

## Course Overview for the Master's Programme in Sustainable Energy Systems, 120 credits

Programme code: AMM02

### Valid for the academic year 2023/2024

This is a translation of the original course overview in Swedish which has been examined and approved by the study director at School of Business, Society and Engineering, 2023-02-13

### About the course overview

Each study programme has a set programme syllabus in which, among other things, all courses included in the programme are stated, divided into academic years. The programme syllabus is complemented annually with a course overview in which is stated the study period the course is given, in which campus city it is given, whether it collides with another course etc. The course overview is valid for one academic year at a time.

C1, C2 etc. in the study period columns refer to the timetable positions and show whether the courses collide or not. Courses with the same C value collide, and courses with different C values do not collide. Courses with the "X" value may collide with other courses within the study period.

The following applies to current C value.

C1 = monday pm + wednesday am

C2 = monday am + thursday am

C3 = tuesday am + thursday pm

C4 = tuesday pm + friday am

C5 = wednesday pm + friday pm

In the column "pg/comp" "pg" indicates that you have guaranteed admission to the course for that particular study period and that programme semester. "comp" indicates that you are applying in competition with all the other programme students at MDH. In the column for "city" "E" indicates that the course is given in Eskilstuna and "V" that it is given in Västerås.

## Level classification of progressive specialisation

The University uses the following designations for classification of progressive specialisation, where “G” indicates that the course is part of a programme at first-cycle level and “A” that the course is part of a programme at second-cycle level:

G1N	course with only upper secondary entry requirements
G1F	course with less than a 60-credit course/ course at first-cycle level as entry requirements
G1E	course containing a specially designed degree project for a Higher Education Diploma
G2F	course of at least 60 credits / courses at first-cycle level as entry requirements
G2E	course of at least 60 credits / courses at first-cycle level as entry requirements and which contain a degree project for a Bachelor’s degree
GXX	course which cannot be classified according to the above model
A1N	course with only course/courses at first-cycle level as entry requirements
A1F	course with course/courses at second-cycle level as entry requirements
A1E	course containing a degree project for a Master’s degree of 60 credits
A2E	course containing a degree project for a Master’s degree of 120 credits
AXX	course which cannot be classified according to the above model

## Choice within the programme

There are no choices within the program. The students are admitted to all courses within the program.

## Other information

The courses are given in English.

### Terms 1 and 2 for programmes starting in the autumn term 2023

Title/Course name	Course code	Level/ Specialisation	Credits	Study periods								pg/ comp	Rate of study, city
				HT1		HT2		VT1		VT2			
				a	b	a	b	a	b	a	b		
<b>Energy Engineering</b>													
Introduction to sustainable energy system	ERA217	G2F	7,5	C4	C4							Pg	Part time V
International energy systems	ERA301	A1N	7,5					C1	C1			Pg	Part time V
Process modelling	ERA311	A1N	7,5					C2	C2			Pg	Part time V
Process simulation	ERA312	A1N	7,5							C1 C3 C4	C1 C3 C4	Pg	Part time V
Process optimization	ERA320	A1N	7,5							C2	C2	Pg	Part time V
<b>Mathematics/Applied Mathematics</b>													
Numerical methods with MATLAB	MAA042	G1F	7,5	C1 C5 <sup>1</sup>	C1 C5 <sup>1</sup>							Pg	Part time V
Applied matrix analysis	MAA704	A1N	7,5			C4 <sup>2</sup>	C4 <sup>2</sup>					Pg	Part time V
<b>Computer Science</b>													
Programming	DVA117	G1N	7,5			C1 C3	C1 C3					Pg	Part time V

<sup>1</sup>C1+Fridaypm

<sup>2</sup>C4+wednesday pm

### Terms 3 and 4 for programmes starting in the autumn term 2022

Title/Course name	Course code	Level/ Specialisation	Credits	Study periods								pg/ comp	Rate of study, city
				1		2		3		4			
				a	b	a	b	a	b	a	b		
<b>Energy Engineering</b>													
Sustainable Energy Systems - Advanced studies	ERA306	A1F	20	C2 C5	C2 C5	C2 C5	C2 C5					pg	Part time V
Sustainable Energy Systems - Project	ERA305	A1F	10	C3	C3	C3	C3					pg	Part time V
Degree Project in Sustainable Energy Systems	ERA401	A2E	30					X	X	X	X	pg	Full time V