

**Business Consulting Master**

<b>Title</b>	<b>Adapting Standardsoftware with ABAP (Advanced)</b>			
<b>Lecturer</b>	John Daniel Castine			
<b>Schedule</b>	2 <sup>nd</sup> Semester	4 SWS	6 credits	Elective Subject
<b>Workload</b>	Total 180 h	Presence 60 h	Preparation and after-work 100 h	Examination and preparation 20 h
<b>Level</b>	Computer Science: high Business Administration: medium Basic Skills: medium Key Qualifications: medium			
<b>Prerequisites</b>	Basic understanding of the ABAP programming language			
<b>Learning Objectives</b>	<ul style="list-style-type: none"> <li>• Gain an advanced understanding of software development in an ERP environment and the interaction between the ERP system and surrounding systems using the example of the SAP System</li> <li>• Understanding Object Oriented Software Development in ABAP ("ABAP OO")</li> <li>• Understanding the development of Web-based applications with SAP Business Server Pages (BSP) and WebDynpro for ABAP</li> <li>• Understanding multiple ways of integrating an SAP system with an external Java-based system</li> </ul>			
<b>Content</b>	<ul style="list-style-type: none"> <li>• Software development within the SAP System using ABAP with a strong focus on ABAP OO</li> <li>• Advanced ABAP techniques such as: <ul style="list-style-type: none"> <li>▪ Open SQL revisited</li> <li>▪ Regular Expressions in ABAP</li> <li>▪ File access from the ABAP Application Server and Presentation Server</li> <li>▪ Integrating SAP ABAP Applications with external Applications such as MS Excel</li> </ul> </li> <li>• Building Web-based applications within an SAP Environment using Business Server Pages (BSP) and WebDynpro for ABAP</li> <li>• Connecting the SAP System to a remote Java System by utilizing the SAP Java Connector (SAP JCo) and the Java EE Connector Architecture (JCA)</li> </ul>			
<b>Recommended Textbooks</b>	<ul style="list-style-type: none"> <li>• Keller H., Krüger S.: ABAP Objects: ABAP Programming in SAP NetWeaver, Galileo Press 2007</li> <li>• Ofenloch, D., Schwaiger, R.: Getting Started With Web Dynpro For ABAP, Galileo Press 2009</li> <li>• Kessler, K.: Java Programming With SAP NetWeaver, Galileo Press 2008</li> </ul>			
<b>Teaching Methods</b>	Lecture Exercises			
<b>Grading</b>	<ul style="list-style-type: none"> <li>• Written examination</li> </ul>			