



# Bachelor in Physik an der Universität Zürich

Information zum Studium unter:

<https://www.physik.uzh.ch/de/studium.html>



Mathematisch-Naturwissenschaftliche Fakultät:

[www.mnf.uzh.ch](http://www.mnf.uzh.ch)

Informatikdienste: [www.zi.uzh.ch](http://www.zi.uzh.ch)

Hauptbibliothek: <https://www.ub.uzh.ch/de/getstarted.html>

# Studienaufbau

## Bachelor 180 ECTS (Monofach)

## Bachelor 150 ECTS (Major 150)

Übersicht über den Bachelor-Studiengang: Mono- und Major- (150 ECTS) Studienprogramme

|                   |                                                                       |                                                 |                                                |                                                                       |                                                       |                                                       |                                    |
|-------------------|-----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------------------------------|
|                   | AI111 Artificial Intelligence and Critical Thinking 1 ECTS            |                                                 |                                                |                                                                       |                                                       |                                                       |                                    |
| 1*<br>HS<br>(31)  | Physik I<br>PHY111 8 ECTS                                             | Vertiefung zu<br>Physik I<br>PHY110 2 ECTS      | Praktikum zu<br>Physik I<br>PHY112 3 ECTS      |                                                                       | Lineare Algebra I<br>MAT111 8 ECTS                    | Analysis I<br>MAT121 8 ECTS                           |                                    |
| vFZ               | AI121PHY Artificial Intelligence and Critical Thinking Seminar 1 ECTS |                                                 |                                                |                                                                       |                                                       |                                                       |                                    |
| 2<br>FS<br>(29)   | Physik II<br>PHY121 8 ECTS                                            | Vertiefung zu<br>Physik II<br>PHY120 2 ECTS     | Praktikum zu<br>Physik II<br>PHY122 4 ECTS     | Scientific<br>Computing<br>PHY124 4 ECTS                              | Lin. Algebra II für<br>Physikstud.<br>MAT142 3 ECTS   | Analysis II für<br>Physikstudierende<br>MAT132 8 ECTS |                                    |
| vFZ               |                                                                       |                                                 |                                                |                                                                       |                                                       |                                                       |                                    |
| 3<br>HS<br>(8/27) | Physik III<br>PHY131 8 ECTS                                           | Datenanalyse I<br>PHY231 3 ECTS                 |                                                | Mathematische<br>Methoden der Physik I<br>PHY312 8 ECTS               | Mechanik<br>PHY311 8 ECTS                             | Wahlmodule<br>oder<br>Nebenfach<br>(30 ECTS)          |                                    |
| vFZ               |                                                                       |                                                 |                                                |                                                                       |                                                       |                                                       |                                    |
| 4<br>FS<br>(7/17) | Physik IV<br>PHY141 5 ECTS                                            | Datenanalyse II <sup>(1)</sup><br>PHY241 2 ECTS | Elektronik <sup>(1)</sup><br>PHY250 3 ECTS     | Mathematische<br>Meth. der Physik II <sup>(1a)</sup><br>PHY322 5 ECTS | Elektrodynamik<br>PHY321 8 ECTS                       |                                                       |                                    |
| vFZ               | Praktikum III<br>PHY132 4 ECTS                                        |                                                 |                                                |                                                                       |                                                       |                                                       |                                    |
| 5<br>HS<br>(2/18) | Festkörperphysik<br>PHY210 5 ECTS                                     | PR FK<br>PHY220 <sup>(1a)</sup><br>2 ECTS       | Kern- und<br>Teilchenphysik I<br>PHY211 5 ECTS | PR KT<br>PHY221 <sup>(1a)</sup><br>2 ECTS                             | Proseminar<br>Theorie <sup>(2)</sup><br>PHY391 2 ECTS | Wahlpflichtmodul<br>5/8 ECTS                          | Quantenmechanik I<br>PHY331 8 ECTS |
| vFZ               | Werkstatt I <sup>(1)</sup> PHY113 1 ECTS                              |                                                 |                                                |                                                                       |                                                       |                                                       |                                    |
| 6<br>FS<br>(1/17) | Bachelorarbeit<br>PHY399<br>12 ECTS                                   |                                                 |                                                | Proseminar<br>Exp.physik <sup>(2)</sup><br>PHY291 2 ECTS              | Wahlpflichtmodul<br>5/8 ECTS                          | Thermodynamik<br>PHY341 5 ECTS                        |                                    |

(1) = Pflichtmodule nur für Monofach, Wahlmodule Major 150, (1a) = Wahlpflichtmodul Major 150

(2) = Wahlpflichtmodule Major 150 (Proseminare)

\* = Semester, HS/FS, (Monofach/Major) ECTS pro Semester aus Pflichtmodulen

# Studienaufbau

## Bachelor 120 ECTS (Major 120)

Übersicht über den Bachelor-Studiengang: Major-Studienprogramm (120 ECTS)

|                  |                                                                       |                                                                      |                                                                        |                                                                       |                                                             |                                                       |  |
|------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------|--|
|                  | AI111 Artificial Intelligence and Critical Thinking 1 ECTS            |                                                                      |                                                                        |                                                                       |                                                             |                                                       |  |
| 1*<br>HS<br>(31) | Physik I<br>PHY111 8 ECTS                                             | Vertiefung zu<br>Physik I<br>PHY110 2 ECTS                           | Praktikum zu<br>Physik I<br>PHY112 3 ECTS                              |                                                                       | Lineare Algebra I<br>MAT111P 8 ECTS                         | Analysis I<br>MAT121P 8 ECTS                          |  |
| vfZ              | AI121PHY Artificial Intelligence and Critical Thinking Seminar 1 ECTS |                                                                      |                                                                        |                                                                       |                                                             |                                                       |  |
| 2<br>FS<br>(29)  | Physik II<br>PHY121 8 ECTS                                            | Vertiefung zu<br>Physik II<br>PHY120 2 ECTS                          | Praktikum zu<br>Physik II<br>PHY122 4 ECTS                             | Scientific<br>Computing<br>PHY124 4 ECTS                              | Lin. Algebra II für<br>Physikstud.<br>MAT142 3 ECTS         | Analysis II für<br>Physikstudierende<br>MAT132 8 ECTS |  |
| vfZ              |                                                                       |                                                                      |                                                                        |                                                                       |                                                             |                                                       |  |
| 3<br>HS<br>(27)  | Physik III<br>PHY131 8 ECTS                                           | Datenanalyse I <sup>(3)</sup><br>PHY231 3 ECTS                       |                                                                        | Mathematische<br>Methoden der Physik I<br>PHY312 8 ECTS               | Mechanik <sup>(3)</sup><br>PHY311 8 ECTS                    | Nebenfach<br>(60 ECTS)                                |  |
| vfZ              |                                                                       |                                                                      |                                                                        |                                                                       |                                                             |                                                       |  |
| 4<br>FS<br>(5)   | Physik IV<br>PHY141 5 ECTS                                            |                                                                      |                                                                        | Mathem.Methoden der<br>Physik II (WP) <sup>(1)</sup><br>PHY322 5 ECTS | Elektrodynamik<br>(WP) <sup>(1)</sup><br>PHY321 8 ECTS (WP) |                                                       |  |
| 5<br>HS<br>(0)   | Festkörperphysik<br>(WP) <sup>(1)</sup><br>PHY210 5 ECTS              | Kern- und Teilchen-<br>physik I (WP) <sup>(1)</sup><br>PHY211 5 ECTS | Proseminar<br>Theoretische Physik <sup>(2)</sup><br>PHY391 2 ECTS (WP) | Quantenmechanik I<br>(WP) <sup>(1)</sup><br>PHY331 8 ECTS             |                                                             |                                                       |  |
| vfZ              |                                                                       |                                                                      |                                                                        |                                                                       |                                                             |                                                       |  |
| 6<br>FS<br>(8)   | Bachelorarbeit<br>PHY398 8 ECTS                                       |                                                                      |                                                                        | Proseminar<br>Experimentalphysik <sup>(2)</sup><br>PHY291 2 ECTS (WP) | Thermodynamik<br>(WP) <sup>(1)</sup><br>PHY341 5 ECTS       |                                                       |  |

(1) = Wahlpflichtmodule (WP), Wahlpflichtblock 1.

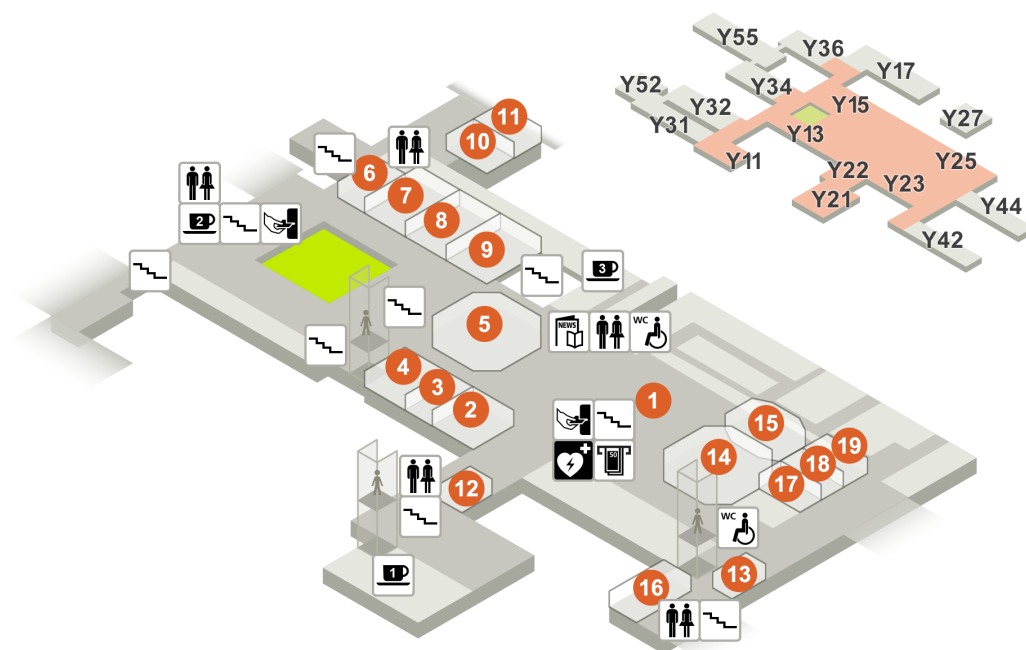
(2) = Wahlpflichtmodule (WP), Wahlpflichtblock 2 (Proseminare).

(3) = Diese Module können optional im 5. Semester belegt werden.

\* = Semester, HS/FS, (ECTS) ECTS pro Semester aus Pflichtmodulen.

# Sich zurechtfinden...

Stundenpläne, Räume, Dozierende: [UZH Vorlesungsverzeichnis](https://www.plaene.uzh.ch)



- |                     |                                              |                                          |
|---------------------|----------------------------------------------|------------------------------------------|
| 1 Lichthof          | 11 Hörsaal Y16-G-15                          | 19 Hörsaal Y44-G-13                      |
| 2 Hörsaal Y03-G-85  | 12 Dozentenfoyer<br>Y22-G-74                 | Cafeteria Seerose<br>Y22-G-62A           |
| 3 Hörsaal Y03-G-91  | 13 Seminarraum Y23-G-04                      | Cafeteria Brunnenhof<br>Y13-G-11/Y34-G-2 |
| 4 Hörsaal Y03-G-95  | 14 Hörsaal Y24-G-45                          | Cafeteria Atrium<br>Y05-G-37             |
| 5 Hörsaal Y04-G-30  | 15 Hörsaal Y24-G-55                          | Validierstation                          |
| 6 Hörsaal Y15-G-19  | 16 Anatomische Studien-<br>sammlung Y42-G-08 | Bankomat                                 |
| 7 Hörsaal Y15-G-20  | 17 Hörsaal Y44-G-05                          | Kiosk                                    |
| 8 Hörsaal Y15-G-40  | 18 Hörsaal Y44-G-09                          | Defibrillator                            |
| 9 Hörsaal Y15-G-60  |                                              |                                          |
| 10 Hörsaal Y16-G-05 |                                              |                                          |

Pläne:

<https://www.plaene.uzh.ch>