

<b>Module title</b>		<b>Abbreviation</b>
Basic Laboratory Techniques and Procedures		07-ASQ-ATL-162-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Dean of Studies		Faculty of Biology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	(not) successfully completed	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	--
<b>Contents</b>		
<p>Seminars and workshops covering essential lab techniques. Participants are arranged into small groups and instructed by peer tutors who have practical work experience as pharmaceutical, medical or biological lab technicians and share their expertise. Topics covered include: lab protocols, recording data and results in lab notebooks, dilution series: various buffers and solutions, calculation of molarity, preparation of small amounts of different solutions and buffers, pH values, titration, pipetting precisely, measuring, weighing, common mistakes, essential lab techniques, problem solving tools, material storage, lab safety and good practice.</p>		
<b>Intended learning outcomes</b>		
<p>Students are able to perform essential lab techniques independently, they have learned how to avoid common mistakes and have acquired problem solving skills. They can prepare standard solutions and buffers independently and can reliably calculate various dilution series as well as molarity. Students are able to record results and protocols in a lab notebook. They have been trained in safe laboratory practices.</p>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: German and/or English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) presentation (approx. 30 minutes) or b) portfolio (approx. 20 pages) Language of assessment: German and/or English</p>		
<b>Allocation of places</b>		
max. 15 places (lottery)		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		