Structure of the 2Y MA Programme

Master of Science in Applied Sciences and Engineering: Computer Science /
Master of Science in de Ingenieurswetenschappen: Computerwetenschappen

120 ECTS **(European Credit Transfer System)** **~ 2 Academic Years**

Courses	Year	ECTS
6 mandatory courses	1 *	30
research training + thesis	2	30
mandatory courses within profile	1 + 2	30 or more
electives within profile		
electives from other profiles, other electives	1 + 2	rest

* You can postpone some of these until Year 2

** If you wish to do more than 120ECTS, you have to pay more and you must(!) pass all subjects

Exam Schedules may play a role in your choice: <u>we.vub.ac.be</u>

You can graduate in ((January **xor** July) or September)

↪ You **must** register for January!

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Composing Your MA Programme

Requirements for obtaining the diploma (verified at the end of 2nd year):
You need to **pass 120 ECTS** (i.e. 10/20 for all the courses, no exceptions!)
All **compulsory** courses (= 30 ECTS)
All mandatory courses of your profile
At least **30 ECTS** in your **profile** (including the mandatory ones)
Done a **thesis & research training** (= 6+24 ECTS) in your profile

Typical 1st year:
Take all/most mandatory courses = 30 ECTS
Choose other courses, within and/or outside your profile = 30 ECTS
Profile choice is only preliminary (actual decision in 2nd year)

Electives (all but 6 ECTS) need to come from the CS curriculum:
Cf. https://www.vub.be/en/study/applied-sciences-and-engineering-computer-science#programme *(or Dutch equivalent)*

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Some courses have prerequisites **and/or** require prior knowledge
→ read course description;
→ 'special electives with limited access' (see below)

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Example 1: "I know what I want: XX"

1st year

All mandatory courses:	30 ECTS
All mandatory courses within the XX profile:	24 ECTS
An elective within the XX profile:	6 ECTS

Total: 60 ECTS in 1st year

2nd year

Research training and thesis with XX professor:	30 ECTS
Electives related to thesis:	30 ECTS

Total: 60 ECTS in 2nd year

- *Think about the balance between 1st and 2nd semester*
- *Think about prerequisites and/or prior knowledge*
- *Make sure chosen courses don't overlap in the timetables*
- *Look at the exam schedules (available on we.vub.ac.be)*
- *Postpone courses to the 2nd year if necessary*
- *Don't take too much course work in 4th semester*

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Example 2: "Can't decide just yet…"

1st year

All mandatory courses:	30 ECTS
Some mandatory courses within the YY profile:	18 ECTS
Some mandatory courses within the ZZ profile:	12 ECTS

Total: 60 ECTS in 1st year

2nd year

Research training and thesis with ZZ professor:	30 ECTS
Rest of mandatory courses within the ZZ profile:	6 ECTS
Electives based on personal preferences:	24 ECTS

Total: 60 ECTS in 2nd year

- *Think about the balance between 1st and 2nd semester*
- *Think about prerequisites and/or prior knowledge*
- *Make sure chosen courses don't overlap in the timetables*
- *Look at the exam schedules (available on we.vub.ac.be)*
- *Postpone courses to the 2nd year if necessary*
- *Don't take too much course work in 4th semester*

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Special Electives with Limited Access

Certain **Master electives** were already taken by many students in their Bachelor. They obviously cannot choose them again ⇒

"Electives conditional to the agreement of the examination committee"

However, in case you never took the ones in blue, you "must" take those in year 1 of your MA programme (depending on your specialisation):

Artificial intelligence
Machine learning
(Techniques of artificial intelligence)
Multimedia
Multimedia processing tools
Software languages and software engineering
Higher Order Programming (~ Structure & Interpretation of CPs)
(Interpretation of computer programs 2)
Web and information systems
Web Technologies

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