

Student name:

ID- number:

Intended graduation group\*:

Preference 1

Preference 2

\*This field is required. If this is yet unknown, you will not be guaranteed a secure spot in your prefred group when you want to choose a supervisor .

Mentor:

Month and year of enrollment IAM:

#### **Course totals**

Study program component	Credits
Core courses (at least 20 credits)	
Special electives	
Subtotal (at least 55 credits)	
Professional Portfolio	5
Free electives (includes internship if applicable)	
Final Project	30
Total amount of credits (at least 120 credits)	

#### **Compulsory course**

	Course code	Course title	Credits
$\boxtimes$	2MMR10	Professional portfolio	5
		Subtotal	5

#### **Core electives**

Select at least 4 out of 6 courses.

Course code	Course title	Credits
2MMA10	Applied Functional Analysis	5
2MMC10	Cryptology	5
2MMD10	Optimization	5
2MMN10	Scientific Computing	5
2MMS10	Probability and Stochastics 1	5
2MMS70	Statistical Analysis Methods	5
 •	Subtotal	



### **Special electives**

Add Mastermath courses to this list if applicable.

 Course code	Course title	credits
2DD23 Time Series Analysis and Forecasting		5
2DMI00	Cryptographic Protocols	5
2DMI10	Applied Cryptography	5
2IMA10	Advanced Algorithms	5
2MMA20	Partial Differential Equations	5
2MMA30	Modeling and Perturbation Methods	5
2MMA40	Evolution Equations	5
2MMA70	Differential Geometry for Image Processing	5
2MMC30	Coding Theory	8
2MMD20	Multilinear Algebra and Applications	5
2MMD30	Graphs and Algorithms	5
2MMD40	Integer Programming	5
2MMD50	Algebraic Combinatorics	5
2MMN20	Scientific Programming	5
2MMN30	Scientific Computing in PDE	5
2MMN40	Introduction to Molecular Modeling and Simulation	5
2MMR40	Research Topic 1	5
2MMR50	Research Topic 2	5
2MMR60	Research Topic 3	5
2MMS20	Statistics for Big Data	5
2MMS30	Probability and Stochastics 2	5
2MMS40	Stochastic Networks	5
2MMS50	Stochastic Decision Theory	5
2MMS60	Random Graphs	5
2MMS80	Statistical Learning Theory	5
5LAM0	Model reduction	5
EME35	Learning on the Job 4	5
EME40	Practical Educational Research (workshops)	2.5
EME41	Practical Educational Research (project)	7.5



#### **Free electives**

Master level courses, homologation courses (if applicable), and internship (if applicable).

Course code	Course title	Credits
2MMR20	Internship	15
SFC640	Academic Writing	5
	Subtotal	

#### **Graduation Project**

Course code	Course title	Credits
2MMR30	Graduation project	30
 •	Subtotal	

#### Additional information

1) List all *bachelor* courses in the proposed study program. Argue that each course is necessary for homologation by indicating an elective course or project on this study program for which this bachelor course gives necessary pre-knowledge.

BC code	Bachelor Course title	MC code	Master Course title

- 2) The following decisions of the IAM examination committee apply to this study program (give dates):
- 3) This form updates a previously approved study program: □ Yes □ No (If yes, list changes relative to previous program on the final page of this form)



#### Signature of Student

Signature:

## **Approval of Mentor**

 $\hfill\square$  I have verified that there is no significant overlap between the subject matter of the various parts of this study program.

Name:

Signature:

## Approval of the Examination Committee

 $\hfill\square$  Approved by the academic advisor on behalf of the EC

Signature:

This form must be handed in digitally **by the mentor** at the Student Administration (CSA.MCS@tue.nl). The IAM Program and Examination Regulations are available from the TU/e online education guide: <a href="https://educationguide.tue.nl/programs/graduate-school/masters-programs/industrial-and-applied-mathe-matics/regulations/">https://educationguide.tue.nl/programs/graduate-school/masters-programs/industrial-and-applied-mathe-matics/regulations/</a>

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Date:

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