

**Anlage 2:****Studienablaufplan**

mit Art und Umfang der Lehrveranstaltungen in SWS sowie erforderlichen Leistungen, deren Art, Umfang und Ausgestaltung den Modulbeschreibungen zu entnehmen sind

| Modulnummer                                                            | Modulname                                             | 1. Semester          | 2. Semester        | 3. Semester       | 4. Semester (M) | LP |
|------------------------------------------------------------------------|-------------------------------------------------------|----------------------|--------------------|-------------------|-----------------|----|
|                                                                        |                                                       | V/Ü/S/P              | V/Ü/S/P            | V/Ü/S/P           |                 |    |
| Pflichtbereich                                                         |                                                       |                      |                    |                   |                 |    |
| VW-ATL-01                                                              | Operations Research and Logistics                     | 2/2/0/0<br>PL        |                    |                   |                 | 5  |
| VW-ATL-02                                                              | Material Flow Analysis and Optimization               | 2/2/0/0<br>PL        |                    |                   |                 | 5  |
| VW-ATL-03                                                              | Methods in Transportation Econometrics and Statistics | 2/2/0/0<br>PL        |                    |                   |                 | 5  |
| VW-ATL-04                                                              | Decision Making in Enterprise Logistics               |                      | 2/2/0/0<br>PL      |                   |                 | 5  |
| VW-ATL-05                                                              | Flight Performance and Aerodynamics                   | 7/1/0/0,5<br>PVL, PL |                    |                   |                 | 10 |
| VW-ATL-06                                                              | Flight Planning and Aircraft Operations               |                      |                    | 4/0,5/0/0,5<br>PL |                 | 5  |
| VW-ATL-07                                                              | Air Traffic and Airport Operations                    |                      | 6/2/0/0<br>PL      |                   |                 | 10 |
| VW-ATL-08                                                              | CNS and tactical ATM                                  |                      |                    | 6/1/0/1<br>PL     |                 | 10 |
| Wahlpflichtbereich                                                     |                                                       |                      |                    |                   |                 |    |
| Es sind insgesamt Module im Umfang von 35 Leistungspunkten zu wählen.  |                                                       |                      |                    |                   |                 |    |
| Es sind Module im Umfang von mindestens 15 Leistungspunkten zu wählen. |                                                       |                      |                    |                   |                 |    |
| VW-ATL-20                                                              | Safety and Airline Management                         |                      | 3/1/0/0<br>PL      |                   |                 | 5  |
| VW-ATL-21a                                                             | Terminal Operations                                   |                      | 3/1/0/0<br>PVL, PL |                   |                 | 5  |
| VW-ATL-22                                                              | Aircraft Engines                                      |                      | 2/1/0/0<br>PL      |                   |                 | 5  |
| VW-ATL-23                                                              | Helicopter Technology                                 |                      | 2/0/0/0            | 2/0/0/0<br>PL     |                 | 5  |
| VW-ATL-24                                                              | Aircraft Design                                       |                      |                    | 4/0/0/0<br>PL     |                 | 5  |

| Modulnummer                                                               | Modulname                                                                                  | 1. Semester   | 2. Semester   | 3. Semester   | 4. Semester (M) | LP |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------|---------------|---------------|-----------------|----|
|                                                                           |                                                                                            | V/Ü/S/P       | V/Ü/S/P       | V/Ü/S/P       |                 |    |
| VW-ATL-25                                                                 | Research Task in Air Transport and Logistics                                               |               |               | 0/0/3/0<br>PL |                 | 5  |
| VW-ATL-30                                                                 | Methods in Data Analytics                                                                  | 2/2/0/0<br>PL |               |               |                 | 5  |
| VW-ATL-31a                                                                | Theoretical Multivariate Statistics                                                        | 2/2/0/0<br>PL |               |               |                 | 5  |
| VW-ATL-32b                                                                | Cargo Handling and Intermodal Transportation                                               |               |               | 2/2/0/0<br>PL |                 | 5  |
| Es können Module im Umfang von bis zu 20 Leistungspunkten gewählt werden. |                                                                                            |               |               |               |                 |    |
| VW-ATL-50a                                                                | Advanced Methods in Data Analytics                                                         |               | 2/2/0/0<br>PL |               |                 | 5  |
| VW-ATL-51a                                                                | Applied Multivariate Statistics                                                            |               | 2/2/0/0<br>PL |               |                 | 5  |
| VW-ATL-52b                                                                | Data-Driven Multivariate Statistics                                                        |               | 2/0/0/0<br>PL |               |                 | 5  |
| VW-ATL-53a                                                                | Management of Public Transport Systems and Services                                        |               | 2/2/0/0<br>PL |               |                 | 5  |
| VW-ATL-61                                                                 | Transportation Telematics Networks                                                         | 3/1/0/0<br>PL |               |               |                 | 5  |
| <del>VW-ATL-62</del>                                                      | <del>Theory of Communication Traffic and Information Transfer Security</del>               |               | 2/2/0/0<br>PL |               |                 | 5  |
| VW-ATL-63                                                                 | Satellite-based and Position-based Communication                                           |               | 2/1/0/1<br>PL |               |                 | 5  |
| VW-ATL-64a                                                                | Sensor Technology in Transport Systems                                                     |               |               | 2/2/0/0<br>PL |                 | 5  |
| VW-ATL-71a                                                                | Mobility System Planning and Research                                                      | 3/1/0/0<br>PL |               |               |                 | 5  |
| VW-ATL-72a                                                                | Agent-based Modelling in Transportation                                                    |               | 2/1/0/0<br>PL |               |                 | 5  |
| VW-ATL-74a                                                                | Human Behavior and Environmental Effects in Transportation                                 |               |               | 4/0/0/0<br>PL |                 | 5  |
| VW-ATL-75                                                                 | Transport Network Optimization with Emerging Data for Ethical and Sustainable Applications |               | 3/0/0/0<br>PL |               |                 | 5  |

| Modulnummer | Modulname                                                           | 1. Semester   | 2. Semester   | 3. Semester                   | 4. Semester (M) | LP         |
|-------------|---------------------------------------------------------------------|---------------|---------------|-------------------------------|-----------------|------------|
|             |                                                                     | V/Ü/S/P       | V/Ü/S/P       | V/Ü/S/P                       |                 |            |
| VW-ATL-76   | Aviation Economics and research-based Consulting                    | 1/0/1/0<br>PL |               |                               |                 | 5          |
| VW-ATL-77   | Data and Models in Transport Planning                               |               |               | 2/2/0/0<br>PL                 |                 | 5          |
| VW-ATL-81   | Quality and RAMS Management                                         |               | 2/2/0/0<br>PL |                               |                 | 5          |
| VW-ATL-82b  | Market-oriented design of rail freight and passenger transportation |               |               | 3/0/1/0<br>PL                 |                 | 5          |
| VW-ATL-83   | Advanced Modelling in Railway Transport Science                     |               |               | 2/0/2/0<br>PL                 |                 | 5          |
| VW-ATL-91   | Vocational Internship in Air Transport and Logistics                |               |               | Mindestens 4 Wochen Praktikum |                 | 5          |
|             |                                                                     |               |               |                               | Abschlussarbeit | 25         |
|             |                                                                     |               |               |                               | Kolloquium      | 5          |
| <b>LP</b>   |                                                                     | <b>30</b>     | <b>30</b>     | <b>30</b>                     | <b>30</b>       | <b>120</b> |

- \* kombinationsbeschränkt
- SWS Semesterwochenstunden
- M Mobilitätsfenster gemäß § 6 Absatz 1 Satz 4 Studienordnung
- LP Leistungspunkte
- V Vorlesung
- Ü Übung
- S Seminar
- P Praktikum
- PVL Prüfungsvorleistung
- PL Prüfungsleistung(en)