**mtl115**  
**Design of Technology Enhanced Learning (TEL) Environments**

| Course Content and Learning Objectives | This course will give an overview of the use of digital media in a variety of educational settings, designed to identify properties, strengths, and weaknesses of digital media in different learning contexts. The basic psychological processes of perception, understanding, and learning with educational technologies will be introduced, with a focus on multimedia and instructional design for online learning systems, such as learning management systems or stand-alone learning objects. Hands-on experience with several multimedia applications will be provided. Topics will include collaborative learning technologies, open educational resources, the impact of multimedia on learning outcomes, methods of multimedia evaluation, quality assurance, and project management of TEL initiatives.  
**Learning Objectives:**  
At the end of this course, students should be able to:  
1. Define learning with multimedia and open educational resources (OER).  
2. Describe the development of media in the history of technology enhanced learning (TEL) as a function of interaction and independence.  
3. Identify the basic psychological processes involved in TEL.  
4. Outline the basics of sensation and perception in processing multiple media.  
5. Explain the rationale of design principles for TEL.  
6. Identify the opportunities for learning and teaching that TEL affords.  
7. Apply an instrument to evaluate the quality of multimedia (open) educational resources.  
8. Develop a proposal for a TEL project. |
| Teaching and Learning Forms | Internet-based discussion forums, group activities, learning activities, webinars, self-study |
| Prerequisites | Proficiency in internet and Microsoft Office use; self-organization skills; mtl100, mtl105 |
| Course Use/Reuse | Required. Course module is currently not in use by other programs, but could potentially be adopted by other programs such as the MBA program. |
| Requirements for Awarding ECTS Credits | Students must successfully complete learning activities (PASS/FAIL) throughout the course, as well as regularly participate in discussion forums and group activities. ECTS points will be awarded upon successful completion of the portfolio, which includes the results of all course learning activities (e.g., brief essay, case study, expert
| ECTS Points and Grading | 6 ECTS  
Grading Scale: 1,0 / 1,3 / 1,7 / 2,0 / 2,3 / 2,7 / 3,0 / 3,3 / 3,7 / 4,0 / 5,0  
Learning activities will be graded as PASS/FAIL. At mid-semester, students will receive a progress report regarding their status in class, along with feedback for improvement. |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Frequency/Cycle</td>
<td>Minimum once per semester</td>
</tr>
</tbody>
</table>
| Workload               | 180 hours (self-study: approx. 80 hours; learning activities: approx. 80 hours; participation: approx. 20 hours)  
6 credit points per course |
| Course Length          | 15 weeks                                         |
| Other Information      |                                                  |