Programme syllabus

Master's Programme, Pharmaceuticals and Pharmaceutical Engineering, 120 credits
Masterprogram, läkemedelsteknik
120.0 credits

Valid for students admitted to the education from autumn 07 (HT - Autumn term; VT - Spring term).

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

Programme objectives

Knowledge and understanding

Skills and abilities

Ability to make judgements and adopt a standpoint

Extent and content of the programme

Eligibility and selection

Implementation of the education

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.

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

Master's Programme, Pharmaceuticals and Pharmaceutical Engineering, 120 credits (TPHEM), Programme syllabus for studies starting in autumn 2007

General courses

Year 1

Mandatory courses (57.0 credits)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB2170</td>
<td>Drug Development</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td>KD2070</td>
<td>Technical Surface Colloid Chemistry</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td>KD2190</td>
<td>Organic Chemistry, Theory, Advanced Course 1</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td>KE2030</td>
<td>Chemical Engineering, Laboratory Course</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td>KE2040</td>
<td>Chemical Reaction Engineering</td>
<td>9.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td>KE2070</td>
<td>Transport Phenomena, Advanced Course</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td>KE2080</td>
<td>Chemical Engineering in Fine and Specialty Chemicals</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td>KF2190</td>
<td>Polymeric Materials: Structure and Properties</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
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</table>

Supplementary information

The Degree Project will start in per 3. To apply for the Degree Project contact the Student Office.

Year 2

Mandatory courses (19.5 credits)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
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<tbody>
<tr>
<td>KD2200</td>
<td>Organic Chemistry, Advanced Course</td>
<td>6.0</td>
<td>Second cycle</td>
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<tr>
<td>KE2150</td>
<td>Industrial Pharmaceutics</td>
<td>7.5</td>
<td>Second cycle</td>
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<tr>
<td>MG2024</td>
<td>Manufacturing Systems and Automation</td>
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### Optional courses

<table>
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<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AK2036</td>
<td>Theory and Methodology of Science with Applications (Natural and Technological Science)</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td>BB2020</td>
<td>Molecular Enzymology</td>
<td>7.5</td>
<td>Second cycle</td>
</tr>
<tr>
<td>BB2030</td>
<td>Enzymatic Synthesis</td>
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<td>Second cycle</td>
</tr>
<tr>
<td>BB2280</td>
<td>Molecular Modeling</td>
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<td>Second cycle</td>
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<tr>
<td>KD2040</td>
<td>Quantum Chemistry and Spectroscopy</td>
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<td>Second cycle</td>
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<tr>
<td>KD2160</td>
<td>Structural Chemistry</td>
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<td>Second cycle</td>
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<tr>
<td>KD2220</td>
<td>Selective Organic Synthesis</td>
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<td>KF2130</td>
<td>Polymer Chemistry</td>
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<td>LI1081</td>
<td>Information Searching</td>
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<td>First cycle</td>
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Appendix 2: Specialisations

Master's Programme, Pharmaceuticals and Pharmaceutical Engineering, 120 credits (TPHEM), Programme syllabus for studies starting in autumn 2007

This programme has no specialisations.