Bachelor in Physics, University of Bonn

| 180 LP* | Experimer physics | | | ratory | Mathematics | | Theoretical Physics | | Elective | | Overview exams | Extra courses | Bachelor thesis |
|---------|---|------|--|---------|---|---------|--|--|-------------------|--------------------------------|-------------------------------------|--------------------------------|--------------------|
| 1. Sem. | physics110/1 | 11 | | | math14 | 40/141 | | | physic | cs120 | | physics130/131 | |
| | Physics I Mechanics, Thermodynamics 4+2 SWS 7 LP | | | | Mathematics I for Physicists 6+3 SWS 13 LP | | | | | | | Introduction to EDP | |
| | | | | | | | | | | | | 1+2 SWS 4 LP | |
| 2. Sem. | physics110/2 | | physics | 260/112 | math24 | | physics22 | 0/221 | | | | | |
| | Physics II Electromagnetism | | Lab course Mechanics, Thermodynamics | | Mathematics II for Physicists | | Theoretical F | oretical Physics I Mechanics Courses from Astronomy / Chemistry / Informatics / Meteorology / | | nomy / listry / latics / | | | |
| | 4+2 SWS | 7 LP | 3 SWS | 3 LP | 4+3 SWS | 11 LP | 4+3 SWS | 9 LP | Business | studies / | | | |
| 3. Sem. | physics110/3 | 311 | physics | 360/212 | math34 | 40/341 | physics32 | 0/321 | Econo Philos | | | | |
| | Physik III Optics and wave mechanics | | Lab course Electromagnetism | | | | | | | | | | |
| | | | 3 SWS | 3 LP | Mash an ation III | | The continuit Discripe II | | | | | | |
| | 4+2 SWS 7 LP | | Physics360/312 Lab course Optics and wave mechanics | | Mathematics III for Physicists | | Theoretical Physics II Electrodynamics | | | | | | |
| | | | | | | | | | | | | | |
| | | | 3 SWS | 3 LP | 4+3 SWS | 11 LP | 4+3 SWS | 9 LP | | | | | |
| 4. Sem. | physics410/4 | 111 | physics | 460/313 | physics4 | 440/441 | physics42 | 0/421 | physics450 | | | | |
| | Physics IV Atoms, Molocules, Condensed Matter | | Lab course electronics + block lecture | | Numerical methods of Physics | | Theoretical P Quantum me | | | | | | |
| | 4+2 SWS | 7 LP | 4 SWS | 4 LP | 2+2 SWS | 6 LP | 4+3 SWS | 11 LP | | | | | |
| 5. Sem. | physics410/5 | 511 | physics | 560/412 | | | physics52 | 0/521 | | 8 LP | physics530/531 | physics540/541 | physics590 |
| | Physics V Cores and Paritcles | | Lab course Atoms, Molocules, Condensed Matter | | | | Theoretical Physics IV Statistical Physics 4+3 SWS 9 LP | | | | Examination Experimental Physics | Seminar Presentation | |
| | 4+2 SWS 7 LP | | 5 SWS 5 LP | | | | | | | | 4 LP | 3 SWS 3 LP | |
| 6. Sem. | | | physics660/512 Lab course Cores and Paritcles | | | | | | Compulsory course | | physics530/532 | physics540/542 | Bachelor thesis |
| | | | | | | | | | | | Examination Theoretical Physics | Seminar for Bachelor thesis | |
| | | | 5 SWS | 5 LP | | | | | | 6 LP | 4 LP | 2 SWS 2 LP | 12 LP |

^{*} LP: Credits, 1LP= 30h of work

SWS (x+y): Hours per week for lecture (x) and exercise classes (y).