

## Course Descriptions None 2016-2017

Course Title	Analysis II																								
Course Code	EBC1032																								
ECTS Credits	6,5																								
Assessment	Whole/Half Grades																								
Period	<table border="1"> <thead> <tr> <th>Period</th> <th>Start</th> <th>End</th> <th>Mon</th> <th>Tue</th> <th>Wed</th> <th>Thu</th> <th>Fri</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>6-2-2017</td> <td>7-4-2017</td> <td>X/E</td> <td></td> <td>X/E</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>18-4-2017</td> <td>9-6-2017</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Period	Start	End	Mon	Tue	Wed	Thu	Fri	4	6-2-2017	7-4-2017	X/E		X/E			5	18-4-2017	9-6-2017					
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4	6-2-2017	7-4-2017	X/E		X/E																				
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Level	Intermediate																								
Coordinator	Mathias Staudigl For more information:m.staudigl@maastrichtuniversity.nl																								
Language of instruction	English																								
Goals	<p>Learn the concepts and techniques in the field of integral calculus that are prerequisite for 'probability theory', '(applied) statistics', 'mathematical economics' and 'operations research'.</p> <p>Can check the topological properties of a subset of the plane.</p> <p>Know how to prove that a function of two variables is continuous.</p> <p>Be able to apply the Implicit Function of Theorem.</p> <p>Know how to prove that a function of two variables has a directional derivative or is (totally) differentiable.</p> <p>Learn to solve constrained and unconstrained optimisation problems.</p>																								
Description	Functions of more than one variable, series, multiple integrals, integral calculus of functions of one variable.																								
Literature	Syllabus.																								
Prerequisites	<ul style="list-style-type: none"> <li>- Differential calculus for functions of one variable (as, for instance, in the course Analysis 1).</li> <li>- Elementary linear algebra (as, for instance, in the course Linear Algebra).</li> </ul> <p>An advanced level of English.</p>																								
Teaching methods	Lecture / Assignment																								
Assessment methods	Written Exam																								
Evaluation in previous academic year	For the complete evaluation of this course please click <a href="http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM">http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM</a>																								
This course belongs to the following programme / specialisation	Bachelor Econometrics and Operations Research      Year 1 Compulsory Courses																								