#  Carnegie Mellon, Master of Software Engineering word markMaster of Software Engineering Programs logo

Information Systems – Master of Software Engineering in Scalable Systems

**Accelerated Master’s Program**

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| **Eligibility** |
| Academic requirement | * CMU undergraduate students the Information Systems program
* Strong academic background
* Most undergraduate requirements completed
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| 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 10th, 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: mpawlak@andrew.cmu.edu |
| 10. | Bachelor’s Degree Requirement | The completed bachelor’s degree requirement is waived for AMP applicants |

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| **Financial Aid Information** |
| 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) |

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| **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 105 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

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| **Senior** |  |
| **Fall** | **Spring** |
| 95-422 Managing Digital Transformation (9 units) | Innovation and Entrepreneurship Requirement (12 units) |
| Concentration research (12 units) | 17-635 (Mini-3) Software Architectures (6 units) |
| Gen Ed (9 units) | 17-632 (Mini-3) Software Project Management (6 units) |
| 17-611 (Mini-1) Statistics for Decision Making (6 units) | 17-514 Principles of Software Construction (12 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 |
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| **Summer following Senior Year** |  |
| 17-667 Internship for Software Engineers (3 units) |  |
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| **5th Year Master’s** | **5th Year Master’s** |
| **Fall** | **Spring** |
| 17-603 Communications for Leaders I (3 units) | 17-604 Communications for Leaders II (3 units) |
| 17-675 Software Engineering Practicum (36 units) | 17-612 (Mini-3) Business & Marketing Strategy (6 units) |
| 17-614 (Mini-1) Formal Methods (6 units) | 17-636 DevOps: Engineering for Secure Development and Deployment (12 units) |
| 17-622 (Mini-2) Agile Methods (6 units) | SE Free Elective (12 units) |
| **Total**: 51 units | SE Free Elective (12 units) |
|  | **Total**: 45 units |
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Contact Information:

mse-applications@andrew.cmu.edu

 Marlana Ivey (mpawlak@andrew.cmu.edu) Travis Breaux (tdbreaux@andrew.cmu.edu)
 MSE Senior Admissions Officer MSE Program Director
 300 South Craig Street, Room 278 300 South Craig Street, Room 277



**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

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| Course Number | Course Title | Semester | Units |
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Advisor Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Advisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_