M.S. IN ARTIFICIAL INTELLIGENCE

Name: __________________________________ Z#: __________________ Advisor: ____________________________

Date of Admission: _____________ GPA: _____

Prerequisites
List deficiency courses assigned by the Admission Committee, if applicable:

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<tr>
<th>Grade</th>
<th>Semester</th>
<th>Course Number/Name</th>
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Degree Requirements
The Master of Science with Major in Artificial Intelligence program offers both thesis and non-thesis options. Both options require a minimum of 30 credits.

Core Courses/ Students are required to take 3 Core Courses

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<tr>
<th>Grade</th>
<th>Semester</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>CAP 5625 Computational Foundations of Artificial Intelligence</td>
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<td></td>
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<td>CAP 6635 Artificial Intelligence</td>
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<tr>
<td></td>
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<td>CAP 6673 Data Mining and Machine Learning</td>
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Students pursuing the non-thesis option are required to take 7 elective courses from the groups below. Students pursuing the thesis option are required to take 5 elective courses from the groups below and 6 thesis credits. Both non-thesis and thesis options allow up to 3 elective courses to be substituted with any relevant graduate courses with prior approval from the advisor

Vision

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<tr>
<th>Grade</th>
<th>Semester</th>
<th>Course Number/Name</th>
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<tbody>
<tr>
<td></td>
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<td>CAP 6411 Foundations of Vision</td>
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<td>CAP 6415 Computer Vision</td>
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<td>CAP 6618 Machine Learning for Computer Vision</td>
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<td>COP 6728 Visual Information Retrieval</td>
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### Data Analytics and Algorithms

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<th>Semester</th>
<th>Course Number/Name</th>
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<tr>
<td></td>
<td></td>
<td>CAP 5768  Introduction to Data Science</td>
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<td>CAP 6315  Social Networks and Big Data Analytics</td>
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<td>CAP 6546  Data Mining for Bioinformatics</td>
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<td>CAP 6780  Big Data Analytics with Hadoop</td>
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<td>CEN 6405  Computer Performance Modeling</td>
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<td>COT 6405  Analysis of Algorithms</td>
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### Knowledge Management and Reasoning

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<th>Semester</th>
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<tr>
<td></td>
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<td>CAP 6640  Natural Language Processing</td>
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<td>CAP 6776  Information Retrieval</td>
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<td>CAP 6777  Web Mining</td>
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<td>COP 5859  Semantic Web Programming</td>
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### Machine Learning

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<tr>
<td></td>
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<td>CAP 5615  Introduction to Neural Networks</td>
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<td>CAP 6512  Evolutionary Computing</td>
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<td>CAP 6617  Sparse Learning</td>
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<td>CAP 6619  Deep Learning</td>
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<td>COP 6778  Advanced Data Mining and Machine Learning</td>
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### Applications

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<tr>
<td></td>
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<td>EEL 5661  Robotic Applications</td>
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<td>CAP 6683  Artificial Intelligence in Medicine and Healthcare</td>
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<td>CAP 6807  Computational Advertising and Real-time Data Analytics</td>
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### Additional Elective Allowance

*Students may substitute three elective courses with any relevant graduate courses with prior approval from the advisor.*

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SUMMARY OF RULES FOR MS IN ARTIFICIAL INTELLIGENCE DEGREE

Minimum Degree Requirements:

Master of Science with Major in Artificial Intelligence, Thesis Option (30 credits)
1. Requires a total of 30 credits: 6 credits of orally defended written thesis and 24 credits of approved coursework
2. Students can take a maximum of 3 credits of independent study to satisfy the 24 credits of coursework
3. At least one-half of the credits must be at the 6000 level or above
4. Must have a GPA of 3.0 (out of 4.0) or better.
5. All courses in the degree program must be completed with a grade of "C" or better.

Thesis Committee (for Thesis Option)

• Composed of at least three faculty members
• At least two members from CEECS Department
• Chair from the CEECS Department

Master of Science with Major in Artificial Intelligence, Non-Thesis Option (30 credits)
1. Requires 30 credits of approved coursework
2. Students can take a maximum of 3 credits of independent study to satisfy the minimum of 30 credits of coursework
3. At least one-half of the credits must be at the 6000 level or above
4. Must have a GPA of 3.0 (out of 4.0) or better.
5. All courses in the degree program must be completed with a grade of "C" or better.

Admission to Candidacy/Online Plan of Study

Students must apply for candidacy as soon as they are eligible. Students should prepare, in consultation with a graduate advisor, an Online Plan of Study i.e. the list of courses, for completing their degree requirements. All courses must be approved by the student’s advisor.

A student is eligible to apply for candidacy when:

1. A minimum of 9 credit hours as a graduate student have been completed.
2. A minimum of 3.0 GPA in all courses attempted as a graduate student has been maintained.

Normally no more than 15 credit hours of work completed before submitting your Plan of Study will be accepted toward degree program. Students working toward the MS (thesis option) degree may not register for thesis until their Plan of Study has been approved.

Student Signature: __________________________________________ Date: ________________