



SCHOOLS OF ARTS AND SCIENCES & ENGINEERING

Engineering Psychology Human Factors Engineering

ENP 109 Medical Fundamentals

Tuesday, 6:00-9:00 p.m.

Instructor: Michael Wiklund, Professor of the Practice

This course primarily serves the needs of students and professionals who already engaged in or wishing to move into the medical industry and focus on technology development. They will gain a working knowledge of basic human anatomy, major medical conditions (i.e., the "great diseases"), and the related medical technologies and care delivery processes. The knowledge can be essential to the discovery of new product opportunities and matching technologies to both the clinicians' and patients' needs, suggesting that gaining it early and in a comprehensive manner would be advantageous. When working in industry, such knowledge can accumulate slowly over many years through occasional opportunities to visit clinical environments and observe medical procedures. This course accelerates the process through classroom instruction, direct exposure to pertinent technologies, and technology assessment and design assignments.

There is no need to be a Tufts student to take the course. Enrollment is open to individuals who have an undergraduate degree. Learn more about this option at:

<https://asegrad.tufts.edu/academics/gcap>

Location: Tufts University Medford Campus and field trips to multiple healthcare locations in the Metropolitan Boston area.

The deadline for Spring Term enrollment is January 10, 2018.

Michael Wiklund, Professor of the Practice



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Michael Wiklund serves as general manager of the human factors engineering (HFE) practice at UL (Underwriters Laboratories). Previously, he ran his own HFE consulting firm – Wiklund Research & Design – that UL acquired in late 2012. He has a total of over 30 years of experience in human factors engineering, much of which has focused on medical technology development; optimizing hardware and software users interfaces as well as accompanying learning tools. He is a certified human factors specialist and licensed professional engineer. He is author, co-author, or editor of several books on human factors, including one titled *Usability Testing of Medical Devices* and another titled *Handbook of Human Factors in Medical Device Design*. He is one of the primary authors of today's most pertinent standards and guidelines on human factors engineering of medical devices: AAMI HE75 and IEC 62366. He holds multiple user interface design patents. For 30 years, Michael has taught software user interface design at Tufts University. Read more about Michael Wiklund's work at: <http://www.wiklundrd.com/>

For more info, contact:

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