

# Module Card

Master Resource Efficiency in  
Architecture and Planning  
HCU Hamburg

Module Number	Module Name	Type (C/CE/E)	Semester (proposed)	Module Coordinator
<b>REAP-M-Mod-102</b>	<b>Research Methods and Statistics</b>	<b>C</b>	<b>1.</b>	<b>Prof. Irene Peters</b>

Subject Area	Duration
Fundamentals and Methods	1 semester

CP (according to ECTS)	Contact Hours/Week (SWS)	Self-study
5 CP (= 150 h workload)	3 (= 31,5 h contact time)	118,5 h

## Objectives and Contents

Objective of Qualification (competencies) <ul style="list-style-type: none"> <li>Ability to appreciate what constitutes the scientific method.</li> <li>Ability to critically reflect the scientific authority of different information sources.</li> <li>Ability to perform some basic inferential statistical analyses.</li> </ul>
Contents <ul style="list-style-type: none"> <li>Rules of academic work, esp. referencing sources.</li> <li>What constitutes scientific information? Case studies.</li> <li>Basics of inferential statistical analyses (hands-on work).</li> </ul>
Recommended Literature <ul style="list-style-type: none"> <li>Website „Understanding Science“ of the University of California, Berkeley <a href="http://undsci.berkeley.edu">http://undsci.berkeley.edu</a></li> <li>Hand, David (2008). <i>Statistics. A Very Short Introduction</i>. Oxford University Press.</li> <li>Khan Academy. <i>Statistics and Probability</i> <a href="https://www.khanacademy.org/math/statistics-probability">https://www.khanacademy.org/math/statistics-probability</a></li> </ul>
Teaching and Learning Methods Lecture (complemented by tutorial and individual student inputs for specific subjects).

## Exam(s)

Precondition of Examination	
Type of Examination	Duration of Examination (if written or oral exam)
Successful completion of several smaller homeworks and one short term paper (collection) (S).	
Composition of Module Mark	
First Homework: Not graded, only hand-in is required. This Homework can earn the author a 0,3 grade bonus towards the final grade. Second Homework (exposé for Term Paper): 25%. Third Homework (Term Paper): 75%.	

## Additional Information

Previous Knowledge / Conditions for Participation (in form and content)
Applicability of Module
Frequency of Offering
Winter term
Course Language
English

Update: 29th Sept, 2016