Program Schedule for  
Master program in Software Engineering, 120 credits
Program code: ZCS24

Valid for the academic year 2016/2017
The program schedule has been examined and approved by Annika Björklund at the School of Innovation, Design and Engineering on 2016-01-28.

About the program schedule
Every degree program has an established program syllabus in which all the courses included in the program appear, divided up by term. The program syllabus is supplemented annually with a program schedule stating in which study period a program course is run, in which city it takes place, if it collides with another course, and so on. The program schedule is valid for one year at a time.

Courses which belong to the main field of study for a degree have been marked with “X” in the column Main field of study.

K1, K2 etc. in the study period columns indicate timetable positions and show whether the courses collide or not. Courses with the same K-value collide; courses with different K-values do not collide. Courses with the value “X” can collide with other courses in the study period. “gp” indicates that you have a guaranteed place for the course in that particular study period and that program term. “comp” indicates that you are applying in competition with all the other program students at MDH (Mälardalen University). “E” indicates that the course is given in Eskilstuna and “V” that it is given in Västerås.

In the column “Overlapping courses” is indicated courses that wholly or partly overlap with the current course on that row. If you have read overlapping courses you may only be accredited with overlapping credits once in a degree. Contact your Study Adviser for more information.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Main Field of Study</th>
<th>Study Period</th>
<th>City</th>
<th>Collides</th>
<th>Overlapping Courses</th>
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Level and Classification of Progressive Specialization

The University uses the following designations for the classification of progressive specialization, where “G” indicates that the course belongs to a program at first-cycle level and “A” that the course belongs to second-cycle level:

G1N course with only upper secondary school entry requirements
G1F course with less than 60-credit course/courses at first-cycle level as entry requirements
G1E course including a specially-designed degree project for a higher education diploma
G2F course with at least 60-credit course/courses at first-cycle level as entry requirements
G2E course with at least 60-credit course/courses at first-cycle level as entry requirements and which includes a degree project for a Bachelor’s degree
GXX course which cannot be classified according to the above model
A1N course with only course/courses at first-cycle level as entry requirements
A1F course with course/courses at second-cycle level as entry requirements
A1E course which includes a degree project for a Master’s degree (60 credits)
A2E course which includes a degree project for a Master’s degree (120 credits)
AXX course which cannot be classified according to the above model

Choice within the program

During the course of your education you can be given the possibility of choosing courses within the program. The choice is made by 15 April at the latest for an autumn term and by 15 October at the latest for a spring term. Prior to these choices the host School will provide information about the different options and about how to choose.

When you make your choices you must always base these on the program syllabus together with the degree requirements for the degree you wish to obtain. Contact your Study Adviser for more information.

To be able to be admitted to a course you must always fulfil the specific eligibility requirements which are stated in the course syllabus, regardless of whether you have a guaranteed place or not. For more information about choice of courses within a program, see MDH’s (Mälardalen University’s) website for “Student” (http://www.mdh.se/student/minastudier/anmalan-antagning). See also the local System of Qualifications, which contains all the qualification descriptors.

Other information

Depending on the number of applicants for the individual courses, courses may be cancelled. You should therefore state reserve alternatives when choosing courses.

The courses are given in English.
# Program Schedule for 2016/2017

### ZCS24

Terms 1 and 2 for program starting in the autumn term 2016

<table>
<thead>
<tr>
<th>Main field of study</th>
<th>Title/Course name</th>
<th>Course code</th>
<th>Level/ Specialisation</th>
<th>Credits</th>
<th>FALL</th>
<th>SPRING</th>
<th>pg/ comp</th>
<th>Rate of study, Form of study</th>
<th>City</th>
<th>Overlapping courses</th>
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<td>HT1</td>
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### Computer Science

- **Component Technologies**
  - Course: CDT401
  - Level: A1N
  - Credits: 7,5
  - Study periods: HT1 K2, HT2 K2
  - PG half-time
  - City: V

- **Software Engineering 1 - Basic course**
  - Course: DVA332
  - Level: G2F
  - Credits: 7,5
  - Study periods: HT1 K1, HT2 K1
  - PG half-time
  - City: V

- **Software Verification and Validation**
  - Course: CDT414
  - Level: A1N
  - Credits: 7,5
  - Study periods: VT1 K3, VT2 K3
  - PG half-time
  - City: V

- **Software Engineering 2 - Project Teamwork**
  - Course: DVA313
  - Level: G2F
  - Credits: 7,5
  - Study periods: VT1 K1, VT2 K1
  - PG half-time
  - City: V

- **Software Engineering 3 - Architectures and Processes**
  - Course: DVA422
  - Level: A1N
  - Credits: 7,5
  - Study periods: HT1 K1, HT2 K1
  - PG half-time
  - City: V

- **Software Development for real-time systems**
  - Course: DVA421
  - Level: A1N
  - Credits: 7,5
  - Study periods: VT1 K4, VT2 K4
  - PG half-time
  - City: V

- **Model-driven Engineering**
  - Course: DVA436
  - Level: A1N
  - Credits: 7,5
  - Study periods: HT1 K2, HT2 K2
  - PG half-time
  - City: V

### Mathematics/Applied mathematics

- **Mathematics of Internet**
  - Course: MAA507
  - Level: A1N
  - Credits: 7,5
  - Study periods: HT1 K3, HT2 K3
  - PG half-time
  - City: V

### Optional/additional courses

### Computer Science

- **Industrial Systems in Cloud Computing**
  - Course: DVA444
  - Level: A1N
  - Credits: 7,5
  - Study periods: HT1 K5, HT2 K5
  - PG half-time
  - City: V

- **Advanced Component-based Software Engineering**
  - Course: DVA449
  - Level: A1N
  - Credits: 7,5
  - Study periods: HT1 K5, HT2 K5
  - PG half-time
  - City: V

### Mathematics/Applied mathematics

- **Applied Matrix Analysis**
  - Course: MAA704
  - Level: A1N
  - Credits: 7,5
  - Study periods: HT1 K4, HT2 K4
  - PG half-time
  - City: V

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- Students could spend one year at one of our partner universities in Netherlands or Italy and earn a double degree (www.gseem.eu).
- The incoming GSEEM students may choose a mix of courses from first and second year lists, in consultation with the program coordinator.
- Students must take at least 7.5 ECTS credits in mathematics at level G1F or higher during the 2-year Master Program.
- Students may choose other program relevant courses offered by the school, in consultation with the coordinator.

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1 The course can be included in the requirements for the degree of Master of Computer Science with specialization in Software Engineering at advanced level.
Terms 2 and 3 for program starting in the autumn term 2015

<table>
<thead>
<tr>
<th>Main field of study</th>
<th>Title/Course name</th>
<th>Course code</th>
<th>Level/ Specialisation</th>
<th>Credits</th>
<th>Study periods</th>
<th>Rate of study, Form of study</th>
<th>City</th>
<th>Overlapping courses</th>
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<td>FALL</td>
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<tr>
<td>Computer Science</td>
<td>X Research Methods in the Natural Sciences and Engineering</td>
<td>CDT403</td>
<td>A1N</td>
<td>7,5</td>
<td>K3 K3</td>
<td>pg Half time V</td>
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<td>X Distributed Software Development ¹</td>
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<td>CDT402</td>
<td>A1N</td>
<td>7,5</td>
<td>K4 K4 K4 K4</td>
<td>pg Quarter time V</td>
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<tr>
<td>X Industrial Systems Development ¹</td>
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<td>CDT417</td>
<td>A1N</td>
<td>7,5</td>
<td>K1 K1</td>
<td>pg Half time V</td>
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<tr>
<td>X Safety Critical Systems Engineering ¹</td>
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<td>DVA437</td>
<td>A1N</td>
<td>7,5</td>
<td>K2 K2</td>
<td>pg Half time V DVA321</td>
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<tr>
<td>X Thesis for the Degree of Master of Science (120 credits) in Computer Science with specialization in Software Engineering</td>
<td>DVA501</td>
<td>A2E</td>
<td>30</td>
<td>X &gt; &gt; &gt; pg</td>
<td>Full time V</td>
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¹ The course can be included in the requirements for the degree of Master of Computer Science with specialization in Software Engineering at advanced level.