INFORMATION TECHNOLOGY (M.S.)

https://manchester.unh.edu/program/ms/information-technology

Description

The MS IT program is a professional graduate program in the applied and fast-changing field of Information Technology. The program prepares students for a professional IT or computing-related career and for advanced studies in a computing discipline. Offered at the University’s urban campus in Manchester, a city that embraces cultural diversity, the program welcomes students from all over the world. With classes scheduled during the day and in the evening in fall, spring, and summer terms, the program gives students the flexibility to enroll full-or part-time. For diligent undergraduate students, this program is also available as an Accelerated Master’s Program.

Tools, platforms, and programming languages used in IT industry evolve rapidly. Capitalizing on the campus location in New Hampshire’s largest city and the state’s corporate and financial center, the program requires an internship experience. With support from many business, technology, and non-profit organizations who sponsor internships, students integrate authentic professional experiences in their academic coursework early in the program. The internship course may be repeated for a maximum of six credits.

Requirements

Degree Requirements

The M.S. IT program is 33 credits and has two options for completion:

- Master’s Project Option: 10 courses (30 credits) and Master’s Project course (3 credits)
- Master’s Thesis Option: 9 courses (27 credits) and Master’s Thesis (6 credits)

Both options require completion of:

- Five core IT courses (15 credits)
- Two IT integration courses, including an Internship course (6 credits)

The remaining coursework (9 credits in the Master’s Project Option and 6 credits in the Master’s Thesis Option) are elective courses. These courses can be graduate computing courses (COMP 800-level courses) or can be selected from other graduate programs at UNH.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 805</td>
<td>Full Stack Development</td>
<td>3</td>
</tr>
<tr>
<td>COMP 815</td>
<td>Information Security</td>
<td>3</td>
</tr>
<tr>
<td>COMP 820</td>
<td>Database Systems and Technologies</td>
<td>3</td>
</tr>
<tr>
<td>COMP 830</td>
<td>Object-Oriented Software Development</td>
<td>3</td>
</tr>
<tr>
<td>COMP 835</td>
<td>Secure Networking Technologies</td>
<td>3</td>
</tr>
<tr>
<td>COMP 851</td>
<td>System Integration and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMP 890</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>Elective Courses</td>
<td></td>
<td>6 or 9</td>
</tr>
</tbody>
</table>

Elective courses can be in various disciplines, including computer science (CS), computing (COMP), business and administration (ADMN), analytics and data science (DATA), and more.

1 Students are required to enroll in at least one credit of the COMP 890 Internship course upon successful completion of nine credits in their program of study. The Internship course may be repeated for a maximum of 6 credits.
2 Depending on the culminating experience option (project or thesis), there are two or three elective courses required in the program.
3 The project is integrative in nature and requires IT research.