



Course offering for master's programs in Bioeconomy, Biology, Information Systems (IS), International Business & Management (IBE), and Management (MGT)

Digital Transformation of the Healthcare Industry

(Module 1909-400 & 5304-460)

Contents: Advances in digital technologies offer great potential to improve care delivery and patient outcomes. By using digital technologies, healthcare providers are currently reshaping their processes for the prevention, diagnosis, and treatment of diseases. This digital transformation concerns all healthcare sector stakeholders and has major implications for individuals, organizations, societies, and humankind. Against this backdrop, the course examines how digital technologies and mobile apps impact care delivery in selected domains of the healthcare industry. We will be focusing on, for instance, healthy nutrition, enhanced physical activity, and weight loss.

Prerequisites for attendance: No specific knowledge of digital technologies is required.

Objectives: Students understand how digital technologies and mobile apps impact care delivery in a specific domain. Using a systematic review, students can identify, describe, integrate, and critically appraise the empirical evidence for the usefulness of digital interventions. Students can effectively communicate their findings to non-experts in the field, namely, students from different study backgrounds.

Format: The course includes lectures (4 sessions) and guided tutorials (7 sessions). Participants can choose from a range of proposed topics and suggest further topics. Students will work in groups to deliver a presentation to the class. Depending on the chosen module, students can additionally submit a seminar paper afterward (700 words, see below).

ECTS and assignments:

- Bioeconomy: 6.0 credits [5304-460; oral presentation]
 OR 7.5 credits [1909-400; oral presentation (50%), seminar paper (50%)]
- Biology: 7.5 credits [1909-400; oral presentation (50%), seminar paper (50%)]
- IBE, IS, MGT: 6.0 credits [5304-460; oral presentation]

Instructors:

- Priv.-Doz. Dr. Jörg Leukel (Institute of Information Systems)
- Prof. Dr. Julia Fritz-Steuber (Institute of Biology)

Time & place: Mondays, 12:15 – 13:45, S 11 (Garbenstr. 17)

Key dates:

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| – Oct 12/19/26, Nov 2: | Lectures |
| – Nov 9/17/23, Dec 7/14/21, Jan 11: | Guided tutorials |
| – Nov 30: | Intermediate presentations by students |
| – Jan 22 (Fri) & 26 (Mon): | Final presentations by students |
| – Mar 15: | Submission of papers (module 1909-400 only) |

ILIAS course: https://ilias.uni-hohenheim.de/goto.php?target=crs_1832283&client_id=UHOH