

Biomedical Communications

MScBMC



Clear and compelling illustrations, animations, and simulations are vital to discovery and communication in science, medicine, and health. As a cohort-based program, students in the professional Master of Science in Biomedical Communications (MScBMC) program engage in the creation and evaluation of a range of visual tools, including medical illustration, media and user experience design, animation, and virtual simulations. The MScBMC program is unique in Canada and one of five accredited Master's level medical visualization programs in the world. The program's state-of-the-art facilities are principally based on the University of Toronto Mississauga campus.



Students in this program complete 8.5 FCE*.

Year One

- MSC1001Y, Human Anatomy, 1.0 FCE
- MSC2001Y, Visual Representation of Medical Knowledge, 1.0 FCE
- MSC2003Y, BMC Technology, 1.0 FCE
- MSC2004H, Research Methods, 0.5 FCE
- MSC2009H, Ethics and Professionalism in BMC, 0.5 FCE
- MSC2020H, Visual Representation of Biomolecular Structure & Function, 0.5 FCE
- MSC2023H, Information Visualization, 0.5 FCE

Year Two

- MSC2002H, Sequential Medical Communication, 0.5 FCE
- MSC2012H, Neuroanatomy, 0.5 FCE
- MSC2018H, Pathology, 0.5 FCE
- MSC2025Y, Master's Research Project for BMC

In addition to the courses above, students are required to take 4 electives toward completion of a capstone project:

- MSC2015H, Cinematic Design and Preproduction, 0.5 FCE
- MSC2017H, Visualization Technology, 0.5 FCE
- MSC2006H, Advanced Media Design Technologies, 0.5 FCE
- MSC2008H, Community-Centred Design, 0.5 FCE
- MSC2011H, Special Topics in Biomedical Communications, 0.5
- MSC2022H, Graphic Medicine Seminar, 0.5 FCE,
- MSC2013Y, Masters Research Evaluation Paper, 1.0 FCE,
- Any other appropriate graduate course(s)

Successful students typically complete this program within 2 years.

1 Full course equivalent. A typical 0.5 FCE is over one term (13 weeks), meeting 1-2 times per week. A typical 1.0 FCE is over two terms (26 weeks), meeting 1-2 times per week



Potential career paths

MScBMC graduates take on diverse leadership roles in industry, including:

- [Animators](#) in the pharmaceutical and biotechnology industries
- [Lead illustrators](#) in textbook and journal prepress companies
- [User experience designers](#) in mobile health application development
- [Communications specialists](#) for non-profit health organizations
- [Developers](#) in the educational gaming industry
- [Creative directors](#) in medical advertising
- [Creators of medical demonstrative evidence](#) for the courtroom
- [Hospital-based designers](#) of educational health communication materials
- [Researchers and educators](#) in higher education

Application Deadline

Fall 2024 Admissions

Deadline: December 18, 2023



How to Apply:

bmc.med.utoronto.ca

Email: bmc.info@utoronto.ca

Alumni profile

Shehryar Saharan, MScBMC Graduated 2022

My name is Shehryar (Shay) Saharan and I am proud to be a recent graduate of the Master of Science in Biomedical Communication (MScBMC) program at the University of Toronto.



Throughout my graduate studies, I had the opportunity to refine my skills in visual media, design, and storytelling, which led me to establish an award-winning scientific visualization and design studio, [ss design studio Inc.](#) Since graduating, I have had the privilege of collaborating with renowned organizations such as Digizyme, Boston Scientific, and Switch Health to communicate complex science in a compelling and accessible manner. In addition to my entrepreneurial ventures, I hold a contractually limited term appointment as assistant professor in the MScBMC program, and I have embarked on a PhD journey to further research in scientific visualization as applied to engineering education.

For prospective students who possess a keen interest in the convergence of science, design, and visual art, I wholeheartedly endorse the MScBMC program. Although it demands a high level of dedication, commitment and initiative, the rewards are immeasurable. The program boasts an exceptional faculty who not only serve as remarkable mentors, but who also guide students to delve deep into their skills, fostering exploration and mastery. Through this program, aspiring biomedical communication specialists are equipped with the necessary tools to excel in their future roles, all while cultivating a sense of passion and purpose for their craft.