

# Extreme Medicine, Graduate Certificate (Boston)

## Overview

The Graduate Certificate in Extreme Medicine is an interprofessional program designed to prepare healthcare professionals to provide medical services in austere conditions. The core didactic courses are delivered online and provide foundational instruction in human factors, crisis resource management, efficiency of highly skilled teams, and theory and ethics of care in humanitarian crises.

In addition to the online courses, students take one or more on-ground experiential courses offered in an executive format. Experiential courses enable students to complete intensive, hands-on training and apply the principles of extreme medicine. This program is offered in collaboration with World Extreme Medicine (WEM (<https://worldextrememedicine.com/>)).

Please visit Bouvé College Learning Outcomes (<https://bouve.northeastern.edu/academics/learning-outcomes/>) for the specific student learning outcomes for this program.

## Program Requirements

### Core Requirements

A grade of B– or higher is required in each of the following:

Code	Title	Hours
Complete a minimum of 6 semester hours from the following courses. Students may choose additional courses from the list below and/or an optional experiential elective to meet the minimum 12 SH program requirement.		6-9
MSCI 5001	Human Factors and Situational Awareness	
MSCI 5002	Crisis Resource Management and Case Studies	
MSCI 5003	Humanitarian Aid Practice and Principles	
MSCI 5004	Humanitarian and Disaster Response Ethics	
MSCI 5005	Care During Conflict	

### Experiential Coursework

Code	Title	Hours
<b>Required Experiential Courses</b>		
MSCI 5403 and MSCI 5400	Expedition and Wilderness Medicine Experience and Experiential Reflections: Bridging Theory and Experience	3
<b>Optional Experiential Electives</b>		
The following experiential courses are optional , but each requires one additional SH of MSCI 5400.		
MSCI 5401 and MSCI 5400	Human Factors and Situational Awareness Experience and Experiential Reflections: Bridging Theory and Experience <sup>1</sup>	
MSCI 5402 and MSCI 5400	Expedition and Cold Weather Medicine Experience and Experiential Reflections: Bridging Theory and Experience <sup>1</sup>	
MSCI 5405 and MSCI 5400	Humanitarian Medicine Experience and Experiential Reflections: Bridging Theory and Experience <sup>1</sup>	

<sup>1</sup> Courses are offered in partnership with World Extreme Medicine (WEM (<https://worldextrememedicine.com/>)). Additional expenses may be associated with the experience courses.  
One semester hour of Experiential Reflections: Bridging Theory and Experience (MSCI 5400) must be completed for each experiential course.  
Some optional experiential courses may be restricted to licensed or credentialed professionals or to students in the last two years of study in a medical or allied health professional program.  
Offered on ground in a 4-day experiential format.

After completion of the 12 required semester hours, students are eligible to register for any of the remaining courses using Bouvé College's Special Student (<https://registrar.northeastern.edu/article/non-matriculated-registration/>) registration process.

## Program Credit/GPA Requirements

12 total semester hours required  
Minimum 3.000 GPA required