

<b>Georg-August-Universität Göttingen</b>		6 C
<b>Module M.MED.0003: Event data analysis</b>		4 WLH
<b>Learning outcome, core skills:</b> <b>Inhalt:</b> Kaplan-Meier estimator of survival functions, confidence intervals for Kaplan-Meier curves, hypothesis tests comparing survival curves, Cox proportional hazards model, parametric alternatives to the Cox proportional hazards model, counting processes, diagnostic methods for proportional hazards, frailty models, multivariate survival models, models for recurrent events  <b>Qualifikationsziele:</b> The students <ul style="list-style-type: none"> <li>• learn about the foundations and general principles of event data analysis</li> <li>• get familiar with standard and more advanced methods for event data analysis</li> <li>• learn how to implement these methods in statistical software using appropriate numerical procedures.</li> </ul>		<b>Workload:</b> Attendance time: 56 h Self-study time: 124 h
<b>Courses:</b> <b>1. Ereigniszeitanalyse (Lecture)</b> <b>2. Ereigniszeitanalyse (Exercise)</b>		2 WLH 2 WLH
<b>Examination: Written examination (90 minutes) or oral examination (approx. 20 minutes)</b> <b>Examination prerequisites:</b> Achievement of at least 50% of the exercise points <b>Examination requirements:</b> The students demonstrate their general understanding of statistical models and data analysis techniques for event data analysis. For a given problem they can critically assess the advantages and disadvantages of various models. Furthermore, they can fit an appropriate model using statistical software and interpret the results correctly for a given problem. The exam covers contents of both the lecture and the exercise class.		6 C
<b>Admission requirements:</b> keine	<b>Recommended previous knowledge:</b> none	
<b>Language:</b> English	<b>Person responsible for module:</b> Prof. Dr. Tim Friede	
<b>Course frequency:</b> once a year	<b>Duration:</b> 1 semester[s]	
<b>Number of repeat examinations permitted:</b> twice	<b>Recommended semester:</b> 2 - 3	
<b>Maximum number of students:</b> not limited		

**Additional notes and regulations:**

The actual examination type will be published at the beginning of the semester.