## Module Card

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

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Fundamentals and Methods</td>
<td>1 semester</td>
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<tr>
<th>CP (according to ECTS)</th>
<th>Contact Hours/Week (SWS)</th>
<th>Self-study</th>
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<tbody>
<tr>
<td>5 CP (= 150 h workload)</td>
<td>3 (= 31.5 h contact time)</td>
<td>118.5 h</td>
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### Objectives and Contents

#### Objective of Qualification (competencies)
- Ability to appreciate what constitutes the scientific method.
- Ability to critically reflect the scientific authority of different information sources.
- Ability to perform some basic inferential statistical analyses.

#### Contents
- Rules of academic work, esp. referencing sources.
- What constitutes scientific information? Case studies.
- Basics of inferential statistical analyses (hands-on work).

#### Recommended Literature
- Website „Understanding Science“ of the University of California, Berkeley [http://undsci.berkeley.edu](http://undsci.berkeley.edu)

### Teaching and Learning Methods
Lecture (complemented by tutorial and individual student inputs for specific subjects).

### Exam(s)

#### Precondition of Examination

**Type of Examination**  
Successful completion of several smaller homeworks and one short term paper (collection) (S).

**Duration of Examination (if written or oral exam)**

**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*