

# Open Informatics

a computer science program

bachelor and master

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# Study program Open Inforatics at FEE

- interdisciplinary (close to robotics, embedded systems, ...)
- connected to world class research
- students may participate on bleeding edge projects
- connected to many companies around the globe
- courses, textbook, tools ... compatible with top US, EU or Asia universities

# Bachelor

- **Computer and Information Science**
- Computer Systems
- Software Systems

## **Minors:**

- Mathematics
- Computer Graphics
- Embedded Systems
- Artificial Intelligence
- Economics, ...

1 (winter)	<b>AE0B01LAG</b> 4p+2s Linear Algebra	<b>AE4B01DMA</b> 2p+2s Discrete mathematics	<b>AE0B36PR1</b> 2p+2c Programming 1	<b>AE4B99RPH</b> 1p+3c Solving problems and other games	Humanistic, economy, management courses
2 (summer)	<b>AE4B01MA2</b> 4p+2s Calculus	<b>AE0B01LGR</b> 3p+2s Logic and Graph Theory	<b>AE0B36PR2</b> 2p+2c Programming 2	<b>AE4B33ALG</b> 2p+2c Algorithms	Humanistic, economy, management courses
3 (winter)	<b>AE0B01PSI</b> 4p+2s Probability, Statistics, and Theory of Information	<b>AE4B01JAG</b> 2p+2s Languages, automata and grammars	<b>AE0B35SPS</b> 3p+2l Computer Systems Structures	<b>AE4B33OSS</b> 2p+2c Operating systems and networks	<b>AE4B01NUM</b> 2p+2c Numerical Analysis
4 (summer)	<b>AE4B02FYZ</b> 2p+2l Physics for Informatics	<b>AE0B36APO</b> 2p+2l Computer Architectures	<b>AE4B33DS</b> 2p+2c Database Systems	<b>AE4B33FLP</b> 2p+2c Functional and Logic Programming	<b>AE4B33ZUI</b> 2p+2c Introduction to Artificial Intelligence
5 (winter)	<b>AE4B33OPT</b> 4p+2c Optimization	<b>AE4B33RPZ</b> 2p+2c Pattern Recognition and Machine Learning	<b>AE4B99SVP</b> TBD Software or Research Project		
6 (summer)			Humanistic, economy,		<b>AE4B99BAP</b> TBD Bachelor Project

# Computer and Information Science

# Master program

- **Artificial Intelligence**
- **Computer Vision and Digital Image**
- Computer Graphics
- Software Engineering and Interaction
- Computer Engineering

## **Minors**

- Robotics
- Management
- ... (all branches)

# major: Artificial Intelligence

1 (winter)	<b>AE4M33PAL</b> 2p+2c Advanced algorithms	<b>AE4M33RZN</b> 2p+2c Advanced Methods for Knowledge Representation	<b>AE4B33RPZ</b> 2p+2c Pattern Recognition and Machine Learning	<b>AE4B33OPT</b> 4p+2c Optimization	
2 (summer)	<b>AE4M01TAL</b> 3p+1s Theory of Algorithms	<b>AE4M35KO</b> 3p+2c Combinatorial Optimization	<b>AE4M33PAH</b> 2p+2c Planning and game playing	<b>AE4M33BIA</b> 2p+2c Bio Inspired Algorithms	
3 (winter)	<b>AE4M33MAS</b> 2p+2c Multiagent Systems	<b>AE4M33SAD</b> 2p+2c Machine Learning and Data Analysis			<b>AE4M99SVP</b> TBD Software or Research Project
4 (summer)				<b>AE4M33AU</b> 2p+2c Automatic Reasoning	<b>AE4M99DIP</b> TBD Master Thesis

# AI major, Vision minor

1 (winter)	<b>AE4M33PAL</b> 2p+2c Advanced algorithms	<b>AE4M33RZN</b> 2p+2c Advanced Methods for Knowledge Representation	<b>AE4M33DZO</b> 2p+2c Digital image	<b>AE4B33RPZ</b> 2p+2c Pattern Recognition and Machine Learning	
2 (summer)	<b>AE4M01TAL</b> 3p+1s Theory of Algorithms	<b>AE4M35KO</b> 3p+2c Combinatorial Optimization	<b>AE4M33PAH</b> 2p+2c Planning and game playing	<b>AE4M33BIA</b> 2p+2c Bio Inspired Algorithms	<b>AE4M33MPV</b> 2p+2c Computer Vision Methods
3 (winter)	<b>AE4M33MAS</b> 2p+2c Multiagent Systems	<b>AE4M33SAD</b> 2p+2c Machine Learning and Data Analysis	<b>AE4M33TDV</b> 2p+2c 3D Computer Vision	<b>AE4M39VG</b> 2p+2c Computational Geometry	<b>AE4M99SVP</b> TBD Software or Research Project
4 (summer)				<b>AE4M33AU</b> 2p+2c Automatic Reasoning	<b>AE4M99DIP</b> TBD Master Thesis



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## Our projects | ▶ more projects

OCERA - Open Components for Embedded Real-time Applications



## For Study Applicants

### About Open Informatics

Is this your first time here? Learn more about [reasons why study OI](#). If you have any questions see [FAQ](#) or do not hesitate to [contact us](#).



### Connection with industry

We combine the emphasis on theoretical knowledge with subjects taught by experts from companies such as Google or Microsoft. You can participate in our projects which can later be turned into the subject of your diploma thesis.



### Study programs

Are you familiar with our [bachelor's](#) and [master's](#) programs with a high number of facultative subjects?



### Study abroad

The bachelor's program covers GRE requirements and therefore you can continue with your study anywhere in the world.

