentures and removable complete dentures to replace lost teeth and their associated structures. As a continuation of Preclinical Removable Prosthodontics Laboratory I from the previous semester, it includes simulated clinical and laboratory exercises to provide the foundation of clinical removable prosthodontics.

CDM 2260/CDM 2270—Fixed Prosthodontics Lecture/Laboratory II

The lecture course presents theory and technique of anterior and posterior fixed partial dentures, porcelain application, and treatment of endodontically treated teeth as they relate to the overall restorative treatment of the patient. This course, in conjunction with the laboratory course, provides the foundation for the student to use the same knowledge and techniques that will be used in clinical application.

CDM 2995—Clinical Practice of Dentistry Fundamentals

This combined lecture and laboratory course is an integrated program that includes objectives from the following disciplines: oral diagnosis, oral medicine, dental anatomy, fundamentals of occlusion, operative dentistry, dental biomaterials, cariology, endodontics, periodontics, pediatric dentistry, orthodontics and fixed prosthodontics, OMFS, and use of the EHR system. The clinical practice of dentistry program builds on the foundational knowledge learned in the D1 and D2 curriculum in order to prepare students for a comprehensive care competency-based clinical program. The course focuses on the application of the learning objectives obtained throughout the D1 and D2 curriculum. The student will be presented with de-identified patient cases and will be expected to prepare comprehensive treatment plans for the cases, as well as perform some of the necessary procedures in the simulation laboratory on typodonts.

CDM 3120—Implant Restorative Dentistry Lecture

This course is one of comparative implantology, which emphasizes the biological background related to implant systems. Demonstrations and case presentations will be provided. Evidence-based studies are referenced. Hands-on demonstrations and simulation of the use of implant parts is part of the course.

CDM 3130—Cosmetic Dentistry Lecture

This course provides formal lecture presentations in conjunction with preclinical laboratory hands-on exercises to prepare students with the necessary skills to perform esthetic dental procedures as discussed in lectures. The D3 student will learn the sequence of diagnostic steps required for a successful planning and treatment of the esthetic zone, as well as different treatment modalities and indications of use for all ceramic and

indirect composite resin systems for the posterior teeth. New technologies and systems will be discussed and students will have the option of presenting a treatment-planned case to their classmates and faculty members.

CDM 3131—Cosmetic Dentistry Laboratory

This course provides preclinical laboratory hands-on exercises to prepare students with the necessary skills to perform esthetic dental procedures as discussed in lectures. The D3 student will learn the sequence of diagnostic steps and clinical procedures required for a successful planning and treatment of the esthetic zone, as well as different treatment modalities, along with indications of use for all ceramic and indirect composite resin systems for the posterior teeth.

CDM 3200—Laboratory and Clinical Applications of Occlusion

Occlusion is that branch of dentistry that applies knowledge of oral anatomy and biomechanical principles of jaw motion to clinical practice, including the relationship of the maxillary and mandibular teeth and the muscles of mastication. To fully understand the stomatognathic system, dental students should have a broad understanding of embryology, histology, growth and development, head and neck anatomy, dental anatomy, physiology, pathology, and pharmacology. Students will be responsible for incorporating the knowledge from previous courses to aid in their understanding of occlusion. They will apply these concepts in a hands-on clinical setting incorporating different modalities and techniques, including intra-oral scanning (IOS) technology.

CDM 3260—Masticatory System Disorders: A Multidisciplinary Approach

This is an integrated approach to teaching dental students about the clinical evaluation and diagnosis of patients that present with pain and/or dysfunction in the masticatory system (temporomandibular disorders) and other related orofacial pain conditions. Multiple disciplines will present to allow students to have a complete understanding of the normal function of the masticatory system, occlusal analysis, and occlusal diagnosis and its effect on the TMD and the masticatory system. Students will utilize knowledge from the course to diagnose and make recommendations for patient treatment referrals from their own family of patients.

CDM 3410—Clinical Fixed Prosthodontics I

This clinical experience consists of preparing and placing anterior and posterior fixed partial dentures and single coronal restorations. Restorations may be of full gold, metal-ceramic, or all ceramic. Restorations on implants are an integral part of the clinical experience. CAD/ CAM restorations are included in this clinical experience. All clinical treatment is accomplished under the direct supervision of faculty members. A clinical rotation with the postgraduate prosthodontics residents is part of this course.

CDM 3411—Clinical Removable Prosthodontics I

Clinical application of preclinical skills in complete and removable partial dentures, overdentures on teeth, and implants are accomplished on patients. All patients are treated in the comprehensive care format with emphasis on the whole head and neck. All clinical treatment is accomplished under the direct supervision of faculty members.

CDM 3530—Evidenced-Based Dentistry in Clinical Practice

This lecture series presents historical aspects of the development of critical thinking in health care. The course provides the student with different sources for accessing scientific information and reviews scientific articles and principles in observational and epidemiological studies. It stresses the importance of evidenced-based cases and the principles of clinical decision-making and statistics methodology.

CDM 3277—Digital Dentistry: CAD/CAM and 3-D Printing Technologies

This combined lecture and laboratory course in digital dentistry presents the theory and practical application of the use of CAD/CAM digital dentistry, 3-D Printing, and other emerging restorative technologies. Students will learn about the various systems for digital impression making and manufacture of restorations in the digital-assisted practice of the 21st century, including the CEREC OmniCam and PrimeScan (Dentsply/ Sirona), 3Shape Trios (3M), iTero (Align Technologies), Encode (Zimmer Biomet), Form Labs, and EnvisionTec, as well as other emerging systems. The laboratory component of the course will incorporate tooth preparations, digital impressions on natural teeth and implants, and completing the final restoration. Students will learn the theory and application of CAD/CAM technologies and 3-D printing to fabricate single crowns, inlays, onlays, implant crowns, and other prostheses.

CDM 4410—Clinical Fixed Prosthodontics II

This clinical experience consists of preparing and placing anterior and posterior fixed partial dentures and single coronal restorations. Restorations may be of full gold, metal-ceramic, all ceramic, or CAD/CAM generated. Restorations on implants are an integral part of the clinical experience. All clinical treatment is accomplished under the direct supervision of faculty members.

CDM 4411—Clinical Removable Prosthodontics II

Clinical application of preclinical skills in complete and removable partial dentures, overdentures on teeth, and implants are accomplished on patients. All patients are treated in the comprehensive care format with emphasis on the whole head and neck. All clinical treatment is accomplished under the direct supervision of faculty members.

CDM 412H—Honors Program in Prosthodontics

Advanced students with a high interest in prosthodontics attend advanced prosthodontic seminars and gain advanced experience in clinical prosthodontics, treating more complex patients.

Department of Restorative Sciences and Public Health Dentistry—Chair and Associate Professor: **E. Kilinc** | Predoctoral Co-Clinical Director and Associate Professor: **R. Gaines** | AEGD Postgraduate Program Director and Assistant Professor: **C. Robinson** | Associate Professor: **A. Brodie** | Assistant Professors: **A. Amini, A. Bezerra, R. Block, E. Chiang, R. Dobrin, A. Duarte, P. Fleisher, M. Georgescu, C. Gonzalez, T. Gonzalez, H. Gordon, M. Gutierrez, S. Hack, P. Keller, G. Kolos, M. Madera, M. Meskow, V. Noce, P. Papatzimas, P. Pugliese, H. Quinton, J. Rodriguez, M. Schweizer, J. Shiffman, R. Vogel** | Adjunct Faculty Members: **N. Bidkar, Y. Del Arca, R. Dulay, M. Faisal, E. Fellows, J. Garber, R. Jabarry, F. Jimenez, S. Kanowitz, R. Lev, N. Levy, A. Neto, H. Panahi, J. Ruble, B. Tandy, J. Vazquez Garcia, J. Velasco, J. Velazquez**

CDM 1015—Clinical Experience Rotation I

This clinical rotation in the D1 fall semester provides the student with early exposure and experience in the professional clinical dental environment, including observation of diagnostic methods, dental procedures, and patient-student-faculty interaction. D1 students are instructed in basic dental assisting skills and infection control principles, and may have the opportunity to implement these skills while assisting D3 and D4 students in the CDM predoctoral clinics. The content and experience in this course will be integrated with the content in the following courses: Ethics and Professionalism and Multidisciplinary Introduction to Record Keeping.

CDM 1016—Clinical Experience Rotation II

This clinical rotation in the D1 winter and D2 summer semesters gives the student continued and expanded exposure to the clinical dental environment in the CDM clinics. During this rotation, the D1 student's knowledge of biomedical science, dental procedures, instrumentation, and record keeping is further integrated with the clinical setting. The content and experience in this course will be integrated with the content in the following courses: Ethics and Professionalism and Multidisciplinary Introduction to Record Keeping.

CDM 1050 and CDM 1051—Ethics and Professionalism I and II

These courses will provide students with an awareness of the ethical issues in the dental profession and expected behavior at the College of Dental Medicine. In addition, students will develop an understanding of the impact of various ethical issues and communication skills in dental education and clinical practice. The content in these courses will be integrated with the content in Clinic Experience I and II and Multidisciplinary Introduction to Record Keeping.

CDM 1135—Introduction to Dental Record Keeping (EHR I)

This course gives first-year dental students hands-on experience in completing electronic dental treatment records. Students receive one lecture presentation on the importance and techniques of proper record keeping and one lecture on normal anatomic oral structures. One computer lab session is provided where students will learn components of the axiUm electronic health record, including recording of odontologic findings, clinical findings, codes, notes, and use of the personal planner. In the clinical setting, students create and complete a treatment record, including medical history, hard and soft tissue examination, and a treatment note, while working in pairs with classmates. The class is divided into three groups for ease of management in the clinic. Group assignments will be posted on Canvas. Students will be assigned to Group A, B, or C. They will attend the rotations as indicated in the course schedule

CDM 1155—Integrated Restorative Dental Sciences I Lecture

The IRDS I lecture course is an integrated program that includes objectives from the following disciplines: dental anatomy, fundamentals of occlusion, biomaterials, cariology, and operative dentistry. This course presents the anatomical and functional differences of teeth, how they relate to each other, and the application of this knowledge to various phases of dentistry. It presents the characteristics differentiating each tooth and the variations that can occur from one patient to the next. The course will introduce concepts of anatomy and normal function of the stomatognathic system. While learning about the medical model of caries management, students will be introduced to dental caries: disease, diagnosis, preventive and remineralization treatments, prognosis, and outcomes. Understanding the role of caries risk assessment in restorative decisions, students will apply principles of minimally invasive dentistry. Students will learn about dental biomaterials, material selection, preparation design, and restoration. The IRDS course integrates the principles from these disciplines in order to prepare students for a comprehensive-care, competency-based, clinical curriculum.

CDM 1156—Integrated Restorative Dental Sciences I Laboratory

The IRDS I laboratory course is an integrated, hands-on program that runs concurrently with the lecture component and includes objectives from the following disciplines: dental anatomy, fundamentals of occlusion, dental biomaterials, cariology, and operative dentistry. This course presents the anatomical and functional differences of teeth, how they relate to each other, and the application of this knowledge to various phases of

dentistry. It presents the characteristics differentiating each tooth and the variations that can occur from one patient to the next. The course will introduce concepts of anatomy and normal function of the stomatognathic system. Utilization of wax carving and add-on techniques are introduced. With an understanding of the role of caries risk assessment in restorative decisions and knowledge of the mechanical and physical properties of the dental materials, students will learn principles of cavity preparation; material selection; and proper use of amalgam, alginate, and gypsum. The IRDS I laboratory course integrates the principles from these disciplines in order to prepare students for a comprehensive-care, competency-based, clinical curriculum. Emphasis will be placed on teaching students how to develop the fine psychomotor skills that are necessary to practice dentistry.

CDM 1205—Primary Care and Public Health I

This course will introduce students to fundamentals of public health and its relevance in dentistry. Health care delivery systems, as well as oral health status and disparities across the population, will be discussed. Students will be instructed on legal and ethical principles applied to public health. In addition, students will be given the opportunity to develop their own strategic plan involving a dental health initiative.

CDM 1255—Integrated Restorative Dental Sciences II Lecture

The IRDS II course is an integrated program that includes objectives from the following disciplines: dental anatomy, fundamentals of occlusion, operative dentistry, dental biomaterials, cariology, and fixed prosthodontics. The course will continue building on concepts of anatomy and normal function of the stomatognathic system. While applying cariology principles, students learn about dental biomaterials; material selection; preparation; design; and proper use of amalgam, composite resin, glass ionomers, and casting metals (gold, etc.). This course will introduce the theory and principles of fixed prosthodontics, and its role in the overall treatment of the patient. The IRDS course integrates the principles from these disciplines in order to prepare students for a comprehensive-care, competency-based, clinical curriculum.

CDM 1266—Integrated Restorative Dental Sciences II Laboratory

The IRDS II laboratory course is an integrated, hands-on, simulation program and a continuation of the IRDS I laboratory course. It runs concurrently with the lecture component and includes objectives from the following disciplines: dental anatomy, fundamentals of occlusion, operative dentistry, dental biomaterials, cariology, and fixed prosthodontics. The IRDS course integrates the principles from these disciplines in order to prepare students for a comprehensive-care, competency-based, clinical curriculum.

CDM 1357— Case-Based Integrated Restorative Sciences III Lecture and Laboratory

The IRDS III course is a continuation of the fall and winter IRDS courses. Course content from dental anatomy, fundamentals of occlusion, operative dentistry, dental biomaterials, cariology, prosthodontics, and record keeping are integrated into a case-based format utilizing knowledge and critical thinking skills obtained in the fall and winter semesters.

CDM 2001—Honors Peer Tutoring II

The Honors Peer Tutoring courses will provide an opportunity for NSU dental students who achieved a grade of 90 or higher in CDM predoctoral course(s) to assist colleague dental students with acquisition, review, understanding, reinforcement, knowledge, and skills content in the respective D1, D2, and D3 courses. The peer tutor will be provided with background information on process, expectations, and resource information to effectively facilitate provision of individual peer tutoring for students seeking peer tutoring assistance. This is an additional resource, not a substitute resource, for students seeking faculty expertise in learning needs.

CDM 2025—IDG Integrated Restorative Dentistry Lecture and Laboratory

The lecture course presents the topic of diagnosis and treatment of carious lesions and other hard-tissue defects, principles of direct restorative dentistry, and fundamental concepts in the practice of restorative dentistry. The lecture component, in conjunction with the laboratory component, provides the foundation for the student to utilize the same knowledge and techniques that will be used in clinical application.

CDM 2085—Introduction to Special Needs Dentistry

This didactic course will define special needs patients, focus on their oral health needs, and present methodology for overcoming the lack of care in this patient population.

CDM 2135—Essentials of the EHR (EHR II)

The second first-year course is designed to build on Introduction to Dental Record Keeping (CDM 1135) by providing four hands-on computer lab sessions with a final examination. The student will practice using components of the electronic health record comprising recording of odontologic and clinical findings, entering procedure codes, completing patient record forms, writing chart notes, and using the personal planner.

CDM 2175—QA/Recare Clinical Rotation I

The D2 student will work together with the Quality Assurance Dental Faculty to perform the treatment completion exams and the annual examination and assessment of recare patients in the Davie Predoctoral Clinic. The student will be required to review the patient chart prior to the appointment and perform a systematic chart review. The student will have the opportunity to observe, record, and evaluate restorations and pathology

with faculty member assistance. This clinical experience will allow the student to practice the skills that he or she has learned in the D1 Multidisciplinary Record Keeping course and to continue to observe dentist-patient communication and time management prior to participating in comprehensive patient care clinic.

CDM 2241—Introduction to Comprehensive Treatment Planning

This course is designed to introduce sophomore students to the didactic basis of dental treatment planning while combining and integrating the course didactics with computer training using the electronic health record software system. The course will begin with the patient's screening admission process and will continue with the patient's data collection, including medical and dental histories, the extraoral and intraoral physical examination, and the evaluation of dental radiographs. Ultimately, students will gain a framework of reference from which to build a structured and systematic patient dental treatment plan that will ensure optimal patient care.

CDM 2242—Axium EHR Treatment Planning Module

This sophomore-year course is designed to instruct students in using the knowledge from various dental disciplines to develop treatment plans for patient presentation using the electronic record software system that is currently used at NSU CDM. The hands-on, five-session, computer-based course guides the student to develop optimal, alternative, revised, and limited-care treatment plans based on information gathered from clinical findings. The plans are phased and sequenced according to patient needs with appropriate risks and benefits. A final examination using the electronic record software is used to assess student knowledge of developing optimal and alternative treatment plans.

CDM 2999—Clinic Prerequisite Orientation

This course will provide the student with clinic operations information, policies, protocols applicable to comprehensive-care clinics, and clinic rotations. Students will be oriented to the expectations of all clinical disciplines as they apply to comprehensive patient care and competency assessment and experiences. Students will also be oriented to the expectations of the Applied Patient Care Foundations courses and will be introduced to practice team leaders and patient care coordinators. Additionally, they will be required to complete recertification of BLS, Infection Control/Exposure Protocol, and technology updates; have passed NBDE Part I; and be responsible for any other clinic-related information, as needed.

CDM 3000—Applied Patient Care Foundations I

This course is designed to evaluate and assess the student's ability to provide comprehensive patient care in a professional and ethical manner utilizing sound clinical judgment. Proper patient management skills, including organization, preparedness, and the ability to work independently, will also be assessed. Record keeping and the ability to follow instructions are integral skills evaluated in this course as well.

CDM 3001—Honors Peer Tutoring III

The Honors Peer Tutoring courses will provide an opportunity for NSU dental students who achieved a grade of 90 or higher in CDM predoctoral course(s) to assist colleague dental students with acquisition, review, understanding, reinforcement, knowledge, and skills content in the respective D1, D2, and D3 courses. The peer tutor will be provided with background information on process, expectations, and resource information to effectively facilitate provision of individual peer tutoring for students seeking peer tutoring assistance. This is an additional resource, not a substitute resource, for students seeking faculty expertise in learning needs.

CDM 3090—Introduction to the Dental Profession

Practice management and organizational theory, economic theory, and practical aspects of managing a dental practice.

CDM 3140—Special Needs Dentistry

This is a semester-long, didactic course that presents a curriculum that introduces the predoctoral student to the pathophysiology of disabilities. The course will also demonstrate the management tools and techniques necessary for the provision of dental care to this underserved population in both the academic arena and the private practice setting.

CDM 3175 and CDM 4175—QA/Recare Clinical Rotation II and III

D3 and D4 students will perform periodic patient exams, including annual periodontal charting, medical/dental history review and update, caries risk assessment, and necessary radiographs for dental hygiene recare patients at the Davie clinic, and at off-site Comprehensive Care clinics. Students will review charts prior to clinic sessions in order to familiarize themselves with patients' previous care. Preventive treatment protocols will be reviewed and assessed for patient compliance, and restorative treatment outcomes will be observed and reviewed with faculty members. This will provide students with opportunities to duplicate the periodic dental hygiene treatment/dental exam experience of that in private practice.

CDM 3241—Comprehensive Treatment Planning

This course is designed to continue with the didactics of comprehensive dental treatment planning while integrating computer training using the electronic health record software system. The course will begin reviewing the patient's screening admission and data collection process and will continue with all the phases and sequencing of dental treatment planning. Practice management and ethical issues in treatment planning will also be discussed during the course. Students will have the opportunity to interact with faculty members and other classmates during patient case-based group discussions and seminars.

CDM 3500—Clinical Restorative Dentistry I

Under direct supervision of faculty members, in a team leader model, the student will incorporate the knowledge gained from didactic courses to provide comprehensive patient care. Following the medical model of caries management and principles of minimally invasive dentistry, the student will provide clinical services and dental restorations for patients using caries risk assessment, diagnosis, prevention, oral hygiene instruction, fluoride, sealants, laser diagnosis, remineralization techniques, tooth whitening procedures amalgam, resin composites, and glass ionomers. In addition to developing the student's skills in performing evidence-based restorative procedures, the overlying objectives of this course are restoration to health of the dental patient and the prevention of future dental caries for the patient.

CDM 4001—Honors Peer Tutoring IV

The Honors Peer Tutoring courses will provide an opportunity for NSU dental students who achieved a grade of 90 or higher in CDM predoctoral course(s) to assist colleague dental students with acquisition, review, understanding, reinforcement, knowledge, and skills content in the respective D1, D2, and D3 courses. The peer tutor will be provided with background information on process, expectations, and resource information to effectively facilitate provision of individual peer tutoring for students seeking peer tutoring assistance. This is an additional resource, not a substitute resource, for students seeking faculty expertise in learning needs.

CDM 4002—Applied Patient Care Foundations II

This course is designed to evaluate and assess the student's ability to provide comprehensive patient care in a professional and ethical manner utilizing sound clinical judgment. Proper patient management skills, including organization, preparedness, and the ability to work independently, will also be assessed. Record keeping and the ability to follow instructions are integral skills evaluated in this course as well.

CDM 4060—Practice Management

This course is a continuum of information supporting the understanding of the dental profession, with an emphasis on the business of dentistry, practice management, and medical/legal issues. Discussions about various practice models, business entities, taxation, accounting, and insurance options will be presented.

CDM 4120—Regional Board Preparation Course

This course consists of a lecture and laboratory series that presents an overview of useful clinical techniques for students who will be taking various regional board dental examinations. The course presents didactic material as well as hands-on clinical simulation of examination parameters for procedures included in various regional board exams. Successful completion of this course should assist students taking regional board exams, but does not guarantee a passing grade on any regional board examination taken by a student.

CDM 4222—Laser Dentistry (Elective)

The curriculum for this basic-level course includes education in the fundamental principles of laser use in dentistry, the use of lasers in multiple dental disciplines, and safety aspects of laser use.

CDM 4240—Advanced Comprehensive Treatment Planning

This course applies the principles and guidelines for comprehensive dental treatment planning for multidisciplinary complex cases. Senior students are expected to recognize these advanced cases and understand treatment planning sequences utilizing skills and methodology previously developed in the D2 and D3 treatment planning courses. The course will be composed of interactive lectures and small-group discussions.

CDM 4500—Clinical Restorative Dentistry II

Under direct supervision of faculty members, in a team leader model, the student will gain more experience in providing comprehensive patient care. Following the medical model of caries management and principles of minimally invasive dentistry, the student will provide clinical services and dental restorations for patients using caries risk assessment, diagnosis, prevention, oral hygiene instruction, fluoride, sealants, laser diagnosis, remineralization techniques, tooth whitening procedures amalgam, resin composites, and glass ionomers. In addition to developing the student's skills in performing evidence-based restorative procedures, the overlying objectives of this course are restoration to health of the dental patient and the prevention of future dental caries for the patient.

CDM 4555—Dental Auxiliary Utilization

The Dental Auxiliary Utilization (DAU) rotation course is designed to train dental students in the application of the concepts of four-handed dentistry, dental team, and ergonomics learned starting from the D1 year in the effective delivery of dental services in a comfortable and minimum-stress environment. Application of these concepts can later be applied to private practice. The student should become familiar with what is expected and required of the assistant, as well as the requirements for the operator and the assistant to work efficiently and effectively in completing all procedures.

CDM 4700—Extramural Primary Care Rotation

This course is intended to provide D4-year students with the opportunity to receive instruction in providing patient-centered primary oral health care for underserved populations, including medically compromised patients and those with limited access to oral health services. This presents an opportunity for the students at NSU-CDM to broaden their exposure to providing

culturally competent oral health care in an extramural clinic environment. Students will also better understand the public health context in an interprofessional environment for the care they will be providing. Students will complete a reflective observation activity at the end of their rotation, which may consist of reflective journaling, focus groups (face to face or electronic), a presentation, or case writing. This activity is intended to serve as a bridge between experiential and didactic learning and to demonstrate critical thinking skills, allowing students to prepare for, and learn, from service experiences. In addition, students will participate in lunch time interprofessional educational conferences. Select Cypress Creek students may have the opportunity to participate in an interprofessional dental/pharmacy practice experience.

Dental Medicine Related Educational Programs

The College of Dental Medicine also offers the following programs:

D.M.D/Master's Degree in Health Law

Students seeking specialized knowledge in law as related to health care may apply for admission to the D.M.D./Master's Degree in Health Law Program. The master's degree in health law is an online program offered by NSU's Shepard Broad Law Center, requiring significant self-directed study and learning.

D.M.D./Master's Degree in Public Health

An academic track providing specialized knowledge in public health, leading to the M.P.H. degree, is available to the doctor of dental medicine student, and may enhance career prospects in government and private health care enterprises. This program may require 6–12 months of additional study beyond the four years needed for the D.M.D. program. Application may be made on successful completion of the first dental-school year.

D.M.D./Master's or Doctoral Degree in Health Care Education

In the third dental year, applicants considering part-time or full-time teaching and administration in dental education and whose clinical competencies are current may apply for enrollment in either the master's degree or doctoral degree in health care education programs. Candidates for the master's degree in health care education will spend the year after dental school graduation in full-time study in education, while doctoral candidates will invest two to three years of study in education after receipt of the D.M.D. degree.

D.M.D./Master of Business Administration

The College of Dental Medicine (CDM) and the H. Wayne Huizenga College of Business and Entrepreneurship (HCBE) have partnered to create a dual-degree track. This track leads to the awarding of D.M.D. and Master of Business Administration (M.B.A.) degrees. The M.B.A. complements the D.M.D. program by providing specialized knowledge in business with 10 available concentration areas. The dual-degree track is available to all predoctoral students who are academically in good standing, have successfully completed their D1 year, and have permission from the dean of the College of Dental Medicine. Students may contact the HCBE program representative for details on this program. Completion of the M.B.A. may require 6–12 months of additional study beyond the four-year D.M.D. program.

Predoctoral Research Program

Students showing exceptional performance in basic sciences, laboratory, and clinical dentistry may be eligible to participate in the Predoctoral Research Program. Under the supervision of faculty members, these students will gain familiarity with the scientific method and engage in laboratory and clinical research. Predoctoral students seeking research opportunities should follow the guidelines of the Predoctoral Student Research Committee (PSRC) guidelines listed below.

Opportunities exist for predoctoral students to perform or participate in research at CDM. Students can perform independent research or participate in ongoing faculty or postgraduate student research. The following are guidelines or criteria to be followed:

- The earliest predoctoral students can participate in research is the winter semester of DMD I.
- A student must be in good standing; maintain a minimum average grade of *B* (80); and have a clear, non-grade-issue record.
- A student must be under the guidance of a faculty adviser at Nova Southeastern University who is experienced in the field of research the student is interested in.
- A student must be trained and certified in the Collaborative Institutional Training Initiative (CITI) Course in the Protection of Human Subjects.
- A student involved in independent research, assisting postgraduate residents, or ongoing faculty research projects must submit an application for eligibility and must have PSRC approval.

Predoctoral Honors Peer Tutoring

Students with exceptional academic records may be eligible to offer peer tutoring assistance to predoctoral students in need of academic assistance. Peer tutors will receive transcript credit and an hourly wage for their time.

Predoctoral Honors Clinical Participation Program

Students with exceptional academic records may be eligible for special clinical experiences in the third and fourth years of predoctoral study in endodontics, oral surgery, orthodontics, pediatric dentistry, and restorative dentistry. Selection of such participants will be at the discretion of the department chairperson and the CDM Office of Academic Affairs.

Research

NSU's College of Dental Medicine's research vision is to provide an infrastructure that fosters innovation, development, advancement, and dissemination of oral and craniofacial health sciences knowledge and related fields to benefit society. The college's research program strives to advance our academic growth and scientific reputation and presence through interdisciplinary research and the integration of basic, clinical, translational, public health, and educational research. The college strives to be a global leader in research and education by collaborating and sharing information with other units within the university and other university, federal, and private organizations, as well as by enhancing our facilities and recruiting distinguished faculty members. Its goal is to develop and sustain a research program of distinction by engaging faculty and staff members and students in research. Research efforts are directed toward meeting the needs of the health sciences community, the underserved and special care populations, and the public at large. Current research at NSU's College of Dental Medicine is focused around biomaterials, craniofacial anomalies and biology, evaluation of emerging therapeutics, regenerative medicine bioscience, epidemiology, and health services. The college has full-time research faculty members with degrees that include D.D.S./D.M.D., Ph.D.s, as well as basic science Ph.D.s. The international experience and reputation of the college's faculty members and the opportunities for research exchange add strength and diversity to the research program.

Postdoctoral Programs

NSU's College of Dental Medicine developed postdoctoral advanced education programs in several fields starting in the fall of 1997. There are training positions available in endodontics, operative dentistry, oral and maxillofacial surgery, orthodontics, pediatric dentistry, periodontology, prosthodontics, and advanced education in general dentistry.

These programs are supervised by board-certified and educationally qualified dental specialists.

Lectures, seminars, and multidisciplinary conferences related to patients and their dental treatment, as well as in research, are conducted. Students also serve as instructors in the predoctoral laboratory and clinic. An original research project must be completed by each student. Upon successful completion of the program requirements, trainees receive certificates in their respective specialties.

Postdoctoral Core Courses

All postdoctoral students are required to take the following courses during their first year:

CDM 5000—Advanced Dental Radiology

Consideration of hard and soft tissue craniofacial imaging modalities, including MRI, tomography, and digital imaging.

CDM 5004—Advanced Oral Histology and Embryology

Cytological and developmental considerations in embryological, fetal, and neonatal human craniofacial growth and development.

CDM 5005—Introduction to Postdoc Education

This course is designed for postgraduate residents entering their first year of postgraduate education at the College of Dental Medicine. Topics covered include implant dentistry, caries risk management, professional relations, tobacco cessation, domestic violence, ethics, standards of care and informed consent, infection control, risk management, dental photography, and dental lasers.

CDM 5006—Fundamentals of Biostatistics

Analysis of descriptive and inferential statistics as used in contemporary biomedical research, including electronic-based statistical programs.

CDM 5002—Research Design

The objective of this course is to learn how to plan research projects, initiate the projects, and effectively present the findings. Critical evaluation of the literature about the field of interest will be emphasized.

CDM 5003—Advanced Microbiology and Cell Biology

This course offers graduate training in microbiology, including virology, bacteriology, microbial genetics, and microbial pathogenesis.

CDM 5008—Advanced Medical Physiology

This course gives a detailed examination of cells and their transport—cardiac, pulmonary, and acid base—as related to maintenance of oral health and onset of disease.

CDM 5109—Ethics

This course reviews hallmarks of dental professional ethics and aspects of the law that commonly impact on the daily practice of dentistry.

CDM 5102—Advanced Oral and Maxillofacial Pathology

Gross and histological specimen consideration in hard and soft tissue diseases of the oral and maxillofacial structures.

CDM 5103—Advanced Head and Neck Anatomy Lecture Series

Didactic and dissection-based consideration of head and neck structure and function essential to advanced dental practice.

CDM 5104—Advanced Head and Neck Anatomy Lab Series

Laboratory-based consideration of head and neck structure and function essential to advanced dental practice.

CDM 5106—Advanced Systemic Oral Medicine and Pharmacology

This course expands on the predoctoral education regarding the topic of oral medicine. The seminars will discuss current and classic literature to help refine the skills of students in interpreting a medical history and dental management of medically complex patients.

CDM 8000—Advanced Dental Education Seminar Series

Postgraduate residents in their first postgraduate year attend this seminar series, which provides the opportunity for interdisciplinary learning at an advanced level. Presentations are given on topics related to advanced general dentistry, endodontics, oral and maxillofacial surgery, operative dentistry, orthodontics and craniofacial orthopedics, pediatric dentistry, periodontology, and prosthodontics followed by collegial discussion. Advanced treatment planning cases are also presented in a format that encourages interdisciplinary discussion of complex cases.

CDM 8001—Advanced Dental Education Seminar Series II

Postgraduate residents in their second postgraduate year attend this seminar series, which provides the opportunity for interdisciplinary learning at an advanced level. Presentations are given on topics related to advanced general dentistry, endodontics, oral and maxillofacial surgery, operative dentistry, orthodontics and craniofacial orthopedics, pediatric dentistry, periodontology, and prosthodontics followed by

collegial discussion. Advanced treatment planning cases are also presented in a format that encourages interdisciplinary discussion of complex cases.

CDM 8002—Advanced Dental Education Seminar Series III

Postgraduate residents in their third postgraduate year attend this seminar series, which provides the opportunity for interdisciplinary learning at an advanced level. Presentations are given on topics related to advanced general dentistry, endodontics, oral and maxillofacial surgery, operative dentistry, orthodontics and craniofacial orthopedics, pediatric dentistry, periodontology, and prosthodontics followed by collegial discussion. Advanced treatment planning cases are also presented in a format that encourages interdisciplinary discussion of complex cases.

Additionally, postdoctoral students are required to take didactic and clinical courses within their respective area of specialization throughout their training.

Postdoctoral Specialties

POSTDOCTORAL ADVANCED EDUCATION IN GENERAL DENTISTRY

The Department of Restorative Sciences and Public Health Dentistry offers an accredited, one-year Advanced Education in General Dentistry (AEGD 1) residency program with an optional second year (AEGD 2). The didactic portion of the program includes a core science curriculum designed to provide all postdoctoral residents with an advanced, interdisciplinary education and a detailed, general practice curriculum. The AEGD 2 program includes a didactic and clinical curriculum beyond the scope of practice of the AEGD 1 program. The program emphasizes the concept of comprehensive care for all patients, which includes preventative dentistry, restorative and digital dentistry, fixed prosthetics, removable prosthetics, implantology, endodontics, pediatric dentistry, oral surgery, and periodontology.

All residents serve the special needs population—including individuals with developmental disabilities, such as autism or cerebral palsy; acquired disabilities, such as traumatic brain or spinal cord injuries and stroke; mental illness and behavioral management challenges; complex medical conditions or compromised medical status; significant physical or mobility limitations, and the frail elderly. Residents receive training on techniques to relieve anxiety and assist in behavior management for the purpose of enabling special needs patients to cooperate in their care. Off-site rotations are included during the second year of training to expand the range of experiences available.

CDM 8052—Advanced Clinical Dentistry I

This lecture course focuses on monthly topics related to general dentistry. Topics include research, medical management, restorative/preventative dentistry, dental biomaterials, digital dentistry, endodontics, pedodontics, prosthodontics, periodontics, oral surgery, TMD, oral medicine, treatment planning, orthodontics, implants, and public health. Lectures will be presented by full-time faculty members and guest lecturers. This course is designed to provide an understanding of advanced dental principles and techniques to assess and treat oral disease in human populations using current, evidence-based literature. It serves as the foundation for clinical treatment rendered. Residents are also responsible for participating in, and presenting at, monthly literature reviews and case presentations. Additionally, residents will be responsible for conducting an original research project.

CDM 8050—AEGD Clinic I

Residents participate in, and provide, comprehensive clinical dental treatment of patients with a variety of oral health care needs. They incorporate the knowledge gained from didactic lectures as they provide comprehensive, multidisciplinary oral health care for patients at a level of skill and complexity beyond that accomplished in predoctoral training.

CDM 8051—AEGD Clinic II

This course is a continuation of CDM 8050. Residents continue to participate in, and provide, comprehensive clinical dental treatment of patients with a variety of oral health care needs. They incorporate the knowledge gained from didactic lectures as they provide comprehensive, multidisciplinary oral health care for patients at a level of skill and complexity beyond that accomplished during their CDM 8050 course.

CDM 8166—Advanced Clinical Dentistry II

This lecture course focuses on monthly topics related to general dentistry. Topics include research, medical management, restorative/preventative dentistry, dental biomaterials, digital dentistry, endodontics, pedodontics, prosthodontics, periodontics, oral surgery, TMD, oral medicine, treatment planning, orthodontics, implants, and public health. Lectures are presented by full-time faculty members and guest lecturers. This course is designed to provide an understanding of advanced dental principles and techniques to assess and treat oral disease in human populations using current, evidence-based literature. It serves as the foundation for clinical treatment rendered. Residents incorporate the knowledge gained from didactic lectures as they provide comprehensive, multidisciplinary oral health care for patients at a level of skill and complexity beyond that accomplished during their first year of AEGD training. Residents are also responsible for participating in, and presenting at, monthly literature reviews and case presentations. Additionally, residents are responsible for conducting an original research project.

CDM 8150—AEGD Clinic III

Residents participate in, and provide, comprehensive clinical dental treatment of patients with a variety of oral health care

needs. They incorporate the knowledge gained from didactic lectures as they provide comprehensive, multidisciplinary oral health care for patients at a level of skill and complexity beyond that accomplished in the PG-1 year. Rotations are required for this course to provide more complex and advanced patient experiences to the PG-2 residents. These include PG-2 resident rotations to

- NSU's Mailman Segal Center for Human Development (MSC) Pediatric Dental Clinic
- NSU's Dental Center at Cypress Creek
- NSU's College of Dental Medicine Department of Oral and Maxillofacial Surgery located at Broward Hospital

CDM 8151—AEGD Clinic IV

This course is a continuation of CDM 8150. Residents participate in, and provide comprehensive clinical dental treatment of patients with a variety of oral health care needs. They incorporate the knowledge gained from didactic lectures as they provide comprehensive, multidisciplinary oral health care for patients at a level of skill and complexity beyond that accomplished in the PG-1 year. Rotations are required for this course to provide more complex and advanced patient experiences to the PG-2 residents. These include PG-2 resident rotations to

- NSU's Mailman Segal Center for Human Development (MSC) Pediatric Dental Clinic
- NSU's Dental Center at Cypress Creek
- NSU's College of Dental Medicine Department of Oral and Maxillofacial Surgery located at Broward Hospital

POSTDOCTORAL ENDODONTICS

The postdoctoral program in endodontics is a 24-month certificate or 36-month master's degree program that integrates an extensive exploration of the dental literature, biological sciences, and clinical sciences, with the provision of a wide range of clinical procedures within the scope of endodontics as a dental specialty.

The clinical program in endodontics will focus on the delivery of patient care that is supported by both contemporary concepts and advanced technological developments. It will include, but not be limited to, the use of magnification in practice, the use of nickel titanium instruments, electronic apex locators, ultrasonic instrumentation and irrigation, digital and CBCT radiography, pulpal preservation procedures, regenerative procedures, and a wide range of surgical interventions. The program is bolstered in the delivery of contemporary care by its integration with the other dental specialties as appropriate.

The didactic program consists of a core curriculum that is designed to provide an interdisciplinary approach to the basic sciences as they relate to the specialty of endodontics and patient care. This basis is then supported by an in-depth review of the endodontic literature from both historical and contemporary perspectives and is designed to provide the resident student with the knowledge necessary to achieve board certification by the American Board of Endodontics.

To further the achievement of the residents and to provide the necessary educational experiences, the program will include experiences in research and the writing of protocols and, where indicated, grants for support, writing technical and scientific manuscripts, the potential for manuscript publication, experiences in the provision of lectures and seminars, and interaction with colleagues and leaders in endodontic education in professional meetings and seminars. The courses that exist within the endodontic curriculum are required of all residents and include the following:

CDM 5611–5618—Current Literature Review

This course focuses on monthly seminars that address the endodontic literature from a wide range of evidence-based and open access journals. These publications are reviewed and analyzed critically, with the intent of teaching residents how to read with discrimination. Residents will learn how to identify meaningful scientific and clinical merit and to integrate the information gleaned from these reviews with both the biomedical sciences and clinical delivery of patient care.

CDM 5621–5624—Classic Literature Review

This course consists of weekly seminars for first-year residents that focus on key endodontic literature that has provided the historical and contemporary basis for this specialty. Selected topics will provide the aspiring resident with an introduction to essential topics and clinical challenges in endodontics. This will include, but is not limited to, diagnosis, radiographic interpretation, treatment planning and case selection, tooth morphology, concepts within the provision of nonsurgical root canal procedures, regenerative initiatives, and treatment outcomes. It will also include pulpal preservation principles and procedures, such as the biological basis as it relates to both pulpal responses to adverse challenges and microbiological implications; the spread of infection; the disease process beyond the confines of the root canal system; and, when indicated, the surgical management of these challenges. These seminars use a topical format, providing the resident with the opportunity to investigate concepts that have molded and characterized the essence of this specialty over the past century. Residents will be taught how to read and analyze critically and relate their assessments to contemporary concepts and practices.

CDM 5625–5628—Classic Literature Review

This course is a continuation of CDM 5621–5624. It is designed for second-year residents to explore diverse and integrated topics not only within the scope of endodontics, but as this discipline integrates with other specialties. These topics

will focus on, but not be limited to, all types of tooth/root resorption, diagnosis of non-odontogenic pain, emergencies within the scope of endodontics, iatrogenic challenges, tooth trauma and management, alterations in tooth structure (cracks/fractures), pulpal/periodontal interrelationships, pediatric/endodontic relationships, restorative/endodontic relationships, orthodontic/endodontic relationships, bleaching of vital and non-vital teeth, aging and systemic health, patient records and responsibilities, and expansion of surgical concepts beyond root-end surgery. Residents will be taught how to read and analyze critically and relate their assessments to contemporary concepts and practices.

CDM 5631–5638—Endodontic Topic and Case Presentation

Residents are expected to prepare three one-hour lectures (consisting of slides and handouts) on different topics approved by the postgraduate director pertaining or relating to the field of endodontics. They will present these lectures to their endodontic peers, classmates, and faculty members, who will then critically evaluate them. This will provide the resident with the training necessary to teach endodontics to practitioners and dental students of all levels. Following the topic presentation, the resident will present at least five cases, from start to finish, with at least one recall per case. Cases must include clinical photos, chief complaint, history (dental and medical), medications, radiographs (CBCT if necessary), sensitivity testing, probing, pre-op diagnosis, access, working lengths, photos through microscope, final clinical photos/radiographs, and post-op diagnosis (if different than pre-op). Throughout the case presentations, roundtable discussions will occur to enhance the learning experience. When the resident has completed the topic requirement, he or she will present surgery cases (from both externship and NSU), unusual cases, and board portfolio cases.

CDM 5641–5648—Transition to Private Practice

These seminars are devoted to the realities of private or corporate dental practice. Topics covered include goals, location, type of practices, legal structures, modes of practice, set-up of an office, rent vs. purchase, space needed with physical layout, contracts, finances, running the staff, insurance, and practice building. This will aid the resident in achieving competence upon entering the business world.

CDM 5652—Advanced Microbiology

This course will provide advanced perspectives on the microbiology of the oral tissues focusing on pulpitis, infection, disinfection, and asepsis in endodontics.

CDM 5653—Advanced Immunology

This course will provide advanced perspectives on the human innate and adaptive immune systems that are relevant to dentistry and endodontics.

CDM 5661–5662—Mock Oral Boards

Each year, residents will be challenged as to their command of the endodontic literature as it relates to the provision of procedures within the scope of endodontics. An oral examination will be given to the residents by selected Diplomates of the American Board of Endodontics. They will provide a diverse set of circumstances and treatment challenges that are commonly seen in endodontic practice. Residents will have the opportunity to discuss and defend their diagnosis, treatment plan, chosen procedures, and outcomes of treatment. They will be expected to draw heavily on specific endodontic literature to support their case discussion. This course is designed to prepare residents for all phases of the examination process in the pursuit of board certification by the American Board of Endodontics.

CDM 5675–5678—Endodontic Surgery

These courses will provide residents with the knowledge of relevant biomedical sciences, clinical techniques, and new instruments and devices as they correlate to the theory and practice of surgical endodontics in accompaniment with their surgical experiences.

CDM 5681–5684—Endodontic Externship

This externship serves to educate residents with the knowledge and skills to diagnose, understand the basis of, and adequately interpret and treat—alone or in conjunction with other dental and medical practitioners—endodontic situations and their related diseases and to maintain the health of the attachment apparatus and integrity of the natural dentition. It provides residents with in-depth knowledge of relevant biomedical sciences as they correlate to the theory and practice of endodontics. It also provides residents with experience from a sufficient number of diagnostic cases, traumatic injuries, regeneration cases, and nonsurgical and surgical clinical experiences in other hospital settings and affords them the opportunity to work with and evaluate new instruments and techniques used to effectively treat medically compromised and special needs patients.

CDM 5685—Endodontic Surgical Externship

This externship serves to educate residents with the knowledge and skills to diagnose, understand the basis of, and adequately interpret and treat endodontic surgical situations to maintain the health of the attachment apparatus and integrity of the natural dentition. It will provide residents with surgical endodontics experience from a sufficient number of diagnostic and surgical clinical cases to result in proficiency in the practice of endodontics and prepare residents to effectively treat medically compromised and special needs patients. It will also afford students with the opportunity to work with and evaluate new instruments and techniques. During this externship, the student to faculty member ratio is one to one.

CDM 5695–5698—Teaching Enhancement/Methodology and Quality Assurance

These courses educate the graduating endodontist with knowledge and skills to diagnose, understand the basis of, and adequately interpret and treat—alone or in conjunction with other dental and medical practitioners—endodontic situations and their related diseases and to maintain the health of the attachment apparatus and integrity of the natural dentition. They provide the resident with in-depth knowledge of relevant biomedical sciences as they correlate to the theory and practice of endodontics and introduce in-depth advanced education in teaching methodology for the postgraduate resident.

Various teaching methodology will be presented to predoctoral residents, in forms including lectures and hands-on presentations, allowing them to demonstrate competency. Residents will be asked to evaluate endodontic outcomes (survival, success, failure, no change) through radiographs (CBCT's, periapicals-FMX's and panorex's) on the NSU College of Dental Medicine's pool of ongoing patients.

POSTDOCTORAL OPERATIVE DENTISTRY

The Department of Cariology and Restorative Dentistry offers a 24-month postdoctoral training program that is designed to fulfill the certification requirements of the American Board of Operative Dentistry. Residents are simultaneously enrolled in the Operative Dentistry and the Master of Science (M.S.) programs. A Certificate in Operative Dentistry and a Master of Science (M.S.) are awarded upon completion of the required core didactic courses, clinical competency program, and research project (including successful defense of a thesis). The program has been developed to be consistent with the objectives set forth in the ADEA (formerly AADS) "Curriculum Guidelines for Postdoctoral Operative Dentistry" (*J Dent Educ* 1993; 57: 832–836).

The Postdoctoral Operative Dentistry Program provides each graduate student with an opportunity to enhance his or her knowledge in three main areas: research, clinical training, and teaching. Participants pursue highly intensive clinical training while simultaneously following a rigorous academic curriculum that is research oriented.

First-Year Courses

CDM 7660—Advanced Operative Dentistry Clinic

Students will incorporate the knowledge gained from didactic studies as they provide clinical services and dental restorations for patients by using caries risk analysis, diagnosis, prevention, fluoride, sealants, oral hygiene instructions, amalgam, resin composites, ceramic, metals, glass ionomers, tooth-whitening procedures, remineralization techniques, laser diagnosis, and minimally invasive surgical procedures. The philosophy of the course is based on the medical model of caries management that includes caries risk assessment and formulation of the preventive treatment plan. The department stresses the importance of early diagnosis of both primary and secondary caries and those steps necessary to encourage reversal of those lesions before resorting to an irreversible surgical procedure. When surgical procedures are indicated, they will be performed following evidence-based standardized techniques taught in preclinical courses. The overlying goals of this course are restoration to health of the dental patient and the prevention of future dental caries.

CDM 7510—Advanced Cariology

This course is designed to standardize the first-year, advanced-operative residents in definition, diagnosis, and management of dental caries. The independent roles of all contributing factors and all preventive measurements will be discussed in detail. Assessing patients' caries risk and the appropriate treatment models will be emphasized.

CDM 7700—Advanced Treatment Planning

The advanced dental treatment planning course applies the principles and guidelines for comprehensive dental treatment planning for **in-classroom** patients' case-based presentations and group discussions. Postgraduate residents are expected to identify multidisciplinary cases on the clinic floor for a diagnostic work up including photographic documentation, mounted casts, and diagnostic wax-ups for the elaboration of treatment plans that will be presented in PowerPoint format and followed by class discussion.

CDM 7410—Literature Review Seminar

This is a continual weekly seminar devoted to the review of classic operative dentistry and related literature and discussion of research methods. Selected articles in a particular topic are carefully reviewed and analyzed. The residents learn to critically read and evaluate the scientific evidence that supports advanced restorative dentistry principles and practice.

CDM 7610—Evidence-Based Dentistry I

The Evidence-Based Dentistry I course is designed to present the fundamentals of evidence-based dentistry. The first part of the course includes principles of evidence-based dentistry, PICO exercises, question formulation, practical examples, and online databases and search strategies. Students learn how to use the EBD website, Cochrane Database, and clinical queries searches on PubMed. Additionally, clinical research designs (case-control design, case series, case report studies, cohort design, randomized controlled trial, and split mouth design) are introduced. Concepts of study design, research methods, and literature review are emphasized and critically compared. In the second part of this course, strategies for evaluating web-based health information will be highlighted. A critical study appraisal session of the main study designs is presented. The purpose of these sessions is to allow students to gain confidence in their own ability to assess research articles and overcome the misconception that the conclusions of an article are correct simply because it has been published. Students are

exposed to concepts of surrogates and true endpoints, bias and confounding assessing the effectiveness of treatments, and conflicts of interest in published research. Published literature is used as a basis for developing critical review skills and application of concepts during discussion.

CDM 7664—Operative Dentistry, Advanced Review Course

This lecture course presents the topic of diagnosis and treatment of carious lesions and other hard tissue defects, principles of direct restorative dentistry, and fundamental concepts in the practice of restorative dentistry. The lecture component, in conjunction with the laboratory component, provides the foundation for the student to utilize the same knowledge and techniques that will be used in clinical application.

CDM 7667—Fixed Prosthodontics Review Course

This course is designed to standardize and elevate first-year advanced operative dentistry residents' clinical and laboratory knowledge. The crown and fixed partial denture (FPD) section provides the techniques and skills required to prepare and fabricate diagnostic wax-ups, single crowns, and fixed partial dentures.

CDM 7668—Introduction to Implant Prosthetics Review Course

This course is designed to introduce the basic concepts and principles related to dental implants as pertains to implant prosthetics. The course format includes lecture, reading assignment materials, and hands-on activities.

CDM 5001—Graduate Dental Biomaterials

This is a course designed to provide a fundamental understanding of dental materials. Most dental professionals are not familiar with materials science terminology, definitions, and concepts that are required to select, manipulate, and evaluate the extraordinary range of dental materials products. This course treats structure and property relationships for metals, ceramics, polymers, and composites, as well as application-related information. It should form a framework to ensure that each student is capable of understanding the full complement of new products developed each year.

CDM 7666—CAD/CAM Restorative Dentistry

This combined lecture and laboratory course in CAD/CAM restorative dentistry presents the theory and practical application of high-tech dentistry. Students will learn the about the various systems for digital impression making and manufacture of restorations in the computer-assisted practice of the 21st century, including the CEREC (Sirona), E4D (D4D), Encode (Biomet 3i), Lava COS (3M), Itero (Kadent), etc. The laboratory component of the course will incorporate preparing teeth, as well as making impressions for natural teeth and implants and completing the final restoration.

CDM 7665—Academic Career in Operative Dentistry

This course will provide graduate students with the opportunity to gain experience in teaching. Students will be exposed to teaching experiences by participating in the undergraduate program. Opportunities to lecture, supervise preclinical and clinical activities, and prepare didactic material will be offered to students with the objective of helping to develop the skills and experiences needed in an academic career.

Second-Year Courses

CDM 7661—Advanced Operative Dentistry Clinic

Students will incorporate the knowledge gained from didactic studies as they provide clinical services and dental restorations for patients by using caries risk analysis, diagnosis, prevention, fluoride, sealants, oral hygiene instructions, amalgam, resin composites, ceramic, metals, glass ionomers, tooth-whitening procedures, remineralization techniques, laser diagnosis, and minimally invasive surgical procedures. The philosophy of the course is based on the medical model of caries management that includes caries risk assessment and formulation of the preventive treatment plan. The department stresses the importance of early diagnosis of both primary and secondary caries and those steps necessary to encourage reversal of those lesions before resorting to an irreversible surgical procedure. When surgical procedures are indicated, they will be performed following evidence-based standardized techniques taught in preclinical courses. The overlying goals of this course are restoration to health of the dental patient and the prevention of future dental caries.

CDM 7701—Advanced Treatment Planning

The advanced dental treatment planning course applies the principles and guidelines for comprehensive dental treatment planning for in-classroom patients' case-based presentations and group discussions. Postgraduate residents are expected to identify multidisciplinary cases on the clinic floor for a diagnostic work up including photographic documentation, mounted casts, and diagnostic wax-ups for the elaboration of treatment plans that will be presented in PowerPoint format and followed by class discussion.

CDM 7420—Literature Review Seminar

This is a continual weekly seminar devoted to the review of classic operative dentistry and related literature and discussion of research methods. Selected articles in a particular topic are carefully reviewed and analyzed. The residents learn to critically read and evaluate the scientific evidence that supports advanced restorative dentistry principles and practice.

CDM 7669—Academic Career in Operative Dentistry

This course will provide graduate students with the opportunity to gain experience in teaching. Students will be exposed to teaching experiences by participating in the undergraduate program. Opportunities to lecture, supervise preclinical and

clinical activities, and prepare didactic material will be offered to students with the objective of helping to develop the skills and experiences needed in an academic career.

POSTDOCTORAL ORAL AND MAXILLOFACIAL SURGERY

The program in oral and maxillofacial surgery is a four-year certificate program. It's objective is to prepare graduates for a successful and productive career in oral and maxillofacial surgery. The curriculum is designed to develop the clinical, academic, and communicative skills that will provide for diversified career options. The program is sponsored by the College of Dental Medicine (academic arm) and Broward Health Medical Center. At the completion of the program, an option to pursue a medical degree (M.D.) is available for eligible candidates. The program has been designed to give residents a broad academic and didactic experience in the complete spectrum of oral and maxillofacial surgery. Graduates of the program will be prepared to pursue a contemporary, full-scope oral and maxillofacial surgery practice and be prepared for licensure and the rigors of specialty board examination.

Four-Year Residency Curriculum

The first-year residency training is divided between oral and maxillofacial surgery, internal medicine, and anesthesia rotations. Four months are spent on the anesthesia service at Broward Health Medical Center, one month on pediatric anesthesia at Joe DiMaggio Children's Hospital, two months on the internal medicine service, and five months on the oral and maxillofacial surgery service.

Six months of the second year are spent on the oral and maxillofacial surgery service encompassing the outpatient clinics and respective Broward Health and Memorial Hospital services. Residents will have increased responsibilities this year, including overseeing the first-year residents, IV sedation cases, and operating room responsibilities. The other six months are spent on trauma/general surgery and are divided equally between Broward General and Memorial Level I trauma centers.

The third year of the program consists of expanded clinical training in oral and maxillofacial surgery at Broward Health Medical Center. The resident will function on a junior level, with experiences and expectations consistent with this level of training. This year of training includes one month of implant reconstruction and eleven months of oral and maxillofacial surgery service.

During the fourth year of the program, each resident serves as chief resident at Broward Health Medical Center and Memorial Regional Hospital. The primary responsibility of the chief resident is to oversee management of the oral and maxillofacial surgery surgical service. This includes, but is not limited to, formulating the call schedule, arranging resident case coverage of clinical responsibilities, and preoperative/postoperative patient evaluation and treatment in conjunction with designated faculty members. Residents will have rotations in implant reconstruction, craniofacial/cleft lip/palate surgery, and facial plastics.

It is expected that each resident have an abstract or poster based upon his or her research efforts for presentation at a national meeting and at the NSU CDM research day. Upon completion of the residency program, graduates will receive a certificate of training in oral and maxillofacial surgery. It is expected that all graduates will be prepared for the American Board of Oral and Maxillofacial Surgery examination and possess clinical aptitude in the full scope of oral and maxillofacial surgery.

POSTDOCTORAL ORTHODONTICS

The Department of Orthodontics and Dentofacial Orthopedics offers a 36-month program. The program is fully accredited by the Commission on Dental Accreditation. Residents are simultaneously enrolled in the orthodontic program and the Master of Science (M.S.) program. Upon completion of all program requirements, students are awarded both an M.S. degree and a Certificate in Orthodontics. A certificate-only track is not offered. Residents register for and take the American Board of Orthodontics (ABO) written examination as part of the program requirements. Residents fulfilling the graduation requirements of the program will be prepared to complete the ABO clinical examination. U.S., Canadian, and International graduates are encouraged to apply.

The full-time faculty members of this program represent a broad variety of academic, research, and clinical interests. In addition, the program employs numerous adjunct clinical faculty members, ensuring that residents are exposed to different techniques used in treating orthodontic patients.

Residents will treat adults, adolescents, and children and experience a variety of contemporary appliances and treatment disciplines, including orthognathic surgery. Interdisciplinary and dentofacial anomalies and Grand Rounds take place on a regular basis with other postgraduate residents and their respective faculty members and facilitate the treatment planning of complex cases. A diagnostic conference with faculty members occurs daily. All residents are required to attend these conferences.

The curriculum consists of clinical and didactic courses given through the department, as well as a core curriculum in which all postgraduate residents are enrolled. Residents are expected to be available 8:00 a.m. to 5:00 p.m., Monday through Friday and certain evenings and weekends for scheduled conferences, lectures, and seminars. It is unlikely that an individual would have time for outside work while an orthodontic resident.

Clinical Orthodontics I–XI

CDM 5050 Clinical Orthodontics I
CDM 5150 Clinical Orthodontics II

CDM 5250 Clinical Orthodontics III
CDM 5070 Clinical Orthodontics IV
CDM 5170 Clinical Orthodontics V
CDM 5350 Clinical Orthodontics VI
CDM 5360 Clinical Orthodontics VII
CDM 5370 Clinical Orthodontics VIII
CDM 5380 Clinical Orthodontics IX
CDM 5390 Clinical Orthodontics X
CDM 5400 Clinical Orthodontics XI

Clinical Orthodontics I–XI

These courses comprise the clinical component of the postgraduate orthodontic curriculum. Students will incorporate the knowledge gained from didactic studies as they provide orthodontic services for patients with a broad variety of malocclusions. Patients with typical malocclusions—those requiring early treatment, dentofacial orthopedics, orthognathic surgery, and/or interdisciplinary care—are selected as educational models. Techniques focus on standard edgewise technique including pre-torqued and pre-angulated brackets and lingual orthodontics. Various types of treatment approaches are presented.

Orthodontic Didactic

The orthodontic didactic courses include courses and seminars offered each semester. The courses follow the didactic process, fully developing a state-of-the-art understanding of contemporary orthodontics while being deeply built upon, the specialty's historic foundations. The structure of the orthodontic didactic component of the curriculum continually contributes to residents developing a knowledge base, including evidence-based science, of sufficient depth and breadth necessary for proficiency in modern orthodontics.

CDM 5060—Orthodontic Didactic I

The first year, summer semester, didactic course curriculum consists of specialized course seminars including Cephalometrics, Biomechanics I, Introduction to Clinical Orthodontics, Management of TMJ Disorders, Tweed Wire Bending, and the Graduate Research Seminar I. Each seminar series provides an in-depth approach to the specific subject matter, with seminar syllabi outlining seminar topics, assignments, and outcome assessment of student learning.

CDM 5160—Orthodontic Didactic II

The first year, fall semester, didactic course curriculum consists of specialized course seminars including Biomechanics II, Graduate Research Seminar II, Introduction to Orthodontics, reading, and science. Each seminar series provides an in-depth approach to the specific subject matter, with seminar syllabi outlining seminar topics, assignments, and outcome assessment of student learning.

CDM 5080—Orthodontic Didactic III

The first year, winter semester, didactic course curriculum consists of specialized course seminars including Orthodontic Theory I (which focuses on the application of theory to diagnosis and treatment planning), Craniofacial Growth and Development, and History of Orthodontics. Each seminar series provides an in-depth approach to the specific subject matter, with seminar syllabi outlining seminar topics, assignments, and outcome assessments of student learning.

CDM 5180—Orthodontic Didactic IV

The first year, spring semester, didactic course curriculum consists of specialized course seminars including Orthodontic Theory II, which focuses on the application of theory to diagnosis and treatment planning, and the Early Orthodontic Treatment seminar. Each seminar series provides an in-depth approach to the specific subject matter, with seminar syllabi outlining seminar topics, assignments, and outcome assessments of student learning.

CDM 5361—Orthodontic Didactic V

The second year, fall semester, didactic course curriculum consists of specialized course seminars including Orthodontic Theory III, which focuses on the application of theory to diagnosis and treatment planning; Orthodontics and Interdisciplinary Diagnosis and Treatment Planning I; and Surgical Orthodontics I. Each seminar series provides an in-depth approach to the specific subject matter, with seminar syllabi outlining seminar topics, assignments, and outcome assessments of student learning.

CDM 5351—Orthodontic Didactic VI

The second year, winter semester, didactic course curriculum consists of specialized course seminars including Orthodontic Theory IV, which focuses on the application of theory to diagnosis and treatment planning; Orthodontics and Interdisciplinary Diagnosis and Treatment Planning II; and Surgical Orthodontics II. Each seminar series provides an in-depth approach to the specific subject matter, with seminar syllabi outlining seminar topics, assignments, and outcome assessments of student learning.

CDM 5362—Orthodontic Didactic VII

The second year, spring semester, didactic course curriculum consists of specialized course seminars including Orthodontic Theory V, which focuses on the application of theory to diagnosis and treatment planning, and Orthodontics and Interdisciplinary Diagnosis and Treatment Planning III. Each seminar series provides an in-depth approach to the specific subject matter, with seminar syllabi outlining seminar topics, assignments, and outcome assessments of student learning.

CDM 5371—Orthodontic Didactic VIII

The third year, fall semester, didactic course curriculum consists of specialized course seminars including Orthodontic Theory

VI, which focuses on the application of theory to diagnosis and treatment planning, and Orthodontics and Interdisciplinary Diagnosis and Treatment Planning IV. Each seminar series provides an in-depth approach to the specific subject matter, with seminar syllabi outlining seminar topics, assignments, and outcome assessments of student learning.

CDM 5381—Orthodontic Didactic IX

The third year, winter semester, didactic course curriculum consists of specialized course seminars including Research Journal Publication I, which focuses on identifying suitable journals to publish an article in, based upon the student's master's degree-level thesis research, and Orthodontic Outcome Assessment I, a course preparing residents for self-assessment and final case presentations. Each seminar series provides an in-depth approach to specific subject matter, with seminar syllabi outlining seminar topics, assignments, and outcome assessments of student learning.

CDM 5391—Orthodontic Didactic X

The third year, spring semester, didactic course curriculum consists of specialized course seminars including Research Journal Publication II, which focuses on identifying suitable journals to publish an article in, based upon the student's master's degree-level thesis research, and Orthodontic Outcome Assessment II, a course preparing residents for self-assessment and final case presentations. Each seminar series provides an in-depth approach to specific subject matter, with seminar syllabi outlining seminar topics, assignments, and outcome assessments of student learning.

POSTDOCTORAL PEDIATRIC DENTISTRY

The Department of Pediatric Dentistry offers a 24-month, postdoctoral training program in pediatric dentistry. The program is designed to prepare residents for specialty certification by the American Board of Pediatric Dentistry (ABPD). This university- and hospital-based program includes significant hospital and extramural affiliations in South Florida.

Postgraduate core courses provide first-year residents with a didactic foundation to support the wide range of clinical situations they will experience. Hospital rotations in Pediatric Medicine, General Anesthesia, and Pediatric Emergency Medicine provide residents with clinical experience and deeper understanding of pediatric hospital practice. Lectures, seminars, guest speakers, and literature reviews occur weekly. Residents are active participants in a regional, multidisciplinary craniofacial anomalies team.

Patients requiring hospitalization and general anesthesia are treated in two area hospitals. Conscious sedation is utilized when appropriate. A partial listing of topics covered in lectures and seminars includes behavior management, restorative dental procedures, selecting and prescribing medications, pulp therapy, trauma, treatment of patients with special health care needs, and emergency management. Additional requirements, including successful completion of a mandatory, independent research project, are necessary to graduate.

The application deadline for all required materials is August 1. In addition to the Certificate in Postgraduate Pediatric Dentistry, residents can also concurrently earn the Master of Science degree. The Master of Science degree can be completed in two years. Information on that degree can be found in this section.

Students are trained in hospital and operating room protocol including the use of general anesthetics.

CDM 6000—Pediatric Dentistry Didactic I

The aim of the course is to provide the resident with an understanding of the basic principles and theories of child development and the age-appropriate behavior responses in the dental setting, as well as the objectives of various guidance methods such as principles of communication, informed consent, and objectives of sedation and general anesthesia as behavior guidance techniques. Students will acquire a judicious integration of systematic assessments of clinically relevant scientific evidence.

CDM 5190—Pediatric Dentistry Didactic II

The aim of the course is to provide the resident with an understanding of the mechanisms and patterns of craniofacial growth and development from prenatal through adulthood. Students will learn and understand the different mechanisms and treatment options in the different malocclusion in the child and adolescent patient; be familiar with methods of prevention of dental caries and periodontal diseases in children and adolescents; understand the complexity of the caries disease and its different manifestations; learn to diagnose and treat different caries stages; know and do advanced technique in operative procedures; and know the indications and contraindications of pulpotomy and pulpectomy in primary dentition, as well as techniques for apexification and revascularization in young, permanent teeth.

CDM 6020—Pediatric Dentistry Didactic III

The aim of the course is to provide the resident with an understanding and treatment alternatives in different clinical situations such as orofacial injuries, periodontal diseases, craniofacial disorders, special needs care patients, and medically compromised patients. Students will acquire a judicious integration of systematic assessments of clinically relevant scientific evidence.

CDM 6110—Pediatric Dentistry Didactic IV

In this didactic course, a significant revision of the main areas in pediatric dentistry will be presented by different faculty members from the pediatric dentistry department and other disciplines at NSU. The residents will acquire a judicious integration of systematic assessments of clinically relevant scientific evidence.

CDM 5090—Pediatric Dentistry Clinic I

Residents will incorporate the knowledge gained from didactic studies as they provide pediatric dentistry services for infants, children, adolescents, and patients with special health care needs with a broad variety of oral and dental problems. They will collect patient data, including dental and medical histories and appropriate radiographs and photographs; organize data into coherent and viable treatment plans; and present treatment plans to patients and their families, faculty members, and fellow residents. After a case is treated, follow-up visits and presentations will be given at six months and annually.

CDM 6100—Pediatric Dentistry Clinic II

Residents will incorporate the knowledge gained from didactic studies as they provide pediatric dentistry services for infants, children, adolescents, and patients with special health care needs with a broad variety of oral and dental problems. They will collect patient data, including dental and medical histories and appropriate radiographs and photographs; organize data into coherent and viable treatment plans; and present treatment plans to patients and their families, faculty members, and fellow residents. After a case is treated, follow-up visits and presentations will be given at six months and annually.

CDM 5290—Pediatric Dentistry Clinic III

Residents will incorporate the knowledge gained from didactic studies as they provide pediatric dentistry services for infants, children, adolescents, and patients with special health care needs with a broad variety of oral and dental problems. They will collect patient data, including dental and medical histories and appropriate radiographs and photographs; organize data into coherent and viable treatment plans; and present treatment plans to patients and their families, faculty members, and fellow residents. After a case is treated, follow-up visits and presentations will be given at six months and annually.

CDM 6120—Pediatric Dentistry Clinic IV

Residents will incorporate the knowledge gained from didactic studies as they provide pediatric dentistry services for infants, children, adolescent, and patients with special health care needs with a broad variety of oral and dental problems. They will collect patient data, including dental and medical histories and appropriate radiographs and photographs; organize data into coherent and viable treatment plans; and present treatment plans to patients and their families, faculty members, and fellow residents. After a case is treated, follow-up visits and presentations will be given at six months and annually.

POSTDOCTORAL PERIODONTICS

The postdoctoral program in periodontics is a 36-month certificate program that fulfills the specialty requirements of the American Dental Association Commission on Dental Accreditation and the American Board of Periodontology. The resident may also elect to pursue the optional Master of Science degree, which may be earned concurrently with the certificate course of study. The program is open to dentists who have graduated (or will graduate) from an accredited United States or Canadian dental school or from an international dental school that provides an equivalent educational background and standing. Completion of a General Practice Residency, Internship, Advanced Education in General Dentistry, or other post-dental school professional activities are encouraged but not required.

The program consists of a didactic core curriculum in basic and behavioral sciences, a series of seminars in periodontology and implant dentistry, literature review seminars, periodontal prosthetics, and intravenous moderate sedation. Residents will participate as clinical instructors in the predoctoral periodontology clinic and perform research related to periodontology.

The program is designed so that, at the conclusion of the residents' training, they can provide comprehensive periodontal and implant dentistry care using a variety of surgical and nonsurgical modalities that encompass the full spectrum of the current state-of-the-art procedures. Residents participate in a variety of educational activities that prepare them for careers in clinical practice, education, or research, giving them the skills and knowledge to successfully pursue certification by the American Board of Periodontology.

CDM 5200—Sedation and Anesthesia in Periodontics

This course focuses on the didactic and clinical aspects of managing patient anxiety through the use of iatrosedation, nitrous oxide/oxygen analgesia, oral sedation, and IV moderate sedation. The residents will gain experience with these modalities through laboratory sessions and the administration of these techniques to their patients in the course of providing comprehensive patient care in the postgraduate periodontics clinic.

CDM 6030—Advanced Clinical Periodontics I

This course offers clinical instruction related to the diagnosis, prognosis, and treatment of periodontal diseases.

CMD 6031—Foundation of Implant Dentistry

This course is designed to provide an advanced understanding of the fundamentals and principals of implant dentistry. It will provide the information necessary to allow first-year residents to utilize a team approach for placing and restoring the dentition with dental implants. During this course, first-year residents and faculty members will analyze and discuss the classic and current implant dentistry literature.

CDM 6032—Immunoregulation of Periodontal and Peri-Implant Diseases

This course integrates the knowledge of immunoregulation to wound healing and current treatment strategies. At the completion of this course, all the residents will understand the physiological, biochemical, and immunological regulation of healthy and diseased periodontal and peri-

implant tissues. First-, second-, and third-year residents will also recognize the rationale of current materials and techniques used in periodontology and implant dentistry in relation to pathogenesis of periodontal and peri-implant diseases.

CDM 6033—Current Literature, Case Discussion, and Topic Presentation in Periodontics and Implant Dentistry

During this didactic course, first-, second-, and third-year residents will learn how to present a case and a topic using the material learned in seminars and core courses. This course will help residents to prepare for the In-Service exam and American Board of Periodontology Exam. At the completion of the course, residents will be able to stay up to date with the current literature in periodontics and implant dentistry.

CDM 6034—Classic Literature in Periodontology and Implant Dentistry

Classic Literature is a participatory seminar course for residents in periodontics in their first, second, and third year of training. Residents are responsible for obtaining, reading, abstracting, and understanding articles that have been identified as required reading. Additionally, residents are expected to be familiar with principles, materials, methods, and statistical analyses, which are necessary to understand the articles under discussion. Most importantly, residents are expected to collate the articles into a broader understanding, which becomes the basis for the therapy they provide to their patients. The seminar is led by a postgraduate resident on a rotating basis. The seminar leader is responsible for the planning and organization of the seminar, ensuring that the topic is covered in a logical basis with articles grouped into appropriate sections.

CDM 6035—Advanced Periodontics: Diagnosis and Treatment Planning

This course offers didactic instruction related to diagnosis and treatment of periodontal diseases. First-year residents and faculty members will discuss classic and current literature related to the diagnosis, prognosis, and non-surgical and surgical treatment modalities of periodontal diseases. First-year residents will understand all the aspects related to periodontal examination, diagnostic, and photographs for case documentation.

CDM 6050—Advanced Clinical Periodontics IV

This course offers clinical instruction and demonstrations in the use of advanced periodontal and implant therapy. Residents will be exposed to multidisciplinary cases and will be able to make diagnosis and execute advanced treatment plans.

CDM 6070—Advanced Clinical Periodontics VII

This course will provide residents with a deep knowledge of quality patient care and allow them to become proficient in providing periodontal and implant surgical care. Also, it will help them develop the capabilities necessary to participate as members of the total health care team, as well as correlate the dental and medical literature with clinical practice.

CDM 6130—Advanced Clinical Periodontics II

This clinical course offers instruction related to the full scope of periodontal treatment planning. Residents will be exposed to diverse treatment modalities, including surgical and nonsurgical therapies.

CDM 6150—Advanced Clinical Periodontics V

This course offers clinical instruction in the treatment of advanced and complexes cases. Periodontal, prosthodontics, and implant therapy modalities will be emphasized.

CDM 6170—Advanced Clinical Periodontics VIII

This course is designed to offer instruction on clinical and practice management. Residents will be assessing their clinical outcomes and be able to understand the importance of continuity maintenance of their cases.

CDM 6230—Advanced Clinical Periodontics III

This clinical course provides instruction that will lead the resident to have sufficient number of diagnostic, nonsurgical, and surgical clinical experiences. It will also cover implant therapy as a treatment modality.

CDM 6250—Advanced Clinical Periodontics VI

This course is designed to offer clinical instruction in the treatment and patient management of complex cases in conjunction with other disciplines.

POSTDOCTORAL PROSTHODONTICS

The 36-month postdoctoral program combines clinical experience with didactic instruction leading to a Certificate in Prosthodontics. Students may also elect a course of study leading to a master's degree program. The certificate program satisfies the formal training requirements for eligibility for the American Board of Prosthodontics examination, and students are encouraged to pursue board certification. The program is fully accredited by the American Dental Association Commission on Dental Accreditation.

The didactic portion of the program includes a core curriculum designed to provide all postdoctoral students with a basic interdisciplinary education and a prosthodontics curriculum based on the review of classic and current dental literature, interdisciplinary seminars, and treatment planning presentations. The program also includes research, teaching, and continuing education courses by visiting faculty members.

The clinical portion of the program consists of extensive patient care within the different treatment modalities in prosthodontics (fixed, removable, and implant) and exposure to patients suffering from TMD or sleep-related disorders. It also encompasses the surgical placement of implants, as well

as laboratory work supported by state-of-the-art technology and dental materials.

In addition to the postdoctoral core courses offered during the first year of the program, all postdoctoral prosthodontics residents are required to take the following courses:

CDM 7300—Advanced Fixed Prosthodontics Course

This course is designed to standardize and elevate the first-year, advanced prosthodontics resident's clinical and laboratory knowledge in Fixed Prosthodontics. Techniques and skills required at a laboratory level to prepare and fabricate diagnostic wax-ups, single crowns, fixed partial dentures, and provisionals will be covered. In addition, demonstrations and hands-on training are to be provided in the simulation laboratory on teeth preparations for indirect and direct restorations and electrosurgery techniques for tissue management.

CDM 5001—Advanced Dental Materials

This is an advanced course covering dental materials science, test methods, properties of dental materials, and clinical applications.

CDM 7000—Advanced Didactic Prosthodontics I

This course offers didactic instruction related to the diagnosis and treatment of the advanced prosthodontic patient. Residents will review the classic and current literature related to fixed, removable, and implant prosthodontics. Articles are selected and discussed among the residents and faculty members. Residents will learn to analyze, summarize, and apply the literature to their clinical practice. Ultimately, residents will learn how to elaborate comprehensive treatment plans based on evidence-based dentistry.

CDM 6090—Advanced Clinical Prosthodontics I

This course focuses on the clinical aspect of prosthodontics, including fixed, removable, and dental implant-related therapies. Residents provide comprehensive therapy beginning with the complete examination, diagnosis, treatment planning, and treatment of patients with advanced prosthetic needs.

CDM 7100—Advanced Didactic Prosthodontics II

This course offers didactic instruction related to diagnosis and treatment of advanced prosthodontic cases. Residents will be able to demonstrate integration of fixed, removable, and implant dentistry in comprehensive diagnosis and treatment planning. Residents will also review the classic and current literature related to advanced prosthodontics. Articles are selected and discussed among the residents and faculty members. Residents will learn to analyze and apply the literature to their clinical practice. Case presentations involving multidisciplinary patient care will integrate concepts in the comprehensive understanding and planning of advanced cases.

CDM 6190—Advanced Clinical Prosthodontics II

This course focuses on the clinical aspect of prosthodontics, including fixed, removable, and dental implant-related therapies. Residents provide comprehensive therapy beginning with the complete examination, diagnosis, treatment planning, and treatment of patients with advanced prosthetic needs. In addition, residents will start developing clinical skills relating to implant dentistry, including the placement and maintenance of dental implants.

CDM 7020—Advanced Didactic Prosthodontics III

Residents will continue to review all the concepts related to diagnosis, prognosis, and treatment planning of the prosthodontic patient in areas of fixed, removable, and implant prosthetics. This didactic course will also offer instructions on surgical and nonsurgical treatment modalities, including implant therapy.

CDM 6290—Advanced Clinical Prosthodontics III

This course focuses on the clinical aspect of prosthodontics, including fixed, removable, and dental implant-related therapies. Residents provide comprehensive therapy beginning with the complete examination, diagnosis, treatment planning, and treatment of patients with advanced prosthetic needs.

CDM 7120—Advanced Didactic Prosthodontics IV

This course provides in-depth knowledge related to the diagnosis, treatment, and prognosis of the advanced prosthodontic patient in areas of fixed, removable, and implant prosthodontics. Residents will continue reviewing the classic and current literature related to advanced prosthodontics. Articles are selected and discussed among the residents and faculty members. Residents will learn to analyze and apply the literature to their clinical practice. Case presentations involving multidisciplinary patient care will integrate concepts in the comprehensive understanding and planning of advanced cases.

CDM 7010—Advanced Clinical Prosthodontics IV

This course focuses on the clinical aspect of prosthodontics, including fixed, removable, and dental implant-related therapies. Residents provide comprehensive therapy beginning with the complete examination, diagnosis, treatment planning, and treatment of patients with advanced prosthetic needs. In addition, residents will start developing clinical skills relating to implant dentistry, including the placement and maintenance of dental implants.

CDM 7040—Advanced Didactic Prosthodontics V

This course offers didactic instruction related to diagnosis and treatment of advanced prosthodontic cases. Residents will be able to demonstrate integration of fixed, removable, and implant dentistry in comprehensive diagnosis and treatment planning. Residents will also review the classic and current literature related to advanced prosthodontics. Articles are selected and discussed among the residents and faculty

members. Residents will learn to analyze and apply the literature to their clinical practice. Case presentations involving multidisciplinary patient care will integrate concepts in the comprehensive understanding and planning of advanced cases.

CDM 7110—Advanced Clinical Prosthodontics V

This course focuses on the clinical aspect of prosthodontics, including fixed, removable, and dental implant-related therapies. Residents provide comprehensive therapy beginning with the complete examination, diagnosis, treatment planning, and treatment of patients with advanced prosthetic needs.

CDM 7140—Advanced Didactic Prosthodontics VI

This course will offer advanced didactic information in the diagnosis and treatment of the advanced prosthodontic patient. Multidisciplinary approaches and modalities will be covered and instructed. This course offers a complete program on diagnosis, treatment planning, prognosis, and maintenance of comprehensive and prosthetically involved patients. Patient management and patient communication will be emphasized. Practice management will also be covered.

CDM 7210—Advanced Clinical Prosthodontics VI (CRN 10043)

This course focuses on the clinical aspect of prosthodontics including fixed, removable, and dental implant-related therapies. Residents provide comprehensive therapy beginning with the complete examination, diagnosis, treatment planning, and treatment of patients with advanced prosthetic needs.

CDM 7030—Advanced Clinical Prosthodontics VII (CRN 7030)

This course focuses on the clinical aspect of prosthodontics, including fixed, removable, and dental implant-related therapies. Residents provide comprehensive therapy beginning with the complete examination, diagnosis, treatment planning, and treatment of patients with advanced prosthetic needs.

CDM 7130—Advanced Clinical Prosthodontics VIII (CRN 40448)

This course focuses on the clinical aspect of prosthodontics, including fixed, removable, and dental implant-related therapies. Residents provide comprehensive therapy beginning with the complete examination, diagnosis, treatment planning, and treatment of patients with advanced prosthetic needs.

Anticipated Expenses

Equipment costs for each program will be equal to or less than the average for all U.S. dental schools.

Admissions Requirements—Postdoctoral Programs

The College of Dental Medicine selects postdoctoral students based on application content, academic record, letters of recommendation, test scores (if applicable), and personal interview. Most of the postdoctoral programs utilize the PASS application process, with the exception of endodontics. Applicants are required to complete an NSU College of Dental Medicine application for postdoctoral students for all specialties. Applicants should refer to *dental.nova.edu* for program-specific requirements.

Prior to matriculation, applicants must have completed a D.M.D., D.D.S., or an equivalent degree.

Application Procedures

Applicants must send all required materials listed to

Nova Southeastern University
Enrollment Processing Services
College of Dental Medicine, Office of Admissions
3301 College Avenue, P.O. Box 299000
Fort Lauderdale, FL 33329-9905

The deadlines for applications vary by program and can be found on the admissions website (*dental.nova.edu*).

1. the completed College of Dental Medicine application for postdoctoral students

2. a nonrefundable application fee of $50

3. an official transcript from each college, professional school, or university attended

Coursework taken at a foreign institution must be evaluated for U.S. institution equivalence by an approved National Association of Credential Evaluation Services (NACES) organization, such as one of the services listed below.

- World Education Services, Inc.
  Attn: Documentation Center
  Bowling Green Station
  P.O. Box 5087
  New York, NY 10274-5087
  (212) 966-6311 • 800-361-3106 • *wes.org*

- Josef Silny & Associates, Inc.,
  International Education Consultants
  7101 SW 102 Avenue
  Miami, FL 33173
  (305) 273-1616 • (305) 273-1338 fax
  info@jsilny.org • *jsilny.org*

- Educational Credential Evaluators, Inc.
  101 West Pleasant Street, Suite 200
  Milwaukee, WI 53212-3963
  (414) 289-3400 • *ece.org*

It is the applicant's responsibility to have this coursework evaluated. An official course-by-course evaluation with a cumulative grade point average must be sent directly from the evaluation service to Nova Southeastern University, Enrollment Processing Services, College of Dental Medicine Admissions, 3301 College Avenue, P.O. Box 299000, Fort Lauderdale, FL 33329-9905.

4. The applicant must provide an official letter of graduation from the dean or designee of that institution, supporting the granting of the dental degree from that institution.

The applicant must arrange for the following to be sent to NSU.

1. official test scores, if applicable

   a. AEGD applicants will need to submit National Board scores

   b. Orthodontic program applicants will need to submit Graduate Record Examination (GRE) scores

   c. Oral and Maxillofacial Surgery applicants will need to submit National Board of Medical Examiners Comprehensive Basic Science Examination scores.

2. three letters of recommendation (They must be completed by dental school faculty members who are well acquainted with the applicant's abilities or by individuals who can provide information relevant to the applicant's potential. Letters from friends or family members are not acceptable.) For those programs using the PASS application process, applicants may also submit up to five Personal Potential Indexes (PPI) with their PASS application.

Upon receipt of the completed application and the required credentials, the director of each postdoctoral program, along with the Committee on Admissions, will select applicants to be interviewed. Those selected will be notified in writing. Not all applicants will be granted an interview. All applicants who are admitted to the college must be interviewed, but an invitation to appear for an interview should not be construed as evidence of acceptance.

Postdoctoral Tuition and Fees

- Tuition for all postdoctoral programs for 2021–2022 (subject to change by the board of trustees without notice) will be posted on our website (*dental.nova.edu*). A Dental Medicine Program General Access Fee of $145 and an NSU Student Services Fee of $1,500 are both required annually. A registration fee of $30 is required each semester.

- Acceptance/Preregistration fee is $2,000 (Endodontics—$4,000). This fee is required to reserve the accepted applicant's place in the entering first-year, postdoctoral class. This advance payment will be deducted from the tuition payment due on registration day, but is not refundable in the event of a withdrawal. It is payable within two weeks of an applicant's acceptance.

The first semester's tuition and fees, less the $2,000 (Endodontics—$4,000) previously paid, are due on or before registration day. Tuition for each subsequent semester is due on or before the appropriate registration day. Students will not be admitted until their financial obligations have been met. It is extremely important that applicants be committed to meeting their financial responsibilities during their training. This should include tuition, living expenses, books, equipment, and miscellaneous expenses.

It is mandated that each student carry adequate personal medical and hospital insurance. Students may avail themselves of the hospitalization insurance plan obtainable through the university.

Master of Science Program

The Master of Science (M.S.) Program of the College of Dental Medicine (CDM) provides advanced education in study design and research methodology that culminates in a thesis. This program provides graduates with a foundation for academic careers and a better understanding of oral biology and the scientific basis of clinical dentistry. Typically, integrating clinical specialty training with the M.S. requires up to three years for completion.

According to the American Dental Association Foundation, the quality of dental education in the United States serves as a standard for the remainder of the world. As such, maintaining the quality of future faculty members teaching in dental schools is of utmost importance. Currently, there is a significant lack of academic training for future dental academicians, especially those trained in both clinical and academic dentistry. Moreover, there are many unfilled, funded faculty positions available in U.S. dental schools. The research and thesis experiences of this program require graduates to develop critical thinking, enabling them to more readily pursue research activities and academic careers. A student graduating from this program will, therefore, have many opportunities to pursue a career in academics, as well as in the private sector.

One of the main characteristics of the Master of Science Program is the mentee/mentor collaborative relationship. Mentors not only provide guidance for student's research efforts, but they are also faculty role models who exemplify the pursuit of academic careers within dentistry and other health professions. The collaborative efforts of mentee and mentor provide students with firsthand insights of an academic or research career. This program provides the dental professional graduate student with an overall knowledge of health sciences research. It is expected that a graduate from this program will be qualified to work at any university in the United States or abroad.

Students enrolled concurrently in both an advanced dental education certificate program and the M.S. program must not allow requirements of the master's degree program to interfere with their responsibilities and requirements in the advanced dental education program. It is expected that students' activities related to the M.S. program will complement their dental education certificate programs and that they will exercise sound judgment in time-management to excel in both programs. Students are encouraged to initiate their master's degree research study early in their certificate program. Historically, completion of the Master of Science Program coincided with completion of the student's clinical certificate program. However, it should be noted that students do have a limit of up to five years from the date of matriculation into their respective certificate program to fulfill all of the requirements of the Master of Science Program.

Students currently enrolled in the certificate programs in the department of orthodontics must complete the requirements of the M.S. program in partial fulfillment of the graduation requirements of their certificate program. Students enrolled in any of the other CDM advanced dental education certificate programs must seek the approval of their respective advanced dental education program director to participate in this program. All students seeking to enroll in the M.S. program must submit the NSU Master of Science application to the program as soon as possible after matriculation into their respective certificate programs. While the advanced dental education program directors must monitor students' activities in their respective advanced dental education certificate programs, the master's degree program director must approve and monitor students' activities in their M.S. program. The advanced dental education program directors and the master's degree program director will work together to monitor students' overall educational activities in these two concurrent programs.

Admissions Requirements

Those applying for entry into the Master of Science Program as full, degree-seeking candidates must meet the following eligibility requirements:

1. Applicants must have matriculated in a CDM clinical training program.

2. Applicants are required to submit a 250- to 300-word letter of interest in this program articulating their career plan, capabilities, and area(s) of scientific interest, along with two letters of reference from individuals familiar with the candidate's aptitude to perform adequately at a graduate level.

3. Applicants must complete and submit the application for admission to the program and submit a description of their proposed research projects.

Application Procedures

Applicants must send all of the following required materials to

Nova Southeastern University
Enrollment Processing Services
College of Dental Medicine, Office of Admissions
3301 College Avenue, P.O. Box 299000
Fort Lauderdale, FL 33329-9905

1. the completed College of Dental Medicine application

2. a nonrefundable application fee of $50

3. an official transcript from each college, professional school, or university attended

Coursework taken at a foreign institution must be evaluated for U.S. institution equivalence by an approved National Association of Credential Evaluation Services (NACES) organization, such as one of the services listed following.

- World Education Services, Inc.
  Attn: Documentation Center
  Bowling Green Station
  P.O. Box 5087
  New York, NY 10274-5087
  (212) 966-6311 • 800-361-3106 • *wes.org*
- Josef Silny & Associates, Inc.,
  International Education Consultants
  7101 SW 102 Avenue
  Miami, FL 33173
  (305) 273-1616 • (305) 273-1338 fax
  info@jsilny.org • jsilny.org
- Educational Credential Evaluators, Inc.
  101 West Pleasant Street, Suite 200
  Milwaukee, WI 53212-3963
  (414) 289-3400 • *ece.org*

It is the applicant's responsibility to have this coursework evaluated. An official course-by-course evaluation with a cumulative grade point average must be sent directly from the evaluation service to Nova Southeastern University, Enrollment Processing Services, College of Dental Medicine Admissions, 3301 College Avenue, P.O. Box 299000, Fort Lauderdale, FL 33329-9905.

4. an official letter of graduation from the dean or designee of the foreign institution, supporting the granting of the dental degree from that institution

The applicant must also arrange for the following to be sent to NSU.

1. official National Board scores (Please request the secretary of the National Board of Dental Examiners to forward all scores of the dental boards. The National Board is located at 211 East Chicago Avenue, Chicago, IL, 60611. Applicants who have not taken the National Boards must submit a letter of explanation.)

2. two letters of recommendation completed by dental school faculty members who are well acquainted with the applicant's abilities or by individuals who can provide information relevant to the applicant's potential

Upon receipt of the completed application, the required credentials, and the approval of the director of each program, the Master's Degree Admissions Committee will select applicants to be interviewed. Those selected will be notified in writing.

Tuition and Fees

Tuition for 2021–2022 will be posted on our website (*dental.nova.edu*). A Dental Medicine Program General Access Fee of $145 and an NSU Student Services Fee of $1,500 are both required annually. A registration fee of $30 is required each semester. All tuition and fees are subject to change by the board of trustees without notice. It is required that each student carry adequate personal medical and hospital insurance. Students may avail themselves of the hospitalization insurance plan obtainable through the university.

Course Descriptions

WRIT 5110—Writing Science

Through weekly writing exercise, feedback, and instruction, this course provides tools and techniques for lively and compelling scientific writing. Students will find much to use when tackling a master's degree thesis, future article, study proposal, or even an effective memorandum or professional communications.

CVR 7200—Bioethics and Ethical Issues in Health Care

Health care professionals are required to act morally and ethically. This course is designed to expand the student's basic understanding of ethics, promoting ethical awareness and enabling students to derive better health care decisions that reduce the risk of potential ethical consequences. Exposing students to bioethics and controversial ethical issues typically encountered in current health care allows them to practice making difficult decisions. Students will synthesize and implement strategies for applying morals, values, and ethics systematically in the various settings in which health care is delivered. Considering the perspectives of all stakeholders and the role of the health care provider, patient advocate, professional, and consumer of medical care, students will gain workable knowledge of contemporary ethical issues and appreciate that ethics permeate the majority of decisions made in health care.

CVR 7300—Biostatistics

This introductory statistical course will introduce elementary methods for presenting biological data in summary form, analyzing biological data, and designing experiments. It is not a mathematics course, so will not stress derivations of formulae but, rather, will emphasize the application of statistical ideas and methods to the analysis and interpretation of biological experiments and comparative data. The student will be able to assess a situation involving data analysis, state the null and alternative hypotheses proposed, decide on the correct statistical procedure to test the null hypothesis and the assumptions of the test used, calculate the statistic, assess its statistical significance, and interpret the data in light of the calculated result. Assessment of a student's performance will be done through the use of problem sets, quizzes, and a final exam.

CVR 7310—Fundamentals of Statistical Inference

This course is the second course in the biostatistics sequence and is intended for consumers of statistics in the biological and medical fields, as well as researchers. It will concentrate on the more advanced methods of statistical analysis that are typical of biological and medical applications of statistics. For this course, the student will need to be familiar with basic statistics and statistical techniques as presented in CVR 7300. Students will be using the statistical program R to perform statistical processing; therefore, students must have basic skills in the use of R.

CVR 7400—Clinical Research Design

This course will provide students with an understanding of the basic methods and approaches used in health-related research. A major emphasis of the course will be on the conceptualization and design of research studies. The course will cover ethics, formulation of research questions, study design, reliability, validity, sampling, measurement, and interpretations of research findings. It will prepare students to critically evaluate published research articles, to abstract information and interpret findings appropriately from the published literature, and to design sound research studies. The course will be both theoretical and practical. Students will be challenged to apply the theoretical concepts presented in the classroom and in the readings to design studies to address health-related issues of their choice.

CVR 7500 Information Science for Clinical Research

This course introduces the student to the concept of a literature review as it relates to the development of a research proposal. Students will specify a research problem and provide an appropriate review of the literature. This literature review will identify and discuss related research that sets the proposed project within a conceptual and theoretical context. Students will learn to use reference sources (both electronic and hard copy) available in most public and academic libraries and/or via the Internet to locate and evaluate literature pertinent to clinical and basic vision science and basic research in related medical sciences. Use of evidence-based medicine as a research tool will be covered. Students will be expected to identify and effectively utilize all relevant information resources in their geographical area essential to the preparation of a thorough, high-quality literature review.

CVR 7600—Introduction to Research Funding and Proposal Development

This course enables the student to gain an in-depth understanding of the essential components of a well-written research proposal that addresses an identified scientific problem and the process for submitting the proposal to an agency/organization, requesting funding support to study the problem. Students will become familiar with a number of funding sources, including federal and state government and private foundations and corporations that support vision or dental research projects, and learn to use a variety of resources to target potential funding sources. They will become familiar with various grant-related terminology, as well as guidelines, rules, and regulations of awarding agencies, with particular focus on the National Institutes of Health (NIH) organization.

Students will be expected to come prepared to explore and discuss potential research areas they would like to study and to focus on ideas about projects to address their interests. They will be able to demonstrate their understanding of the essential components of a well-written proposal, including the significance statement, objectives and hypotheses, experimental design and methods, and the budget through class handouts, virtual discussions, and appropriate class activities related to the required readings.

CVR 7800—Ethical and Legal Issues in Human Subjects Research

This course introduces the ethical and regulatory aspects involved in human subject research. Students will gain understanding of the history that has shaped the rules that today govern research with human subjects, as well as be introduced to issues that researchers in the 21st century face. Students will become familiar with U.S. regulations that govern human subject research and the protection systems that are created as a part of those regulations. Issues related to research with a variety of vulnerable populations will also be discussed.

Students will be expected to come prepared to explore and discuss the variety of critical issues researchers face when they hope to conduct human subject research. They will be able to demonstrate an understanding of the key elements of informed consent documents, including statements required by U.S. regulations. Class activities related to the readings and CITI modules will permit students to gain an understanding of these topics while also completing the NSU required CITI program.

CVR 8220—Epidemiology

This course provides a study of the basic principles of epidemiology with emphasis on the application of epidemiology to clinical practice.

DRAFT 10/8/21

NSU Florida

HEALTH PROFESSIONS DIVISION

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