

Cardiovascular Perfusion:

- [Michael Smith, Program Director](#)
- [Thomas Martin, Chair, Associate Professor of Biomedical Sciences](#)
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Michael J. Smith, PhD.

Professor of Cardiovascular Perfusion

Program Director of Cardiovascular Perfusion

Michael.Smith@qu.edu

BS, MS, PhD, University of Waterloo, Ontario, Canada

I am the director and professor of Cardiovascular Perfusion and a graduate of the University of Waterloo, in Waterloo, Ontario, Canada. I am a board-certified clinical perfusionist, licensed in the State of Connecticut. I have been the director of the program at Quinnipiac, which is part of the Biomedical Sciences Department, since August of 1990. I coordinate student clinical placement in hospitals across the country, and teach PR 506 Pharmacologic Intervention, and PR 516, Physiologic Monitoring.

Research projects, in collaboration with faculty at the Yale School of Medicine, and Yale-New Haven Hospital, have focused on the mechanisms of systemic inflammatory response syndrome (SIRS), and investigating the efficacy of pharmaceutical compounds being developed to attenuate the response during cardiopulmonary bypass. There have also been investigations into the application of compounds to block steps in the complement cascade which occurs when blood contacts foreign surfaces, such as plastic tubing during extracorporeal circulation.



Thomas Martin, PhD.

Associate Professor of Biomedical Sciences

Chair of Biomedical Sciences

Program Director Biomedical Sciences

Program Director Microbiology and Immunology

Thomas.Martin@quinnipiac.edu

BS, MHS, Quinnipiac University, Hamden, CT

PhD, University of Connecticut, Storrs, CT

I earned my undergraduate and master degrees from Quinnipiac University in the fields of Health and Science Studies and Medical Laboratory Sciences and received my Ph.D in Pathobiology from the University of Connecticut. While my graduate research focused mainly on animal disease modeling for Clostridium pathogens, my interest in human physiology has been my main passion and primary area of teaching and research since joining the Department of Biomedical Sciences in 2010. I currently teach a variety of undergraduate and graduate courses that focus on various aspects of human health, disease and performance. My primary teaching responsibilities are Physiology of Human Performance I and II (BMS 300 AND 301), Medical Terminology (PA 502), Human Physiology (PA 515), and Disease Mechanisms (PA 535).

My current research focuses on investigating the effects of fatigue on the human body with a primary emphasis on overtraining and endurance running. I also work with a number of the University's Athletic teams assessing sports performance and injury prevention strategies. I have worked with over 40 students on various research projects from the Biomedical Sciences and Physical Therapy Departments as well as the Frank H. Netter MD School of Medicine and emphasis collaboration and interdisciplinary research practices. Many of my research students have presented their work at the American College of Sports Medicine regional and national meetings.

As Department Chair and Program Director of the Biomedical Sciences and Microbiology & Immunology programs I strive to create impactful, hands-on opportunities for our students in both teaching and research. I emphasize a student-centered learning environment as well as a strong sense of community.



Thomas Brady, PhD.

Professor of Biomedical Sciences

Program Director of BMS and Microbiology/Immunology

Thomas.Brady@quinnipiac.edu

BA, BS, St Marys College

**MS, Long Island University Southampton, Southampton,
NY**

PhD, University of Connecticut, Storrs, CT

I am a Professor of Biomedical Sciences, graduated with a Bachelor of Science degree from St. Mary's College (KS), a Master of Science degree in Medical Biology from Long Island University, and a Doctor of Philosophy degree in Pathobiology from the University of Connecticut. I have taught at Quinnipiac for the past 38 years, and regularly teach courses in pathophysiology (BMS 318), disease mechanisms (PA 535), toxicology (BMS 325 and BMS 552), the human organism (BMS 117) and human health and disease (BMS 162).

I served as the Chairman of the Biomedical Sciences Department for 15 years, ending my stint in June 2018. My general research interests include: human disease mechanisms, biochemical toxicology, evolution, astrobiology, dog behavior/evolution and, Nature as an Art Form.