Programme syllabus

Technical Preparatory Semester
Tekniskt basår, termin 2, KTH Södertälje
30.0 pre-education credits

Valid for students admitted to the education from spring 12 (HT - Autumn term; VT - Spring term).

This is a translation of the Swedish, legally binding, programme syllabus.

Programme objectives

The aim of the education is to broaden the skills for students who have completed upper-secondary school without the specific entry requirements that apply for technical and scientific educations.

The preparatory year, semester 2 is an access programme that connects to basic engineering programmes on KTH and to which the student is guaranteed a place from the beginning, given passed preparatory year, semester 2.

The preparatory year is adapted to the subsequent education and should, in addition to the broadening of the topic-specific skills, train the student's ability for university and higher education studies.

An additional aim of the preparatory year is to increase the amount of women in the mathematical-scientific and technical education. After the qualifying education, the student should:

Knowledge and understanding

- show knowledge in the scientific fields of mathematics, physics and chemistry

Skills and abilities

- show ability to, orally and in writing, account for and discuss simple scientific problems and solutions

Ability to make judgements and adopt a standpoint

- show ability for teamwork and cooperation in groups of different composition

Extent and content of the programme
The education comprises 1 semester and 30 HE credits. It is at a preparatory level.

The programme has no specialisations.

The education is aim-oriented and the courses follow, in general, the course syllabi of upper-secondary school.

**Eligibility and selection**

Apart from the general entry requirements, the entry requirements are: Mathematics C, Physics A and Chemistry A (Science B does not qualify for admission). For each of the subjects, a grade of at least Pass or 3 is required.

**Implementation of the education**

**Structure of the education**

Academic year, semesters and study periods are described in KTH's regulatory framework, [www.kth.se](http://www.kth.se).

**Joint basic courses**

The joint basic courses consist of courses in mathematics and physics.

Elective or optional courses are not available.

**Courses**

The programme is course-based. Lists of courses are included in [appendix 1](#).

**Grading system**

Courses in the first and the second cycle are graded on a scale from A to F. A-E are passing grades, A is the highest grade. The grades pass (P) and fail (F) are used for courses under certain circumstances.

**Recognition of previous academic studies**

A student who has completed an equivalent course on another university or higher education institution may credit the course in the programme with the grade E.

**Degree**

The education is an access programme and no degree is given from the programme.

If all courses of the preparatory year are passed, a place on one of KTH's civil or university engineering educations is guaranteed.
The transition to a civil or university engineering education takes place through selection and is dependent on study results during the preparatory year. Observe that achieved credit points on Technical Preparatory Year, semester 2 may not be included in an engineering degree.

KTH's local degree ordinance can be found in KTH's regulatory framework. www.kth.se

Appendix 1 - Course list
Appendix 2 - Programme syllabus descriptions
# Appendix 1: Course list

Technical Preparatory Semester (TBTMS), Programme syllabus for studies starting in spring 2012

## General courses

### Year 1

**Mandatory courses (30.0 Pre-education credits)**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML0013</td>
<td>Mathematics D</td>
<td>6.0</td>
<td>fup     Pre-university level</td>
</tr>
<tr>
<td>ML0014</td>
<td>Mathematics E</td>
<td>6.0</td>
<td>fup     Pre-university level</td>
</tr>
<tr>
<td>ML0016</td>
<td>Physics B</td>
<td>18.0</td>
<td>fup     Pre-university level</td>
</tr>
</tbody>
</table>
Appendix 2: Specialisations

Technical Preparatory Semester (TBTMS), Programme syllabus for studies starting in spring 2012

This programme has no specialisations.