

# List of courses taught

Raphael Wittkowski

See <https://www.uni-muenster.de/Physik.TP/wittkowski/courses.pdf> for an update.

**Courses in total:** 49

**Lecture courses:** 15

- Bachelor: 7 (incl. 3x Teacher Education)
- Master: 6
- Invited external: 2

**Seminars:** 34

- Bachelor: 6
- Master: 14
- General: 14

## Contents

<b>1</b>	<b>Courses taught at WWU</b>	<b>2</b>
<b>2</b>	<b>Courses taught at HHU</b>	<b>4</b>
<b>3</b>	<b>Invited courses taught externally</b>	<b>4</b>

# 1 Courses taught at WWU

All my teaching in the years 2016-2022 was voluntary, since my own position was funded by self-acquired third-party funding and not associated with an obligation to teach in these years.

I taught all courses that are listed here myself and did not delegate the teaching to research assistants. Exercise groups for which I was responsible are not listed here for brevity. I taught some of the exercise groups myself, others were taught by research assistants.

## SS 2023

1. Master seminar “Theory of complex systems”<sup>SL</sup>
2. Research seminar “Self-organization and complexity”<sup>GT</sup>

## WS 2022/2023

1. Master lecture course “Introduction to the theory of phase transitions”<sup>UT</sup>
2. Bachelor lecture course “Mathematik für das Lehramt Physik an Haupt-, Real- und Gesamtschulen”
3. Master seminar “Theory of complex systems”<sup>LT</sup>
4. Bachelor seminar “Theorie der Atome, Kerne und kondensierten Materie”<sup>TP</sup>
5. Research seminar “Self-organization and complexity”<sup>GT</sup>

## SS 2022

1. Master seminar “Theory of complex systems”<sup>LT</sup>
2. Research seminar “Self-organization and complexity”<sup>GT</sup>

## WS 2021/2022

1. Master lecture course “Introduction to the theory of phase transitions”<sup>UT</sup>
2. Bachelor lecture course “Numerische Lösung physikalischer Probleme”
3. Bachelor lecture course “Mathematik für das Lehramt Physik an Haupt-, Real- und Gesamtschulen”
4. Master seminar “Theory of complex systems”<sup>LT</sup>
5. Bachelor seminar “Theorie der Atome, Kerne und kondensierten Materie”<sup>TP</sup>
6. Research seminar “Self-organization and complexity”<sup>GT</sup>

## SS 2021

1. Bachelor lecture course “Einführung in das wissenschaftliche Programmieren”
2. Master seminar “Theory of complex systems”<sup>LT</sup>
3. Research seminar “Self-organization and complexity”<sup>GT</sup>

## WS 2020/2021

1. Master lecture course “Introduction to the theory of phase transitions”<sup>UT</sup>

2. Bachelor lecture course “Mathematik für das Lehramt Physik an Haupt-, Real- und Gesamtschulen”
3. Master seminar “Theory of complex systems”<sup>LT</sup>
4. Bachelor seminar “Theorie der Atome, Kerne und kondensierten Materie”<sup>TP</sup>
5. Research seminar “Self-organization and complexity”<sup>GT</sup>

### **SS 2020**

1. Master seminar “Theory of complex systems”<sup>LT</sup>
2. Research seminar “Self-organization and complexity”<sup>GT</sup>

### **WS 2019/2020**

1. Master lecture course “Introduction to the theory of phase transitions”<sup>UT</sup>
2. Bachelor lecture course “Numerische Lösung physikalischer Probleme”
3. Master seminar “Theory of complex systems”<sup>LT</sup>
4. Bachelor seminar “Theorie der Atome, Kerne und kondensierten Materie”<sup>TP</sup>
5. Research seminar “Self-organization and complexity”<sup>GT</sup>

### **SS 2019**

1. Bachelor lecture course “Einführung in das wissenschaftliche Programmieren”
2. Master seminar “Theory of complex systems”<sup>LT</sup>
3. Research seminar “Self-organization and complexity”<sup>GT</sup>

### **WS 2018/2019**

1. Master lecture course “Theory of phase transitions”<sup>UT</sup>
2. Master seminar “Theory of complex systems”<sup>LT</sup>
3. Bachelor seminar “Theorie der Atome, Kerne und kondensierten Materie”<sup>TP</sup>
4. Research seminar “Self-organization and complexity”<sup>GT</sup>

### **SS 2018**

1. Master seminar “Theory of complex systems”<sup>LT</sup>
2. Research seminar “Self-organization and complexity”<sup>GT</sup>

### **WS 2017/2018**

1. Master lecture course “Dynamics of phase transitions”<sup>UT</sup>
2. Master seminar “Theory of complex systems”<sup>LT</sup>
3. Bachelor seminar “Theorie der Atome, Kerne und kondensierten Materie”<sup>TP</sup>
4. Research seminar “Self-organization and complexity”<sup>GT</sup>

### **SS 2017**

1. Master seminar “Theory of complex systems”<sup>LT</sup>
2. Research seminar “Self-organization and complexity”<sup>GT</sup>

## WS 2016/2017

1. Master seminar “Theory of complex systems”<sup>LT</sup>
2. Research seminar “Self-organization and complexity”<sup>GT</sup>

<sup>UT</sup>Together with Prof. Dr. Uwe Thiele

<sup>SL</sup>Together with Prof. Dr. Stefan Linz

<sup>LT</sup>Together with Prof. Dr. Stefan Linz and Prof. Dr. Uwe Thiele

<sup>GT</sup>Together with members of the research group Thiele

<sup>TP</sup>Together with other teachers of theoretical physics

## 2 Courses taught at HHU

WS 2010/2011-WS 2011/2012, WS 2012/2013, SS 2015-SS 2016

1. Involvement in the teaching of the Institute for Theoretical Physics II within the Bachelor’s and Master’s degree programmes in physics (leading of exercise groups, giving lectures as a substitute,...)

## 3 Invited courses taught externally

See “List of talks and poster presentations” at <https://www.uni-muenster.de/Physik.TP/wittkowski/talks.pdf>.