HEALTH TECHNOLOGY, MS

for the Master of Science in Health Technology

Department Head: Kim Graber
Director of Graduate Studies: John Kosciulek
Graduate Office: Julie Jenkins
Graduate Office Address: 906 South Goodwin Ave, 112 Freer Hall
MC-052, Urbana, IL 61801
Graduate Phone: (217) 333-1083
Graduate Email: jjenkns@illinois.edu
Department Website: http://kch.illinois.edu/
Program Website: https://ahs.illinois.edu/ht-overview

The MS in Health Technology is designed to educate the next generation of Health Technology Professionals in the development, testing, and use of new consumer-facing technologies that promote health, rehabilitation, mitigate disability, and improve independence and quality of life. This includes bringing end-users (e.g., individuals with chronic conditions, older adults, persons with disabilities), industry professionals, and applied health professionals together with Illinois students and faculty in a multidisciplinary and inter-generational environment to identify existing problems and develop technologies to solve them.

Graduate Degree Programs in Applied Health Sciences

Health Technology, MS (p. 1)

Admission

Students should have an undergraduate degree in a health or science related field or engineering. Applicants should have a minimum grade point average of 3.00 (A = 4.00) or equivalent for the last two years of undergraduate study and show evidence of strong quantitative skills and of serious interest in health technology through their personal statement. Students with less than a 3.0 GPA may be considered for a limited status admission.

Program prerequisites* or equivalents include:

Introduction to Computer Science (CS 125 or 105)
Introduction to Statistics (CHLH 244)
Introduction to Psychology (PSYC 100)
Intro to Public Health (CHLH 100)
Linear Algebra (MATH 125, or 225, 410, 415)
Research Methods (CHLH 201)

*Promising students might be admitted with a contingency that they complete the prerequisites before the start of the first semester.

All applicants must submit GRE scores.

All applicants whose native language is not English must submit a minimum TOEFL score of 103 (iBT), 254 (CBT), or 611 (PBT); or minimum International English Language Testing System (IELTS) academic exam scores of 7.0 overall and 6.0 in all subsections. Applicants may be exempt from the TOEFL if certain criteria are met. Applicants with lesser scores may still apply. Limited status is granted for lesser scores and requires enrollment in English as a Second Language (ESL) courses based on an ESL Placement Test (EPT) taken upon arrival to campus.

Financial Aid

Students in the MS in Health Technology program are not eligible for tuition-waiver generating assistantships. Students may apply for scholarships available through the University.

for the Master of Science in Health Technology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HT 501</td>
<td>Understanding Users of Health Technology</td>
<td>4</td>
</tr>
<tr>
<td>HT 502</td>
<td>Human Factors Methods for Health Technology</td>
<td>4</td>
</tr>
<tr>
<td>HT 503</td>
<td>Hardware Engineering for Health Technology</td>
<td>4</td>
</tr>
<tr>
<td>HT 504</td>
<td>Software Engineering for Health Technology</td>
<td>4</td>
</tr>
<tr>
<td>HT 510</td>
<td>Health Technology Capstone Orientation</td>
<td>1</td>
</tr>
<tr>
<td>HT 511</td>
<td>Health Technology Capstone Development</td>
<td>3</td>
</tr>
<tr>
<td>HT 512</td>
<td>Health Technology Capstone Implementation</td>
<td>4</td>
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</tbody>
</table>

Total Core Required Hours: 24

Health Technology Elective List

12 hours chosen from:

BIOE 414 Biomedical Instrumentation 3
BIOE 415 Biomedical Instrumentation Lab 2
BIOE 416 Biosensors 3
BIOE 507 Advanced Bioinstrumentation 4
BIOE 598 Special Topics (JI: Finite Element Methods in Biomed) 1 to 4
BIOE 598 Special Topics (NIE: Surgical Technologies) 1 to 4
CHLH 421 Health Data Analysis 3 or 4
CHLH 470 Technology, Health, and Aging 3 or 4
CHLH 494 Special Topics 1 to 4
CS 440 Artificial Intelligence 3 or 4
CS 465 User Interface Design 3 or 4
CS 565 Human-Computer Interaction 4
KIN 474 Tech-Driven Health Intervention 3 or 4
ECE 422 Computer Security I 4
ECE 437 Sensors and Instrumentation 3
ECE 470 Introduction to Robotics 4
ECE 498 Special Topics in ECE 0 to 4
IE 445 Human Performance and Cognition in Context 3 or 4
IE 528 Computing for Data Analytics 4
IE 529 Stats of Big Data & Clustering 4
IE 531 Algorithms for Data Analytics 4
IE 532 Analysis of Network Data 4
IE 533 Big Graphs and Social Networks 4
IE 534 Deep Learning 4
IE 546 Human Factors in Health Care Engineering Systems 4
ME 481 Whole-Body Musculoskel Biomech 3 or 4
RST 429 Contemporary Issues in Recreation, Sport and Tourism 4
RST 441 Community Planning and Engagement 3 or 4
RST 501 Concepts & Applications in Recreation, Sport & Tourism 4

Information listed in this catalog is current as of 06/2020
### RST 502
Critical Issues Recreation Mgt 4

### RST 520
Critical Issues Sport Mgt 4

### RST 530
Critical Issues Tourism Mgt 4

### RST 586
Health and Leisure in Recreation, Sport and Tourism 4

### SHS 473
Augmentative & Alt Comm 2 to 4

### SHS 553
Hearing Aids and Amplification 4

### SHS 555
Comm Lang Probs Hear Impaired 4

### SHS 556
Sens Prosth Devices Hear Loss 4

### SHS 580
Cochlear Implants 4

**Total Required Hours** 36

### Other Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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<tbody>
<tr>
<td>Other requirements may overlap</td>
<td></td>
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<tr>
<td>Minimum Hours Required within the Unit at the 500 level:</td>
<td>8</td>
</tr>
<tr>
<td>Minimum 500-level Hours Required Overall:</td>
<td>12</td>
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<tr>
<td>Minimum GPA:</td>
<td>3.0</td>
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