**Annex 2:**

**Study schedule**

with the type and scope of the courses in SWS as well as the required achievements, the type, scope, and structure of which can be found in the module descriptions

| Number of module | Name of module | 1st semester V/Ü/S/P | 2nd semester V/Ü/S/P | 3rd semester V/Ü/S/P | 4th semester (M) | CP |
|---|---|---|---|---|---|---|
| **Compulsory area** | | | | | | |
| VW-ATL-01 | Operations Research and Logistics | 2/2/0/0 PL | | | | 5 |
| VW-ATL-02 | Material Flow Analysis and Optimization | 2/2/0/0 PL | | | | 5 |
| VW-ATL-03 | Methods in Transportation Econometrics and Statistics | 2/2/0/0 PL | | | | 5 |
| VW-ATL-04 | Decision Making in Enterprise Logistics | | 2/2/0/0 PL | | | 5 |
| VW-ATL-05 | Flight Performance and Aerodynamics | 7/1/0/0,5 PVL, PL | | | | 10 |
| VW-ATL-06 | Flight Planning and Aircraft Operations | | | 4/0,5/0/0,5 PL | | 5 |
| VW-ATL-07 | Air Traffic and Airport Operations | | 6/2/0/0 PL | | | 10 |
| VW-ATL-08 | CNS and tactical ATM | | | 6/1/0/1 PL | | 10 |
| **Compulsory elective area** | | | | | | |
| A total of 35 credit points of modules must be selected. | | | | | | |
| Modules worth at least 15 credit points must be selected. | | | | | | |
| VW-ATL-20 | Safety and Airline Management | | 3/1/0/0 PL | | | 5 |
| VW-ATL-21 | Terminal Operations | | 3/1/0/0 PVL, PL | | | 5 |
| VW-ATL-22 | Aircraft Engines | | 2/1/0/0 PL | | | 5 |
| VW-ATL-23 | Helicopter Technology | | 2/0/0/0 | 2/0/0/0 PL | | 5 |
| VW-ATL-24 | Aircraft Design | | | 4/0/0/0 PL | | 5 |

| Number of module | Name of module | 1st semester V/Ü/S/P | 2nd semester V/Ü/S/P | 3rd semester V/Ü/S/P | 4th semester (M) | CP |
|---|---|---|---|---|---|---|
| VW-ATL-25 | Research Task in Air Transport and Logistics | | | 0/0/3/0 PL | | 5 |
| VW-ATL-30 | Methods in Data Analytics | 2/2/0/0 PL | | | | 5 |
| VW-ATL-31 | Theoretical Multivariate Statistics | 2/2/0/0 PL | | | | 5 |
| VW-ATL-32a | Cargo Handling and Intermodal Transportation | | | 2/2/0/0 PL | | 5 |
| Modules of up to 20 credit points can be selected. | | | | | | |
| VW-ATL-50 | Advanced Methods in Data Analytics | | 2/2/0/0 PL | | | 5 |
| VW-ATL-51 | Applied Multivariate Statistics | | 2/2/0/0 PL | | | 5 |
| VW-ATL-52 | Data-Driven Multivariate Statistics | | 2/0/0/0 PL | | | 5 |
| VW-ATL-53 | Management of Public Transport Systems and Services | | 2/2/0/0 PL | | | 5 |
| VW-ATL-54 | Applied Computer Sciences | | | 2/2/0/0 PL | | 5 |
| VW-ATL-55 | Advanced Theory of Air Transportation Systems and Simulation* | | 2/2/0/0 PL | | | 5 |
| VW-ATL-56 | Advanced Theory of Transportation Systems* | 3/3/0/0 PL | 2/2/0/0 PL | | | 15 |
| VW-ATL-61 | Transportation Telematics Networks | 3/1/0/0 PL | | | | 5 |
| VW-ATL-63 | Satellite-based and Position-based Communication | | 2/1/0/1 PL | | | 5 |
| VW-ATL-64a | Sensor Technology in Transport Systems | | | 2/2/0/0 PL | | 5 |
| VW-ATL-71 | Transport and Infrastructure Planning | | 3/1/0/0 PVL, PL | | | 5 |
| VW-ATL-72 | Basics of traffic modeling | | 2/1/0/0 PL | | | 5 |
| VW-ATL-74 | Traffic and Transportation Psychology | | 2/0/2/0 2xPL | | | 5 |

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Valid from: **Summer semester 2025**. Status: **16.12.2024**.

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| Number of module | Name of module | 1st semester V/Ü/S/P | 2nd semester V/Ü/S/P | 3rd semester V/Ü/S/P | 4th semester (M) | CP |
|---|---|---|---|---|---|---|
| VW-ATL-75 | Transport Network Optimization with Emerging Data for Ethical and Sustainable Applications | | | 3/0/0/0 PL | | 5 |
| VW-ATL-81 | Quality and RAMS Management | | 2/2/0/0 PL | | | 5 |
| VW-ATL-82 | Market-orientated design of rail freight and passenger transport | | | 3/0/1/0 PL | | 5 |
| VW-ATL-91 | Vocational Internship in Air Transport and Logistics | | | At least 8 weeks internship | | 5 |
| | | | | | Master thesis | 25 |
| | | | | | Colloquium | 5 |
| **CP** | | **30** | **30** | **30** | **30** | **120** |

| | |
|---|---|
| * | combination restricted |
| SWS | Semester hours per week |
| M | Mobility window according to § 6 paragraph 1 sentence 4 study regulations |
| CP | Credit points |
| V | Lecture |
| Ü | Exercise |
| S | Seminar |
| P | Practical course |
| PVL | Preliminary examination |
| PL | Examination(s) |

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