Master of Science in Rehabilitation Science

FOCUS IN SURGICAL DESIGN & SIMULATION

For general inquiries about the SDS program, please contact:

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Program provided with support from:

UNIVERSITY OF ALBERTA
DEPARTMENT OF ART & DESIGN

UNIVERSITY OF ALBERTA
FACULTY OF REHABILITATION MEDICINE
LEARNING ENVIRONMENT
The Faculty of Rehabilitation Medicine offers students in the Master of Science in Rehabilitation Science program the option to do their research in Surgical Design and Simulation (SDS) with support from the Institute for Reconstructive Sciences in Medicine (iRSM) and the Department of Art and Design, Faculty of Arts at the University of Alberta.

iRSM is an internationally recognized interdisciplinary environment located in Edmonton, Alberta and is a collaborative initiative of the University of Alberta, Alberta Health Services and Covenant Health. Through its clinical facility and research laboratories, iRSM integrates care and research in reconstruction and rehabilitation of the head and neck and creates a unique setting for the Master of Science program. The Faculty of Rehabilitation Medicine’s MSc in Rehabilitation Science provides an excellent vehicle to support opportunities in SDS.

SURGICAL DESIGN AND SIMULATION
The MSc Program typically extends over approximately two years of study. Supervised independent study in anatomy, industrial design, advanced digital technologies and medical modelling will be provided to support the opportunity in SDS.

CAREER OPPORTUNITIES
There is a strong emerging need to develop highly qualified and skilled personnel who bring together knowledge and skills in advanced digital technologies for SDS together with a well developed research base. The opportunity in SDS is designed to provide a deeper understanding of an interdisciplinary and integrative clinical treatment environment between various specialties including head and neck surgery, cardiac surgery, orthopedics, neurosurgery, diagnostic imaging, biomedical engineering and many other disciplines. Graduates will work as part of a surgically-based team to apply advanced digital technology to SDS and contribute significantly to the work of a research team.

ENTRANCE REQUIREMENTS
Applicants interested in pursuing opportunities in SDS will ideally have a Bachelor’s degree in art, design, science or related field from a recognized post-secondary institution. The applicants should demonstrate clinical interest through their studies or work experience. A practicum may be offered at iRSM to interested candidates before entering the program.

The minimum admission requirements and application for graduate admission to the MSc Rehabilitation Science program can be found at: rehabilitation.ualberta.ca

Applicants considered for admission will be invited for an interview.