Healthcare Simulation

Master of Science in Healthcare Simulation

Degree Offered: M.S.
Program Director: Michelle Brown, PhD
Phone: (205) 934-9617
Email: michellebrown@uab.edu
Website: www.uab.edu/sim

Program Overview

The Master of Science in Healthcare Simulation is designed to prepare you with leadership and quality improvement skills in healthcare simulation in order to improve patient safety, increase communication effectiveness, refine teamwork, and enhance care delivery. By developing expertise in healthcare simulation, you will be equipped with a unique skill set to impact patient outcomes in your organization through the innovation of simulation. We believe that interprofessional collaboration is fundamental in being a successful healthcare simulationist.

The curriculum is taught by faculty with a variety of clinical and administrative experiences. Fellow classmates will be from diverse backgrounds who are interested in working collaboratively to improve patient care with simulation. Throughout the program, you will be challenged to think creatively and have opportunities to integrate simulation into your current practice.

Admission Requirements

Admission requirements include eligibility for admission to the UAB Graduate School. Experience in the healthcare industry or a related field is preferred. Applicants must have a bachelor’s degree (or higher) from an accredited college or university or from a recognized university abroad, with a minimum GPA of 3.0 in coursework.

Additional requirements include submission of a personal statement regarding interest in the program, two letters of recommendation.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Fulfilled By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deadline for Entry Term(s):</td>
<td>Fall, Spring, Summer</td>
</tr>
<tr>
<td>Deadline for All Application Materials to be in the Graduate School Office:</td>
<td>August 1st, December 1st, May 1st</td>
</tr>
<tr>
<td>Entrance Tests:</td>
<td>The Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE) for international applicants from non-English speaking countries</td>
</tr>
<tr>
<td>Number of Recommendation Letters Required:</td>
<td>Two</td>
</tr>
<tr>
<td>Comments:</td>
<td>Transcript evaluation by WES is required for applicants with foreign university degrees</td>
</tr>
</tbody>
</table>

Contact Information

For detailed information, contact the Department of Health Services Administration, Master of Science in Healthcare Simulation Program, UAB School of Health Professions, SHPB 590A. Physical address: 1716 9th Avenue South. Mailing address: 1716 9th Avenue South, Birmingham, AL 35294.

Phone 205-934-3509
Fax 205-975-6608
E-mail SimMasters@uab.edu

Healthcare Simulation Graduate Certificate

The Graduate Certificate in Healthcare Simulation meets the growing demand of healthcare simulation educators and leaders. Graduates will be able to design and implement simulations aimed at improving teamwork, communication, and clinical skills according to evidence-based practices.

Our program is delivered online with on-campus visit for 3 1/2 days in September. It is comprised of 15 credits, completed over three consecutive semesters.

Credentials Conferred

The Graduate Certificate in Healthcare Simulation is awarded by the University of Alabama at Birmingham.

Length of Study

The certificate requires 15 credits, which can be completed in 3 semesters.
Program Entrance Date
Fall semester -- deadline for all application materials to be in the Graduate School Office: August 1.

TYPICAL HEALTHCARE SIMULATION CURRICULUM

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCS 575. Introduction to Healthcare Simulation for Quality and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HCS 610. Instructional Design in Simulation</td>
<td>2</td>
</tr>
<tr>
<td>HCS 625. Simulation Methodology</td>
<td>3</td>
</tr>
<tr>
<td>HCS 626. Healthcare Simulation Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>HCS 620. Current Trends in Simulation</td>
<td>2</td>
</tr>
<tr>
<td>HCS 630. Research in Simulation</td>
<td>1</td>
</tr>
<tr>
<td>HCS 635. Advanced Debriefing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Courses

HCS 575. Introduction to Healthcare Simulation for Quality and Safety. 3 Hours.
Introductory course on origins and current applications for healthcare simulation; overview of simulation methodologies and application in education, training, quality improvement, and patient safety.

HCS 610. Instructional Design in Simulation. 2 Hours.
Instructional Design in Simulation applies the foundational concepts in the field of instructional design to the growing field of healthcare simulation. This course focuses on the processes of analysis, design, development, implementation, and evaluation as they relate to developing quality simulation learning experiences.

Survey of emerging technologies as well as new applications and best practices in the delivery of simulation.

HCS 625. Simulation Methodology. 3 Hours.
Intensive focus on the development of simulation sequences to meet institutional priorities; emphasis on simulation case development, including debriefing and assessment strategies; teamwork and interprofessional competencies.

HCS 626. Healthcare Simulation Laboratory. 1 Hour.
Participation in simulations; application of research-based strategies for designing and implementing simulation scenarios; debriefing and developing solutions to common issues in simulation.

HCS 630. Research in Simulation. 1 Hour.
Introduction to simulation-focused research and present an overview of the current simulation evidence base.

HCS 635. Advanced Debriefing. 3 Hours.
In-depth review and application of current debriefing models in the field of simulation. Emphasis on choosing effective debriefing models for various modalities of simulation.

Prerequisites: HCS 625 [Min Grade: C]

HCS 640. Project Management: Leading Successful Healthcare Initiatives. 3 Hours.
Techniques for planning, scheduling, controlling, resource allocation, and performance measurement activities required for successfully completing a project.