### Anhang B.

**Beispielstudienplan Bachelor-Studiengang Cybersecurity (English)**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
<th>Optional Course</th>
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</thead>
</table>
| 1        | Programming 1  
(9 CP) | Mathematics for Computer Scientists 1  
(9 CP) | Foundations of Cybersecurity 1  
(9 CP) | Mandatory Elective  
(e.g., Introduction to Python, 3 CP) |
| 2        | Programming 2  
(9 CP) | Mathematics for Computer Scientists 2  
(9 CP) | Foundations of Cybersecurity 2  
(6 CP) | Language Course  
(6 CP) |
| 3        | Cybersecurity Lab (6 CP) | Introduction to Theoretical Computer Science  
(9 CP) | Fundamentals of Data Structures and Algorithms  
(6 CP) | Cybersecurity Proseminar  
(5 CP) |
| 4        | Cryptography  
(9 CP) | System Architecture  
(9 CP) | Cybersecurity Complementary Lecture  
(6 CP) | Statistics Lab (6 CP) |
|          |         |        |        | "Software Engineering Lab" (9 CP) offered during the break between summer and winter term |
| 5        | Advanced Lecture Cybersecurity  
(6 CP) | Elements of Machine Learning  
(6 CP) | Cybersecurity Complementary Lecture  
(6 CP) | Cybersecurity Seminar  
(7 CP) |
| 6        | Advanced Lecture Cybersecurity  
(6 CP) | Bachelor's Thesis  
(12 CP) | Bachelor's Seminar  
(9 CP) | Mandatory Elective  
(e.g., language course, 3 CP) |