

**List of Courses taught in English**

Department of Mathematics

Academic Year 2019 / 20

**Mathematics (Bachelor)**
**Winter Semester 2019 / 20**

| Course No. | Sem. | Title   | Duration | Type | ECTS Credits | Lecturer(s)                | Language(s) of Instruction |
|------------|------|---|----------|------|--------------|----------------------------|----------------------------|
| 405.900    | WS19 | <a href="#">Fundamental Statistical Methods in Actuarial Data Science</a> | 2        | L    | 3            | Hudec, Missbauer, Schlögel | English                    |

**Summer Semester 2020**

| Course No. | Sem. | Title  | Duration | Type | ECTS Credits | Lecturer(s)      | Language(s) of Instruction |
|------------|------|--|----------|------|--------------|------------------|----------------------------|
| 405.908    | SS20 | <a href="#">Risk Management in Insurance</a> | 2        | L    | 3            | Herold, Schradin | English                    |

**Mathematics (Master)**
**Winter Semester 2019 / 20**

| Course No. | Sem. | Title   | Duration | Type | ECTS Credits | Lecturer(s)                | Language(s) of Instruction |
|------------|------|---|----------|------|--------------|----------------------------|----------------------------|
| 405.900    | WS19 | <a href="#">Fundamental Statistical Methods in Actuarial Data Science</a> | 2        | L    | 3            | Hudec, Missbauer, Schlögel | English                    |
| 405.550    | WS19 | <a href="#">Model theory</a>  | 2        | UV   | 3            | Glivicky                   | English                    |

**Summer Semester 2020**

| Course No. | Sem. | Title  | Duration | Type | ECTS Credits | Lecturer(s)      | Language(s) of Instruction |
|------------|------|--|----------|------|--------------|------------------|----------------------------|
| 405.908    | SS20 | <a href="#">Risk Management in Insurance</a> | 2        | L    | 3            | Herold, Schradin | English                    |
| 405.555    | SS20 | <a href="#">Computability theory and</a>     | 2        | UV   | 3            | Glivicky         | English                    |

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Department of Mathematics

Academic Year 2019 / 20

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  | <a href="#">Hilbert's 10th problem</a> |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

**Data Science (Master)**
**Winter Semester 2019 / 20**

| Course No. | Sem. | Title                                   | Duration | Type | ECTS Credits | Lecturer(s) | Language(s) of Instruction |
|------------|------|---|----------|------|--------------|-------------|----------------------------|
| 405.958    | WS19 | <a href="#">Data Mining</a>             | 2        | L    | 3            | Borgelt     | English                    |
| 405.983    | WS19 | <a href="#">Frequent Pattern Mining</a> | 3        | L    | 3            | Borgelt     | English                    |
| 405.984    | WS19 | Frequent Pattern Mining                 | 2        | UE   | 3            | Borgelt     | English                    |
| 405.970    | WS19 | <a href="#">Topics in Data Science</a>  | 1        | SE   | 2            | Bathke      | English                    |

**Summer Semester 2020**

| Course No. | Sem. | Title  | Duration | Type | ECTS Credits | Lecturer(s) | Language(s) of Instruction |
|------------|------|--|----------|------|--------------|-------------|----------------------------|
| 405.974    | SS20 | <a href="#">Artificial Neural Networks and Deep Learning</a>                 | 3        | L    | 3            | Borgelt     | English                    |
| 405.974    | SS20 | Artificial Neural Networks and Deep Learning                                 | 2        | UE   | 3            | Borgelt     | English                    |
| 405.977    | SS20 | <a href="#">Evolutionary Algorithms and Swarm-based Optimization Methods</a> | 2        | L    | 2            | Borgelt     | English                    |
| 405.978    | SS20 | Evolutionary Algorithms and Swarm-based Optimization Methods                 | 2        | UE   | 3            | Borgelt     | English                    |

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Department of Mathematics

Academic Year 2019 / 20

|         |      |  |   |    |   |         |         |
|---------|------|--|---|----|---|---------|---------|
| 405.982 | SS20 | <a href="#">Advanced Data Challenge</a>        | 2 | SE | 4 | Borgelt | English |
| 405.972 | SS20 | <a href="#">Special Topics in Data Science</a> | 1 | SE | 2 | Bathke  | English |