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| *Module number:* | | ***Module title: Reproducible Research in Ecology, Evolution, Behaviour, and Environmental Studies*** | | | | | | |
| **BIO** | **633** |  | | | | | | |
| *Module leader* | | *Title* | *First name(s)* | | *Surname* | | | |
| **Prof** | **Owen** | | **Petchey** | | | |
|  |  | |  | | | |
| *Additional teachers* | | *Title* | *First name(s)* | | *Surname* | | | |
| **Dr** | **Frank** | | **Pennekamp** | | | |
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| *Position in curriculum*  *and type of module* | | ***Basic Studies:*** | | *compulsory module* | | | *optional core* | |
| *Type of module (please cross one box only)* | | *Lecture*  *Lecture with practical classes*  *Lecture with exercises*  *Lecture with practical classes and exercises* *Practical course*  *Exercises*  *other:* | | | | |
| ***HS****, time(s):* | | | | | | |
| ***FS***, *time(s):* | | | | | | |
| ***Advanced studies*** *(optional core modules)*  *Block course 3½ weeks*  *Block course 7 weeks* | | | | ***HS*** | | ***FS*** |
| *1st quarter of semester* | | |
| *2nd quarter of semester* | | |
| *3rd quarter of semester* | | | | | | |
| *4th quarter of semester* | | | | | | |
| *Special lecture Monday* | | | | *Time*: | | |
| *Special lecture Tuesday morning* | | | | *Time*: | | |
| *Double-sessions (2 hours) have to start at even hours in the morning and at odd hours in the afternoon* | | | | | | |
| *other advanced studies module (e.g. in the semester break)* | | | | | | |

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| *The module will be offered:* | | | *every year*  *every two years*  *every three years*  *every four years* | | | ***Credit points****:* **1** | |
| *Offered for the first time in*  *Fall semester 20* | |
|
| *Spring semester 20****15*** | |
| *Room preference* | | *For the lecture* | | *For the practical (or exercises)* | | | |
| *Module leader will reserve the room him/herself* | | *Module leader will reserve the room him/herself* | | | |
| Reservation should be done by the central services | | Reservation should be done by the central services | | | |
| *Prerequisites for participation:*  **NA** | | | | | | | *Maximum number of students:*  **NA** |
| *Contents (Short description of max. 50 words)*  The aim of this course is to learn how to make research reproducible, by learning methods associated with published scientific research, and by making a reproducible report of these methods.  During this course, we will learn how to:  - make our own research reproducible.  - reproduce the figures, tables, statistical methods, and numerical modelling of selected published papers.  - collaborate, and create about science.  - make our reproductions publically available.  You will learn how to make reproductions using R markdown.  Any enquiries about the module should be made as an Issue or wiki entry here: <https://github.com/opetchey/RREEES> | | | | | | | |
| *Learning outcomes:*  You will:  - be able to proficiently use new statistical methods  - be able to proficiently use new methods for data manipulation  - be able to proficiently use Rmarkdown for report writing  - be able to proficiently use github for scientific collaboration  - be able to better critique scientific research  1 CP is gained by actively participating (=submitting 10 accepted pull requests) in the reproduction of at least two papers and attending at least 20 classes. Please make an attendance form and bring it to each meeting.  *(May be submitted on a separate sheet. Contact Dr. Sabine Jacob* [*sabine.jacob@biol.uzh.ch*](mailto:sabine.jacob@biol.uzh.ch) *for support or questions)* | | | | | | | |
| *The module is part of the following Master program (valid only for modules in the advanced studies curriculum)* | | | | | | | |
| *Molecular and Cellular Biology*  *Developmental Biology*  *Genetics*  *Microbiology*  *Plant Sciences*  *Neurosciences*  *Quantitative Biology und Systems Biology*  *Immunology* | | | | | *Human Biology*  *Anthropology*  *Behavioral Sciences*  *Ecology*  *Systematics and Evolution*  *Palaeontology*  *Virology*  *Cancer Biology* | | |
| *Assessment* | *The form and timing of the assessment is regulated and cannot be changed.* | | | | | | |
| *Modules of the advanced studies curriculum and optional modules of the basic or advanced studies curriculum:* | | | | | | |
| 1. *Form and duration of the assessment*   1 CP is gained by actively participating (=submitting 10 accepted pull requests) in the reproduction of at least two papers and attending at least 20 classes. | | | | | | |
| *b)*  *graded (will be included in the grade point average)*  *ungraded (not included in the final grade)* | | | | | | |
| *c)* Timing of the assessment  *continuous assessment, without a final exam*  *continuous assessment, with a final exam*  *final exam towards the end of the module* | | | | | | |
| *Additional comments:*  Any enquiries about the module should be made as an Issue or wiki entry here: https://github.com/opetchey/RREEES | | | | | | | |

Kontakt betreffend Modulblättern Studienkoordination Fachbereich Biologie (Status März. 2014):  
Ewa Bolli: [ewa.bolli@biol.uzh.ch](mailto:ewa.bolli@biol.uzh.ch)