

# SOFTWARE ENGINEERING

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## Degree Requirements

### Master of Software Engineering (M.S.E.)

Requirements listed here are in addition to Graduate Council policies listed under GCAC-700 Professional Degree Policies (<https://gradschool.psu.edu/graduate-education-policies/>).

The Master of Software Engineering degree is conferred upon students who earn a minimum of 36 credits of course work while maintaining an average grade-point average of 3.0 or better in all course work, including at least 18 credits at the 500 or 800 level (with at least 6 credits at the 500 level). The program curriculum includes 18 credits of core courses, 12 credits of electives, and 6 credits of capstone experience.

Code	Title	Credits
<b>Required Courses</b>		
SWENG 505	Software Project Management	3
SWENG 581	Software Testing	3
SWENG 586	Requirements Engineering	3
SWENG 587	Software Systems Architecture	3
SWENG 837	Software System Design	3
SWENG 861	Software Construction	3
<b>Electives</b>		
An additional 12 credits of elective courses must be selected from a list of approved elective courses maintained by the graduate program office.		12
<b>Culminating Experience</b>		
SWENG 894	Capstone Experience	6
<b>Total Credits</b>		<b>36</b>

All students will complete their program of study with a capstone project that provides students with an opportunity to apply their knowledge of the software engineering theories, methods, processes, and tools learned throughout their program, in a culminating and summative experience. Students complete the capstone project while enrolled in SWENG 894.