Master of Science Degree in Systems Engineering Course of Study Requirements Missouri University of Science and Technology (Missouri S&T)

	Non-Thesis	Thesis
Core Courses Required for all students	18 credit hours	18 credit hours
Graduate Research Course SYS ENG 6099	0 credit hours	6 credit hours
Systems Engineering Electives (Approved by Advisor)	12 credit hours	12 credit hours
Total Credit Hours Required	30 credit hours	36 credit hours

Required Non-Thesis Core Courses

SYSE 5101 - System Engineering and Analysis SYSE 6196 - Systems Engineering Capstone

SYSE 6542 - Model Based Systems Engineering

SYSE 6103 - Systems Life Cycle Costing

SYSE 6102 – Information Based Design

SYSE 6104 - Systems Architecting

Required Thesis Core Courses

SYSE 6412 - Mathematical Programming

SYSE 6110 - Optimization Under Uncertainty

SYSE 5101 - System Engineering and Analysis

SYSE 6104 - Systems Architecting

SYSE 6542 - Model Based Systems Engineering

SYSE 6196 - Systems Engineering Capstone

- With the advisor's approval, thesis students can apply to the Systems Engineering Graduate Certificate to be included in their MS program.
- Non-Thesis students can choose a certificate area depending on their interests. (certificate rules apply) Courses can be chosen from more than one area. Students must apply separately for each graduate certificate.
- Students must submit a typed and signed Form 1 to Theresa Busch tbusch@mst.edu (A-K) or Karen G. Swope swopekg@mst.edu (L-Z) by advising week of their first semester. Forms can be submitted in person or scanned and emailed.

Thesis students:

- Form 1 must be on file before students register for Graduate Research SYS ENG 6099.
- Must take two 6000-level courses (in addition to 6 hours SYS ENG 6099).
- Form 1 must be signed by student, Advisor, & committee members in the signature section.

Non-Thesis students:

- Must take three 6000-level courses.
- Form 1 must be signed by student & Advisor in the signature section.
- If you take courses that vary from your Form 1, you must file a Form 1A prior to enrolling in the course.
- Students must meet all requirements for graduation as specified in the Graduate Catalog for Systems Engineering.

Staff Support Information

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