Schematic Study Plan for Robotics and Intelligent Systems

BSc **Robotics and Intelligent Systems** (180 CP)

Area						

Year 3

| Bachelor Thesis / Seminar (m, 15 CP) | | **Big Questions** (me, 5 CP) | **Big Questions** (me, 2.5 CP) |

Study Abroad Option (22.5 CP)

| Specialization (me, 3 x 5 CP) | **Community Impact Project** (m, 5 CP) | **Big Questions** (me, 2.5 CP) |

Internship /Start-Up (m, 15 CP)

Year 2

| CORE* Machine Learning (m, 5 CP) | CORE* RIS Lab (me, 5 CP) | CORE Automation (me, 5 CP) | CORE Artificial Intelligence (m, 5 CP) | CORE RIS Project (m, 5 CP) | Methods/Skills Numerical Methods ..... Discrete Mathematics (me, 5 CP) | Language (me, 2.5 CP) |
| CORE* Robotics (m, 5 CP) | | CORE Embedded Systems (me, 5 CP) | CORE Control Systems (me, 5 CP) | CORE Computer Vision (me, 5 CP) | Methods/Skills Probability and Random Processes (m, 5 CP) | Language (me, 2.5 CP) |

Year 1

| CHOICE* Introduction to Robotics and Intelligent Systems (m, 7.5 CP) | CHOICE Algorithms and Data Structures (m, 7.5 CP) | CHOICE Introduction to Computer Science (me, 7.5 CP) | Methods/Skills Calculus and Elements of Linear Algebra II (m, 5 CP) | Language (me, 2.5 CP) |
| CHOICE* Programming in C and C++ (m, 7.5 CP) | CHOICE General Electrical Engineering I (m, 7.5 CP) | CHOICE Classical Physics (m, 7.5 CP) | Methods/Skills Calculus and Elements of Linear Algebra I (m, 5 CP) | Language (me, 2.5 CP) |

Area

| CHOICE / CORE 90 CP | JACOBS TRACK 45 CP |

* mandatory for minor students
m = mandatory
me = mandatory elective