VU VRIJE UNIVERSITEIT AMSTERDAM — Faculteit der Bètawetenschappen

Legend:
- 🟩 Compulsory Course
- 🟦 Elective
- 🟨 Examination week*
- 🟩 Constrained Choice (6 ec)
- 🟧 Project
- 🟨 Education free**

Last modified: 5-9-2023

Year Schedule M Computer Science 2023 - 2024

Track Big Data Engineering

YEAR 1

WEEK	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	33

period 1 | period 2 | period 3 | period 4 | period 5 | period 6

- Data Protection Technologies (6 ec) XMU_0057
- Web Data Processing Systems (6 ec) XM_40020
- Data Preparation (6 ec) XMU_0058
- Data Mining Techniques (6 ec) X_400108
- X_400108 (continued)
- Resits | Resits

YEAR 2

WEEK	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	33

period 1 | period 2 | period 3 | period 4 | period 5 | period 6

- Master Project Computer Science (30 ec) XM_0011
- Resits | Resits

Constrained Choice Track Big Data Engineering (6 EC required)

WEEK	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	33

period 1 | period 2 | period 3 | period 4 | period 5 | period 6

YEAR 1 AND 2

Foundations of Computing & Concurrency (6 EC required)
- Advanced Algorithms (6 ec) XMU_0060
- Advanced Logic (6 ec) X_405048
- Distributed Algorithms (6 ec) X_400211
- X_400211 (continued)
- Resits | Resits

Mathematics (6 EC required)
- Dynamic Programming and Reinf... (6 ec) XM_0093
- Performance of Networked Systems (6 ec) X_405105
- Coding and Cryptography (6 ec) X_405041
- Experimental Design and Data Analysis (6 ec) X_405078
- Resits | Resits

Software Engineering (6 EC required)
- Software Asset Management (6 ec) X_400412
- Service Oriented Design (6 ec) X_405061
- Digital Architecture (6 ec) XM_0127
- Software Testing (6 ec) X_400439
- X_400439 (continued)
- Resits | Resits

Societal Perspectives on Comp Science (6 EC required)
- History of Digital Cultures (6 ec) XM_0134
- Entrepreneurship in Analyt and AI (6 ec) XM_0090
- E-Commerce Law (6 ec) R_E.commerc
- R_E.commerc (continued)
- ICT4D in the Field (6 ec) XM_0008
- ICT4D (6 ec) X_405101
- X_405101 (continued)
- Resits | Resits

Security (6 EC required)
- Software Security (6 ec) X_400127
- Verification for Security (6 ec) XM_0099
- Network Security (6 ec) XM_0100
- Security and Machine.. (6 ec) XM_0135
- Cryptographic Engineering (6 ec) XMU_0047
- Security Experiments and Measurements (6 ec) XM_0098
- Software Threat Analysis (6 ec) XM_0124
- XM_0124 (continued)
- Resits | Resits

Research Skills (6 EC required)
- Large Research Project Computer Science (12 ec) XM_0130
- Research Project Computer Science (6 ec) XM_0129
- Literature Study (6 ec) XM_0131
- Resits | Resits

Track Computer Systems and Infrastructure

YEAR 1

period 1 | period 2 | period 3 | period 4 | period 5 | period 6

- Storage Systems (6 ec) XM_0092
- Cryptographic Engineering (6 ec) XMU_0047
- Multi-core Processor Systems (6 ec) XMU_0055
- Energy-efficient Edge Computing — XMU_0056 (continued)
- Resits
- Resits

YEAR 2

period 1 | period 2 | period 3 | period 4 | period 5 | period 6

- Master Project Computer Science (30 ec) XM_0011
- Resits
- Resits

Constrained Choice Track Computer Systems and Infrastructure (6 EC required)

period 1 | period 2 | period 3 | period 4 | period 5 | period 6

YEAR 1 AND 2

Foundations of Computing & Concurrency (6 EC required)

- Advanced Algorithms (6 ec) XMU_0060
- Advanced Logic (6 ec) X_405048
- Distributed Algorithms (6 ec) X_400211 — X_400211 (continued)
- Resits
- Resits

Mathematics (6 EC required)

- Dynamic Programming and Reinf... (6 ec) XM_0093
- Performance of Networked Systems (6 ec) X_405105
- Coding and Cryptography (6 ec) X_405041
- Experimental Design and Data Analysis (6 ec) X_405078
- Resits
- Resits

Programming (6 EC required)

- Advanced Operating Systems (6 ec) XM_40014
- Programming Large-scale Parallel Systems (6 ec) XM_40017
- Individual Systems Practical (6 ec) XM_405088
- Parallel Programming Pr... (6 ec) X_400162
- Project Systems Testing (6 ec) X_405124
- Resits
- Resits

Software Engineering (6 EC required)

- Software Asset Management (6 ec) X_400412
- Service Oriented Design (6 ec) X_405061
- Digital Architecture (6 ec) XM_0127
- Software Testing (6 ec) X_400439 — X_400439 (continued)
- Resits
- Resits

Societal Perspectives on Comp Science (6 EC required)

- History of Digital Cultures (6 ec) XM_0134
- Entrepreneurship in Analyt and AI (6 ec) XM_0090
- E-Commerce Law (6 ec) R_E.commerc — R_E.commerc (continued)
- ICT4D (6 ec) X_405101 — X_405101 (continued)
- ICT4D in the Field (6 ec) XM_0008
- Resits
- Resits

Security (6 EC required)

- Software Security (6 ec) X_400127
- Verification for Security (6 ec) XM_0099
- Network Security (6 ec) XM_0100
- Security and Machine.. (6 ec) XM_0135
- Cryptographic Engineering (6 ec) XMU_0047
- Security Experiments and Measurements (6 ec) XM_0098
- Software Threat Analysis (6 ec) XM_0124 — XM_0124 (continued)
- Resits
- Resits

Research Skills (6 EC required)

- Large Research Project Computer Science (12 ec) XM_0130
- Research Project Computer Science (6 ec) XM_0129
- Literature Study (6 ec) XM_0131
- Resits
- Resits

Track Foundations of Computing and Concurrency

YEAR 1

period 1   period 2   period 3   period 4   period 5   period 6

Verification for Security
(6 ec) XM_0099

Term Rewriting Systems
(6 ec) XM_400121

Advanced Logic
(6 ec) X_405048

Distributed Algorit...
(6 ec) X_400211

X_400211 (continued)

Resits   Resits

YEAR 2

period 1   period 2   period 3   period 4   period 5   period 6

Master Project Computer Science
(30 ec) XM_0011

Resits   Resits

Constrained Choice Track Foundations of Computing and Concurrency (6 EC required)

period 1   period 2   period 3   period 4   period 5   period 6

YEAR 1 AND 2

Mathematics (6 EC required)

Dynamic Programming and Reinf...
(6 ec) XM_0093

Performance of Networked Systems
(6 ec) X_405105

Coding and Cryptography
(6 ec) X_405041

Experimental Design and Data Analysis
(6 ec) X_405078

Resits   Resits

Programming (6 EC required)

Programming Large-scale Parallel Systems
(6 ec) XM_40017

Advanced Operating Systems
(6 ec) XM_40014

Individual Systems Practical
(6 ec) XM_405088

Parallel Programming Pr...
(6 ec) X_400162

Project Systems Testing
(6 ec) X_405124

Resits   Resits

Software Engineering (6 EC required)

Software Asset Management
(6 ec) X_400412

Service Oriented Design
(6 ec) X_405061

Digital Architecture
(6 ec) XM_0127

Software Testing
(6 ec) X_400439

X_400439 (continued)

Resits   Resits

Societal Perspectives on Comp Science (6 EC required)

History of Digital Cultures
(6 ec) XM_0134

Entrepreneurship in Analyt and AI
(6 ec) XM_0090

E-Commerce Law
(6 ec) R_E.commerc

R_E.commerc (continued)

ICT4D in the Field
(6 ec) XM_0008

ICT4D
(6 ec) X_405101

X_405101 (continued)

Resits   Resits

Security (6 EC required)

Software Security
(6 ec) X_400127

Verification for Security
(6 ec) XM_0099

Network Security
(6 ec) XM_0100

Security and Machine..
(6 ec) XM_0135

Cryptographic Engineering
(6 ec) XMU_0047

Security Experiments and Measurements
(6 ec) XM_0098

Software Threat Analysis
(6 ec) XM_0124

XM_0124 (continued)

Resits   Resits

Research Skills (6 EC required)

Large Research Project Computer Science
(12 ec) XM_0130

Research Project Computer Science
(6 ec) XM_0129

Literature Study
(6 ec) XM_0131

Resits   Resits

Track Systems for Large-Scale Applications

YEAR 1 — period 1 | period 2 | period 3 | period 4 | period 5 | period 6

| Programming Large-scale Parallel Systems (6 ec) XM_40017 | Distributed Systems (6 ec) X_400130 | Parallel Programming Pr... (6 ec) X_400162 | Web Services and Cloud-based Systems (6 ec) XMU_418110 | Distributed Algorithms (6 ec) X_400211 | X_400211 (continued) | Resits | Resits |

YEAR 2 — period 1 | period 2 | period 3 | period 4 | period 5 | period 6

Master Project Computer Science (30 ec) XM_0011 — Resits | Resits

Constrained Choice Track Systems for Large-Scale Applications (6 EC required)

period 1 | period 2 | period 3 | period 4 | period 5 | period 6

Foundations of Computing & Concurrency (6 EC required)

| Advanced Algorithms (6 ec) XMU_0060 | Advanced Logic (6 ec) X_405048 | Distributed Algorithms (6 ec) X_400211 | X_400211 (continued) | Resits | Resits |

Mathematics (6 EC required)

| Dynamic Programming and Reinf... (6 ec) XM_0093 | Coding and Cryptography (6 ec) X_405041 | Resits | Resits |
| Performance of Networked Systems (6 ec) X_405105 | Experimental Design and Data Analysis (6 ec) X_405078 | | |

Programming (6 EC required)

Programming Large-scale Parallel Systems (6 ec) XM_40017	Parallel Programming Pr... (6 ec) X_400162	Project Systems Testing (6 ec) X_405124	Resits	Resits
Advanced Operating Systems (6 ec) XM_40014			
Individual Systems Practical (6 ec) XM_405088			

Software Engineering (6 EC required)

| Software Asset Management (6 ec) X_400412 | Digital Architecture (6 ec) XM_0127 | Software Testing (6 ec) X_400439 | X_400439 (continued) | Resits | Resits |
| Service Oriented Design (6 ec) X_405061 | | | |

Societal Perspectives on Comp Science (6 EC required)

| History of Digital Cultures (6 ec) XM_0134 | Entrepreneurship in Analyt and AI (6 ec) XM_0090 | E-Commerce Law (6 ec) R_E.commerc | R_E.commerc (continued) | ICT4D in the Field (6 ec) XM_0008 | Resits | Resits |
| | | ICT4D (6 ec) X_405101 | X_405101 (continued) | | |

Security (6 EC required)

| Software Security (6 ec) X_400127 | Network Security (6 ec) XM_0100 | Security and Machine.. (6 ec) XM_0135 | Cryptographic Engineering (6 ec) XMU_0047 | Software Threat Analysis (6 ec) XM_0124 | XM_0124 (continued) | Resits | Resits |
| Verification for Security (6 ec) XM_0099 | | Security Experiments and Measurements (6 ec) XM_0098 | | | |

Research Skills (6 EC required)

Large Research Project Computer Science (12 ec) XM_0130	Resits	Resits
Research Project Computer Science (6 ec) XM_0129		
Literature Study (6 ec) XM_0131		

Track Software Engineering and Green IT

| WEEK | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | | 33 |

YEAR 1

period 1 — period 2 — period 3 — period 4 — period 5 — period 6

- **Service Oriented Design** (6 ec) X_405061
- **Digital Architecture** (6 ec) XM_0127
- **Fundamentals of Adaptive Software** (6 ec) XM_0128
- **Software Testing** (6 ec) X_400439
- X_400439 (continued)
- Resits

YEAR 2

period 1 — period 2 — period 3 — period 4 — period 5 — period 6

- **Green Lab** (6 ec) X_418158
- **Master Project Computer Science** (30 ec) XM_0011
- Resits

Constrained Choice Track Software Engineering and Green IT (6 EC required)

| WEEK | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | | 33 |

period 1 — period 2 — period 3 — period 4 — period 5 — period 6

Foundations of Computing & Concurrency (6 EC required)

- **Advanced Algorithms** (6 ec) XMU_0060
- **Advanced Logic** (6 ec) X_405048
- **Distributed Algorithms** (6 ec) X_400211
- X_400211 (continued)
- Resits

Mathematics (6 EC required)

- **Dynamic Programming and Reinf...** (6 ec) XM_0093
- **Performance of Networked Systems** (6 ec) X_405105
- **Coding and Cryptography** (6 ec) X_405041
- **Experimental Design and Data Analysis** (6 ec) X_405078
- Resits

Programming (6 EC required)

YEAR 1 AND 2

- **Programming Large-scale Parallel Systems** (6 ec) XM_40017
- **Advanced Operating Systems** (6 ec) XM_40014
- **Individual Systems Practical** (6 ec) XM_405088
- **Parallel Programming Pr...** (6 ec) X_400162
- **Project Systems Testing** (6 ec) X_405124
- Resits

Societal Perspectives on Comp Science (6 EC required)

- **History of Digital Cultures** (6 ec) XM_0134
- **Entrepreneurship in Analyt and AI** (6 ec) XM_0090
- **E-Commerce Law** (6 ec) R_E.commerc
- R_E.commerc (continued)
- **ICT4D in the Field** (6 ec) XM_0008
- **ICT4D** (6 ec) X_405101
- X_405101 (continued)
- Resits

Security (6 EC required)

- **Software Security** (6 ec) X_400127
- **Verification for Security** (6 ec) XM_0099
- **Network Security** (6 ec) XM_0100
- **Security and Machine..** (6 ec) XM_0135
- **Cryptographic Engineering** (6 ec) XMU_0047
- **Security Experiments and Measurements** (6 ec) XM_0098
- **Software Threat Analysis** (6 ec) XM_0124
- XM_0124 (continued)
- Resits

Research Skills (6 EC required)

- **Large Research Project Computer Science** (12 ec) XM_0130
- **Research Project Computer Science** (6 ec) XM_0129
- **Literature Study** (6 ec) XM_0131
- Resits

WEEK | 36 37 38 39 40 41 42 43 | 44 45 46 47 48 49 50 51 52 | 1 2 3 4 5 | 6 7 8 9 10 11 12 13 | 14 15 16 17 18 19 20 21 | 22 23 24 25 26 27 28 29 ... 33

YEAR x

period 1

- Programming Large-scale Parallel Systems (6 ec) XM_40017
- Advanced Operating Systems (6 ec) XM_40014
- Green Lab (6 ec) X_418158
- Data Protection Technology (6 ec) XMU_0046
- Introduction to Computational Science (6 ec) XMU_418111
- Knowledge Organization (6 ec) X_405065
- Service Oriented Design (6 ec) X_405061
- Software Asset Management (6 ec) X_400412
- Storage Systems (6 ec) XM_0092
- Evolutionary Computing (6 ec) X_400111

period 2

- Dynamic Programming and Reinf... (6 ec) XM_0093
- Digital Architecture (6 ec) XM_0127
- Web Data Processing Systems (6 ec) XM_40020
- Performance of Networked Systems (6 ec) X_405105
- The Social Web (6 ec) X_405086
- Advanced Algorithms (6 ec) XMU_0060
- Distributed Systems (6 ec) X_400130
- Fundamentals of Adaptive Software (6 ec) XM_0128

period 3

- Software Containerization (6 ec) XM_0091
- Parallel Programming Pr... (6 ec) X_400162
- High Performance Comp... (6 ec) XMU_40013

period 4

- Systems Seminar (6 ec) XM_0122
- Experimental Design and Data Analysis (6 ec) X_405078
- Advanced Logic (6 ec) X_405048
- Coding and Cryptography (6 ec) X_405041
- Term Rewriting Systems (6 ec) XM_400121
- Web Services and Cloud-based Systems (6 ec) XMU_418110

period 5

- Energy-Efficient Edge.. (6 ec) XMU_0056 — XMU_0056 (continued)
- Data Mining Techniques (6 ec) X_400108 — X_400108 (continued)
- ICT4D (6 ec) X_405101 — X_405101 (continued)
- Software Testing (6 ec) X_400439 — X_400439 (continued)
- Distributed Algorithms (6 ec) X_400211 — X_400211 (continued)

period 6

- ICT4D in the Field (6 ec) XM_0008
- Machine Learning... (6 ec) XM_40012
- Project Systems Testing (6 ec) X_405124

Individual Systems Practical (6 ec) XM_405088

Industrial Internship (6 ec) XM_405080

Resits | Resits

* The examination weeks may differ.

For more information about the annual format, click [here]

For the current timetable information go to rooster.vu.nl

** Education free means that no scheduled teaching or examinations take place on the VU campus. Exceptions may include: fieldwork, internship and research courses

Resits	P1	P2	P3	P4	P5	P6
Information Sciences	wk 2	wk 7/8/9	wk 14	wk 23	wk 27	wk 29/33
Natural Sciences and Mathematics	wk 2	wk 7/8/9	wk 14	wk 23	wk 27	wk 29/33
Health and Life Sciences	wk 2	wk 7/8/9	wk 14	wk 23	wk 27	wk 29/33
Earth, Ecological and Environmental Sciences	wk 2	wk 7/8/9	wk 14	wk 23	wk 27	wk 29/33