

Information Systems – Master of Software Engineering in Scalable Systems
Accelerated Master’s Program

| Eligibility | | |
|---|-------------------------------|---|
| Academic requirement | | <ul style="list-style-type: none"> • CMU undergraduate students the Information Systems program • Strong academic background • Most undergraduate requirements completed |
| Apply Junior Year | | To be eligible for the IS – MSE-SS Program, candidates must apply in the Fall semester of their junior year and will begin taking courses in the Fall of their senior year. |
| Standard Application Materials | | |
| 1. | Application Deadline | December 10 th , 11:59 p.m. EST |
| 2. | Application | Apply online: https://mse.isri.cmu.edu/applicants/mse-amp.html |
| 3. | 2 Letters of Recommendation | At least one (1) of your recommenders should know you in a professional setting (full-time employment, internship, part-time employment, research, non-academic extracurricular activity, etc.) You may opt to have up to three (3) recommendations submitted in support of your application. |
| 4. | Official Transcript(s) | Your official CMU transcript must be requested through the HUB and delivered to the MSE program. If applicable, official transcript from all colleges or universities attended, regardless of whether credit or degree was obtained. |
| 5. | Statement of Purpose | An essay describing your interest in software engineering and how your experience and proposed study will help you reach your career goals. |
| 6. | Resume | A current resume with your education information, work experience (including internships and hourly positions) and extracurricular information |
| 7. | GRE/GMAT | Either the GRE or GMAT exam is required of all IS – MSE-SS applicants |
| Additional AMP Application Requirements | | |
| 8. | Signed AMP Form | Completed Undergraduate Course Requirements form (AMP form) with advisor’s signature |
| 9. | Required Interview | Interviews are required. You must Contact the Program Manager by email to schedule your interview. Schedule as soon as possible. (Please plan to have your interview completed before winter break – schedule ahead!) Email: karenk@andrew.cmu.edu |
| 10. | Bachelor’s Degree Requirement | The completed bachelor’s degree requirement is waived for AMP applicants |

| Financial Aid Information | |
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| Financial aid for your junior and senior year (first years taking MSE courses) will continue as it has in prior years | |
| Undergraduate students do not qualify for MSE program financial aid | |
| Students are eligible for aid in the final two semesters of the IS – MSE-SS (after having completed a bachelor’s degree) | |

| MSE Degree Requirements | |
|---------------------------------------|--|
| Units required | 153 units are required to complete the MSE-SS program |
| Undergrad units toward the MSE degree | Up to 48 units of undergraduate classes completed while enrolled in the MSE-SS program may be transferred and counted toward the required 153 units. Courses should be upper division and relevant to the content of the MSE-SS degree. A grade of B or better must be earned in order to count the units toward the MSE-SS degree. |
| Units remaining | Students able to transfer the total 48 units will complete the remaining 108 MSE-SS units |
| | Some MSE-SS courses may fulfill undergraduate requirements. You should discuss this with your undergraduate advisor. |
| Prerequisite Coursework | Prerequisite courses in programming, data structures and the foundations of software engineering must be successfully completed prior to enrolling in the program. Prerequisite course grades should be a “B” or higher. Students who do not meet the prerequisite will not be eligible to enroll. |

Below is a Sample Schedule – Your schedule may vary

| Senior | |
|--|---|
| Fall | Spring |
| 95-422 Managing Digital Transformation (9 units) | Innovation and Entrepreneurship Requirement (9-12 units) |
| Concentration research (12 units) | 17-636 (Mini-3) Applied Distributed Systems (6 units) |
| Gen Ed (9 units) | 17-646 (Mini-4) DevOps and Continuous Integration (6 units) |
| 17-611 (Mini-1) Statistics for Decision Making (6 units) | 17-635 (Mini-3) Software Architectures (6 units) |
| 17-626 (Mini-2) Requirements for Info Systems (6 units) | 17-643 (Mini-4) Quality Management (6 units) |
| 17-623 (Mini-2) Quality Assurance (6 units) | 17-647 (Mini-4) Data Intensive and Scalable Systems (6 units) |
| Total: 45-48 units | Total: 45-48 units |
| Summer following Senior Year | |
| 17-667 Internship for Software Engineers (3 units) | |
| 5th Year Master's | |
| Fall | Spring |
| 17-601 Communications for Software Engineers I (3 units) | 17-602 Communications for Software Engineers II (3 units) |
| 17-612 (Mini-1) Business & Marketing Strategy (6 units) | 17-675 Software Engineering Practicum (36 units) |
| 17-614 (Mini-1) Formal Methods (6 units) | SE Free Elective (12 units) |
| 17-615 (Mini-1) Data Structures and Algorithms (6 units) | Total: 51 units |
| 17-625 (Mini-2) Design Patterns and API Design (6 units) | |
| 17-622 (Mini-2) Agile Methods (6 units) | |
| 17-632 (Mini-2) Software Project Management (6 units) | |
| SE Free Elective (12 units) | |
| Total: 51 units | |

Contact Information:

mse-applications@andrew.cmu.edu

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Accelerated Master’s Program (AMP) Undergraduate Course Requirements Form

**This form is required as part of the application for admission.
 Please upload this completed form to your online application.**

All students applying to the AMP must complete this form with their undergraduate advisor’s signature, listing their undergraduate degree requirements (specific courses that are required, electives AND any other units required to complete their bachelor’s degree) that are remaining in their junior and senior years.

Carnegie Mellon undergraduate students are eligible to apply for admission to the AMP only if the student will have the ability to enroll in the necessary number of graduate courses during their senior year:

- AMP: 48 UNITS OR MORE MUST BE TAKEN IN THE FINAL TWO SEMESTERS OF UNDERGRADUATE PROGRAM

Carnegie Mellon undergraduate students are eligible to “double count” certain undergraduate coursework towards their master’s degree requirements to a maximum of 48 units.

All graduate courses taken during their senior year must have earned grades of B- or better.

Student Name: _____

Student Signature: _____ Date: _____

Number of units required to complete bachelor’s degree: _____

Please legibly list the remaining required courses you need to take in order to complete your undergraduate degree, what semester you plan to take them, and how many units you will earn for each course:

Required Courses Remaining

| Course Number | Course Title | Semester | Units |
|---------------|--------------|----------|-------|
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Advisor Name: _____

Advisor Signature: _____ Date: _____