NUS School of Computing
Master of Computing - Artificial Intelligence Specialisation
(with effect from January 2020)

*Important Note:*
- Courses in this list may be subject to change as decided by the Departments.
- Courses that are in both the AI Core and AI Elective lists can be counted either as part of the Core or Elective requirement, but not both.

**Preclusion:**
Please take note that the following courses are precluded from each other:

<table>
<thead>
<tr>
<th>Core Course</th>
<th>Elective Course</th>
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<tbody>
<tr>
<td>CS5461</td>
<td>CS4261</td>
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<td>CS4269</td>
<td>CS5469</td>
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<td>CS4277</td>
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<td>CS4278</td>
<td>CS5478</td>
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<tr>
<td>CS5446</td>
<td>CS4246</td>
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**AI Specialisation Core Courses List**
- CS5446 AI Planning and Decision Making
- CS5340 Uncertainty Modelling in AI
- Choose **ONE:**
  - CS5339 Theory and Algorithms for Machine Learning, OR
  - CS5242 Neural Networks and Deep Learning, OR
  - IS5152 Data-Driven Decision Making

**AI Specialisation Elective Courses List**
- CS5339 Theory and Algorithms for Machine Learning
- CS5242 Neural Networks and Deep Learning
- IS5152 Data-Driven Decision Making
- CS4243 Computer Vision and Pattern Recognition
- CS4244 Knowledge Representation and Reasoning
- CS4248 Natural Language Processing
- CS5215 Constraint Programming
- CS5228 Knowledge Discovery and Data Mining
- CS5246 Text Mining
- CS5260 Neural Networks and Deep Learning II
- CS5469 Fundamentals of Logic in Computer Science
- CS5477 3D Computer Vision
- CS5478 Intelligent Robots: Algorithms and Systems
- CS5461 Algorithmic Mechanism Design
- CS6207 Advanced Natural Language Processing
- CS6208 Advanced Topics in Artificial Intelligence
- CS6216 Advanced Topics in Machine Learning
- CS6244 Robot Motion Planning and Control
- IS4242 Intelligent Systems - Tools, Techniques, and Applications
- IS5006 Human-Centred Intelligent Systems
- BT4014 Analytics Driven Design of Adaptive Systems
- BT4240 Machine Learning for Predictive Data Analytics