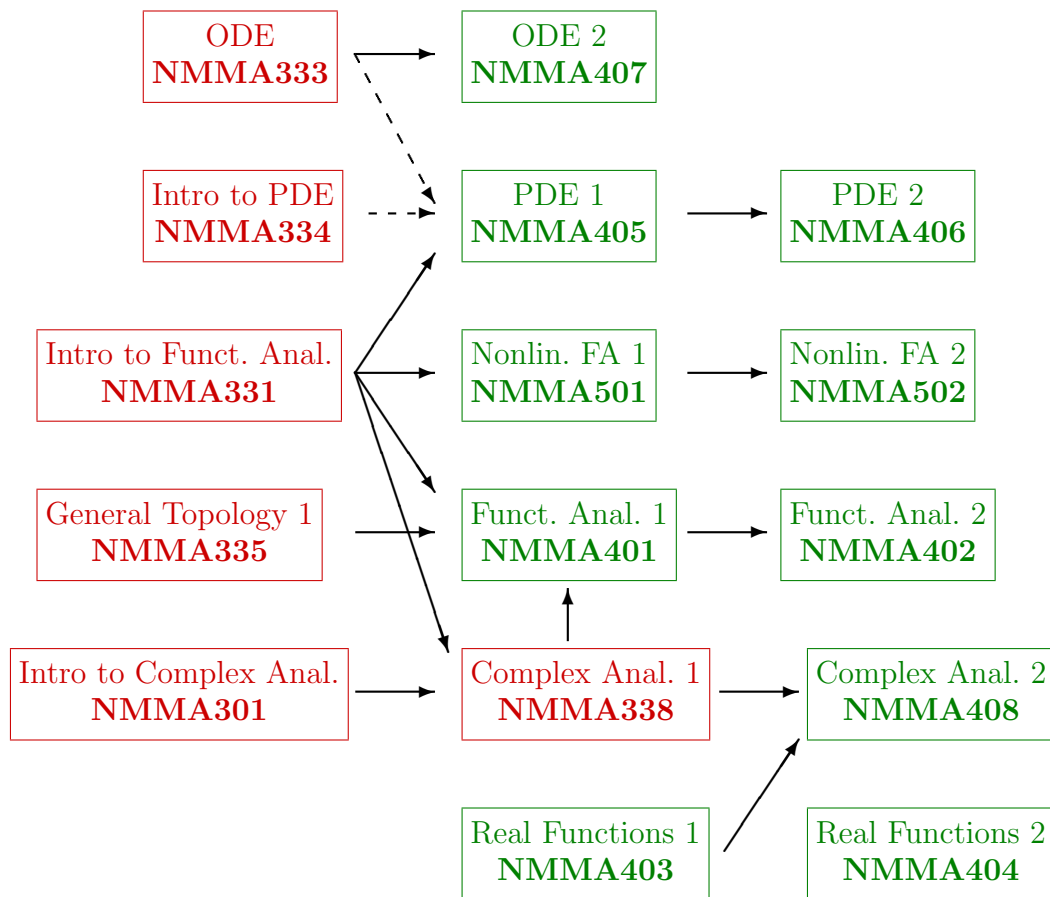


Table of key connections of the courses in Mathematical Analysis



Explanation:

- Courses in **red** are courses of the bachelor program General Mathematics, specialization Mathematical Analysis recommended for the third year. They are taught in Czech. The necessary knowledge covered by these courses and possibilities how to learn it are described at Entry requirements.
- Courses in **green** are mandatory courses of the Master program Mathematical Analysis.

Comments on connections:

- Full arrows denote key connections. It means that in the subsequent course a nontrivial part of the knowledge from the preceding course is used.
- Dashed arrows do not denote direct connections but they mean that the preceding course is necessary for putting the new knowledge into a context.
- In all the mentioned courses knowledge covered by the courses recommended for the first two years of the bachelor program General mathematics are assumed. Especially: differential calculus of one and several real variables, integral calculus of one real variable, metric spaces (including completeness and compactness), measure theory, Lebesgue measure, Lebesgue integral (including the abstract one), elements of algebra (matrix calculus, vector spaces). Without this knowledge there is no point in studying mathematical analysis on the master level.