Mathematics Minor

Iago Rossetto

Telegram: @iagorst
Mathematics Minor

Iago, 2nd year QT student
<table>
<thead>
<tr>
<th>Code</th>
<th>Course name</th>
<th>ECTS credits</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS-A00**</td>
<td>Matrix algebra</td>
<td>5</td>
<td>Fi: I, II, III, / Sv: II / En: II</td>
</tr>
<tr>
<td>MS-A01**</td>
<td>Differential and integral calculus 1</td>
<td>5</td>
<td>Fi: I, II, IV / Sv: I / En: I</td>
</tr>
<tr>
<td>MS-A02**</td>
<td>Differential and integral calculus 2</td>
<td>5</td>
<td>Fi: I, III, IV, kesä / Sv: III / En: III</td>
</tr>
<tr>
<td>MS-A03**</td>
<td>Differential and integral calculus 3</td>
<td>5</td>
<td>Fi: I, IV / Sv: IV / En: IV</td>
</tr>
<tr>
<td>MS-A040*</td>
<td>Foundations of discrete mathematics</td>
<td>5</td>
<td>Fi: I / Sv: II / En: IV</td>
</tr>
<tr>
<td>MS-A050*</td>
<td>First course in probability and statistics</td>
<td>5</td>
<td>Fi: I, II, IV, summer / Sv: III / En: III</td>
</tr>
<tr>
<td>MS-C1001 (A)</td>
<td>Shapes in Action</td>
<td>5</td>
<td>I</td>
</tr>
<tr>
<td>MS-C1081</td>
<td>Abstract Algebra</td>
<td>5</td>
<td>III</td>
</tr>
<tr>
<td>MS-C1300</td>
<td>Complex Analysis</td>
<td>5</td>
<td>II</td>
</tr>
<tr>
<td>MS-C1342</td>
<td>Linear algebra</td>
<td>5</td>
<td>V</td>
</tr>
<tr>
<td>MS-C1350</td>
<td>Partial Differential Equations</td>
<td>5</td>
<td>I-II</td>
</tr>
<tr>
<td>MS-C1420</td>
<td>Fourier-analyysi</td>
<td>5</td>
<td>I</td>
</tr>
<tr>
<td>MS-C1530</td>
<td>Curves and surfaces</td>
<td>5</td>
<td>I</td>
</tr>
<tr>
<td>MS-C1541</td>
<td>Metric Spaces</td>
<td>5</td>
<td>III</td>
</tr>
<tr>
<td>MS-C1650</td>
<td>Numerical analysis</td>
<td>5</td>
<td>V</td>
</tr>
<tr>
<td>MS-E1000 (A)</td>
<td>Crystal Flowers in Halls of Mirrors: Mathematics Meets Art and Architecture D</td>
<td>5–15</td>
<td>III-IV</td>
</tr>
</tbody>
</table>
Mindmap from my good friend Niko (not up-to-date)
Aaltonaut Minor

Astrid Andersin

Telegram: @astridandersin
- Product Development Minor
Courses

Mandatory courses

- **AAN-C2006** 5 cr 4 Product analysis
- **AAN-C2009** 5 cr Designing an Electronic

Elective courses

(choose so many courses that the Minor will be at least 25 cr). If you want to study extra courses, you can add them to your electives.

- **ADD Basics - Additive** 5 cr AAN-C2012
- **Product Sustainability** 5 cr AAN-C2007
- **Service design tools for** 5 cr AAN-C1013
- **Creating Value** 5 cr TU-C1020
- **Entrepreneurship in Aa** 1 cr AAN-A1001

Selected: 15 Min. 10 CR
Course work

Product Analysis

Designing an electronic device for business and production
Does Aaltonaut affect my future plans?

- Yes, kind of...

Chemical and Process Engineering - Chemical, Biochemical and Materials Engineering, Master of Science (Technology)

- Degree: Master studies
- Duration: 2 years, full-time
- Application period: 1.12.2022 – 2.1.2023
- Language: English
- Study field: Technology and Engineering
- Tuition fees:
  - For non-EU/EEA citizens, €15000/y (Master’s studies)
Astrophysics Minor

@Helsinki University

Meeri Mäkitalo

Telegram: @meerimakitalo
Computer Science and Information Networks Minor

Veera Ihalainen

Telegram: @veliih
Computer Science Minor

advanced study path

Compulsory

- Programming 1
- Programming 2
- Data Structures and Algorithms

Optional

- Theory of Computation
- Computer Graphics
- Human-Computer Interaction
- Machine Learning D
- Operating Systems
- Web Software Development
- Information Security
- Software Engineering
- Programming Parallel Computers D
- Basic Course in C programming
- Object oriented programming with C++
Why?

1. Widest array of choices for continuing to master’s studies
   - Human-Computer Interaction
   - Computer Science
   - Machine Learning, Data Science and Artificial Intelligence
   - Security and Cloud Computing
   - Software and Service Engineering

2. Strong base for programming skills
   - Easy to continue to more demanding programming courses
Information Networks

Programming 1
Human-Computer Interaction
Tieteen ja tiedon perusteet (only in Finnish)
Ihminen havaitsijana (only in Finnish)

Criterion for the Information Networks Master’s programme
Interested in getting new friends from other majors?

ETCo organizes events for English bachelor’s students!