

Certificates that Apply to CS MS Degrees 2023-24

The certificates that can be used towards completing degree requirements are placed in three categories, Core, Major Electives and Flexible Electives. The Core certificates include the courses needed to fulfill the core requirements for the degree. Major Electives (ME) certificates may be used to fulfill major electives requirements. One or two certificates from the ME lists may be used to fulfill these requirements. Only one certificate may be used from the Flexible Requirements list, given the limited structure of this category.

A student may complete two or three certificates and then complete a degree course requirement by taking a small number of additional courses.

† Required * Recommended

MSAIMLA	<p>Core</p> <ul style="list-style-type: none"> • Applied Artificial Intelligence and Machine Learning † <p>Major Electives</p> <ul style="list-style-type: none"> • Big Data Analytics • Computer Science Foundations • Data Science Foundations _* • Human-Computer Interaction and User Experience Theory and Frontiers • Machine Learning for Data Science _* <p>Flexible Electives (optionally choose one)</p> <ul style="list-style-type: none"> • Healthcare Informatics • Human-Computer Interaction and User Experience Research and Design • Information Systems • Web Application Development
MSAIMLC	<p>Core</p> <ul style="list-style-type: none"> • Computational Artificial Intelligence and Machine Learning † <p>Major Electives</p> <ul style="list-style-type: none"> • Applied Artificial Intelligence and Machine Learning • Big Data Analytics • Computer Science Theory and Practice _* • Data Science Foundations • Machine Learning for Data Science _* <p>Flexible Electives (optionally choose one)</p> <ul style="list-style-type: none"> • Computer Science Foundations • Computer Security and Privacy • Healthcare Informatics • Human-Computer Interaction and User Experience Research and Design • Human-Computer Interaction and User Experience Theory and Frontiers • Information Systems • Software Architecture • Software Management • Web Application Development

MSCS	<p>Core</p> <ul style="list-style-type: none"> • Computer Science Theory and Practice † <p>Major Electives</p> <ul style="list-style-type: none"> • Computational Artificial Intelligence and Machine Learning • Computer Security and Privacy • Software Architecture • Software Management <p>Flexible Electives (optionally choose one)</p> <ul style="list-style-type: none"> • Applied Artificial Intelligence and Machine Learning • Big Data Analytics • Computer Science Foundations • Data Science Foundations • Healthcare Informatics • Human-Computer Interaction and User Experience Research and Design • Human-Computer Interaction and User Experience Theory and Frontiers • Machine Learning for Data Science • Web Application Development
MSCSP	<p>Core</p> <ul style="list-style-type: none"> • Computer Security and Privacy † <p>Major Electives</p> <ul style="list-style-type: none"> • Computational Artificial Intelligence and Machine Learning * • Computer Science Theory and Practice • Software Architecture * <p>Flexible Electives (optionally choose one)</p> <ul style="list-style-type: none"> • Applied Artificial Intelligence and Machine Learning • Big Data Analytics • Computer Science Foundations • Data Science Foundations • Healthcare Informatics • Human-Computer Interaction and User Experience Research and Design • Human-Computer Interaction and User Experience Theory and Frontiers • Machine Learning for Data Science • Software Management
MSSE	<p>Core</p> <ul style="list-style-type: none"> • Software Architecture † • Software Management † <p>Major Electives</p> <ul style="list-style-type: none"> • Computer Science Theory and Practice * <p>Flexible Electives (optionally choose one)</p> <ul style="list-style-type: none"> • Applied Artificial Intelligence and Machine Learning • Big Data Analytics • Computational Artificial Intelligence and Machine Learning • Computer Science Foundations • Computer Security and Privacy • Data Science Foundations • Healthcare Informatics

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| | <ul style="list-style-type: none">• Human-Computer Interaction and User Experience Research and Design• Human-Computer Interaction and User Experience Theory and Frontiers• Machine Learning for Data Science• Web Application Development |
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