

Checklist for external applicants for the
Physics Master Program at the University of Regensburg (UR)
Based on a resolution of the examination committee in physics,
December 5, 2012

A successful application to the physics master program at the University of Regensburg requires a Bachelor degree in physics or a related field with grade 2.5 or better and to provide a proficiency certificate to speak and write in English at a level B2 or better. The examination committee needs to assess the grade of foreign applicants and to decide if an “Eignungsverfahren” (admission test) is required. To assist us in judging whether your grades are comparable to our 2.5 threshold and whether the “Eignungsverfahren” (eligibility test) is required, we kindly ask to provide items A – B (below) as well as the proof of proficiency in English (C). The first requirement A requires the applicant to compare the content of her/his bachelor program to the content of the bachelor program of physics in Regensburg.

A) Please fill in the form below that lists the courses which are required to complete the Bachelor of Physics Program at the University of Regensburg.

For each course item, indicate

1. Number of credit points,
2. Duration of term in weeks or months as well as number of weekly hours (term duration in Regensburg is two semesters per year at 13 weeks each, i.e. a lecture with 4 hrs per week plus 2 hours problem solving class counts as approximately 52 + 26 hrs),
3. Title and author of textbook that was used (e.g. Feynman, Leighton, Sands: The Feynman Lectures on Physics),
4. Grade and explanation of grade system (example a): best grade A, worst grade F; example b): best grade 1, worst grade 5),
5. Personal ranking within class (e.g. top 7% etc.).

Please provide a complete transcript of records of your Bachelor degree. If your course program does not cover certain items of the Regensburg bachelor program, please leave that entry blank and describe any alternate courses you have taken by the same criteria 1.-5. (above).

B) Provide two letters of recommendation by University professors. We suggest that you show the list of contents of the Regensburg Bachelor in Physics programme to them and ask them to base their recommendation on the contents of the Regensburg Bachelor in Physics programme.

C) Proof of proficiency in English language by TOEFL or GRE

In addition to these requirements from the Department of Physics, the student office of the University of Regensburg requires to supply the documents listed at this link:

<http://www.uni-regensburg.de/ur-international/international-students/application-admission-registration/graduate-programmes/index.html> ("Application Forms")

| Course item | hours @ UR | hours actual | grade | ranking | average grade |
|--|----------------------|-----------------|-------|---------|------------------|
| Corresponding class (CC) | | | | | |
| Textbook (Book) | class + exercises | | | | |
| Mathematics for Physicists I: Linear Algebra CC: Book: | 52+26 | | | | |
| Mathematics for Physicists II: Calculus I CC: Book: | 52+26 | | | | |
| Mathematics for Physicists III: Calculus II CC: Book: | 52+26 | | | | |
| Mathematics for Physicists IV: Calculus III CC: Book: | 52+26 | | | | |
| Experimental Physics I: Mechanics CC: Book: | 52+26 | | | | |
| Experimental Physics II: Electrodynamics CC: Book: | 52+26 | | | | |
| Experimental Physics III: Waves and Quanta CC: Book: | 52+26 | | | | |
| Experimental Physics IV: Thermodynamics CC: Book: | 52+26 | | | | |
| Theoretical Physics Ia: Classical Dynamics CC: Book: | 52+26 | | | | |
| Theoretical Physics Ib: Electrodynamics CC: Book: | 52+26 | | | | |
| | | | | | |

| Course item | hours @ UR | hours actual | grade | ranking | average grade |
|---|----------------------|-----------------|-------|---------|------------------|
| Corresponding class (CC) | | | | | |
| Textbook (Book) | class + exercises | | | | |
| Theoretical Physics II: Quantum Mechanics I CC: Book: | 52+26 | | | | |
| Theoretical Physics III: Quantum Mechanics II CC: Book: | 52+26 | | | | |
| Theoretical Physics IV: Quantum Statistics CC: Book: | 52+26 | | | | |
| Structure of Matter I: Atoms and Molecules CC: Book: | 52+26 | | | | |
| Structure of Matter II: Solid State Physics CC: Book: | 52+26 | | | | |
| Structure of Matter III: Nuclei and Particles CC: Book: | 52+26 | | | | |
| Beginner's Lab Course A1 CC: Contents: | 42 | | | | |
| Beginner's Lab Course A2 CC: Contents: | 42 | | | | |
| Lab Course B CC: Contents: | 65 | | | | |

| Course item | hours @ UR | hours actual | grade | ranking | average grade |
|--------------------------|----------------------|-----------------|-------|---------|------------------|
| Corresponding class (CC) | | | | | |
| Textbook (Book) | class + exercises | | | | |
| Advanced Lab Course I | 150 | | | | |
| CC: | | | | | |
| Contents: | | | | | |
| Advanced Lab Course II | 150 | | | | |
| CC: | | | | | |
| Contents: | | | | | |
| Supplemental studies | 26 | | | | |
| Supplemental studies | 26 | | | | |
| Supplemental studies | 26 | | | | |
| Miscellaneous | 26 | | | | |
| Supplementary Course | 52 | | | | |

Further remarks: