

SE&M 1st year students – Term 1

Most welcome to the Software Engineering & Management program in Gothenburg, Sweden. We are delighted to have all new students at the program and we look forward to an interesting time together with all of you. In the coming three years we will offer you an exiting education in which you work in projects on real problems. The education will prepare you for a job in an IT company in an international market; it will also prepare you for a master's education in Sweden or elsewhere in the world.

As a student at the Software Engineering and Management program you enter an international education with students and faculty from all over the world. All course literature and lectures are in English. You will also be confronted with cultural differences which are similar to those you will experience when you start working in an internationally operating software development company. Each term you work in a project with other students. The group is responsible for shaping an initial problem and working towards a creative solution. All projects require both technical as well as organizational skills. Programming and project management are central parts of every project and important skills that you will learn throughout the program. As the very first course there will be a programming course in which you work intensively to learn object-oriented programming in Java. I suggest that you spend some time during summer to prepare for this – buy a book on Java and practice your programming skills before you arrive here!

The official start for all international students is August 29, 2008. We start with our introductory program which includes registration, welcome speech, and information about the IT University etc. All new students are expected to register at 08:30 August 29. We know that for many of you it is the first time at a university and we will gradually help you to get acquainted with your life as a university student.

All staff at the Software Engineering & Management program is looking forward to meeting you in August.

Courses, Term 1:

The following courses will be the courses you will take during your first term at the program:

- Programming, 7.5 ECTS
- User Interface and Database Design, 4.5 ECTS
- Software Processes, 3 ECTS
- Project: Programming, 15 ECTS

The term will start with the Programming course and the User Interface and Database Design courses in parallel. For detailed schedules for each course please see <http://www.ituniv.se/studyinformation>.

Course literature, Term 1:

Below is a list of all books that will be used as course literature during your first term at the SE&M program. The books can be bought when you arrive in Gothenburg (there is a bookstore at the IT university) – or you can buy/order them before that if you like (from any bookstore, website etc. that you prefer). It is a good idea to get the books before you arrive so that you have some time to prepare!

- **Programming, 7.5 ECTS (TIGO19) – choose between the following course book alternatives (use one or several as it suits you):**
 - David J. Barnes and Michael Kölling, *Objects First with Java; a practical introduction using BlueJ*, third edition, isbn 0-13-197629-X, Prentice Hall, 2006. (2nd edition is also usable, but 3rd edition is preferred).
 - John Lewis, William Loftus, *Java Software Solutions: Foundations of Program Design: International Edition*, 6/E, 0321549341
 - Walter Savitch, *Absolute Java: International Edition*, 3/E, 0321505042
 - Y. Daniel Liang, *Introduction to Java Programming, Comprehensive: International Edition*, 7/E, 013605966

- **User Interface and Database Design, 4.5 ECTS (TIGO22)**
 - Søren Lauesen, *User Interface Design: A Software Engineering Perspective*, ISBN, 0321181433, Addison Wesley, 2005.
 - Jeffrey D. Ullman and Jennifer Widom, *A first course in Database systems*, 2nd edition, isbn 0-13-035300-0, Prentice Hall, 2001 (old edition)
 - Jeffrey D. Ullman, Jennifer Widom, *First Course in Database Systems, A*, 3/E, 13600637X (new edition – **one of these two editions are fine to use for the course**)

- **Software Processes, 3 ECTS (TIGO21)**
 - Sommerville, I. (2006) *Software Engineering*, 8th or 7th Edition. Addison-Wesley.

- **Project: Programming, 15 ECTS (TIGO20)**

NOTE that no specific course literature is needed for the project. The project will use literature from the courses specified above. It is the responsibility of each student to buy all books needed. Make sure you have the books when the courses start. Project work and examinations will be related to the books so we advice all students to get the literature suggested above.

The courses listed above are the courses you will have to register for when you arrive in August. Course name, credits and course code is provided above and this will be what you study the first term at the Software Engineering & Management program.

Welcome!

Helena Holmström Olsson, Program manager, SE&M