

## **Secondary School Teacher Programme with a specialization in Teaching in the Upper-Secondary School**

Ämneslärarprogrammet med inriktning mot arbete i  
gymnasieskolan  
330 credits

L1AGY

Valid from: 2024 Autumn semester

**Determined by**

The Board of Educational Science

**Date determined**

2020-06-04

**Revised by**

Course Syllabus Board at the Faculty of Educational Sciences

**Revision date**

2021-02-08; 2021-05-25; 2022-03-08; 2023-09-07; 2023-12-19

**Registration number**

LiU-2023-00186; LiU-2023-03333; LiU-2022-00831; LIU-2020-02080; LiU-2021-00869; LiU-2021-01088

**Offered first time**

Autumn semester 2016

**Offered for the last time**

**Replaced by**

## Entry requirements

### Degree in Swedish

Ämneslärarexamen med inriktning mot arbete i gymnasieskolan

Vid utökad studiegång: Filosofie masterexamen i pedagogiskt arbete med ämnesdidaktisk inriktning

### Degree in English

Master of Arts in Upper Secondary Education

Master of Science in Upper Secondary Education

Master of Arts in Pedagogic Practices Specializing in Subject-Specific Education

# Curriculum

## Semester 1 (Autumn 2025)

*Specialisation: Subject: Mathematics*

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
975G01	Educational Sciences 1, Didactics	5	GXX	v202534-202537	-	C
975G07	Educational Sciences 2, Development and Learning	8.5	GXX	v202537-202542	-	E
91MA13	Mathematics: Foundation Course in Mathematics	6	GXX	v202537-202543	-	E
91MAV1	Mathematics: Teaching practicum	1.5	GXX	v202537-202543	-	E
91MA16	Mathematics: Mathematics Education 1	5.5	GXX	v202537-202602	-	E
975GV7	Educational Sciences, Teaching Practice	1.5	GXX	v202543-202543	-	E
975G03	Educational Sciences 3, Knowledge Assessment	7.5	GXX	v202544-202548	-	E
91MA14	Mathematics: One Variable Calculus 1	6	GXX	v202544-202602	2	E
91MA15	Mathematics: Linear Algebra	6	GXX	v202544-202602	-	E
975G04	Educational Sciences 4, History of Education, Societal role and values	7.5	GXX	v202549-202603	-	E

## Semester 2 (Spring 2026)

*Specialisation: Subject: Mathematics*

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
91BI11	Biology (1-15 cr)	15	GXX	v202603-202612	-	E
9GMA04	Mathematics, Calculus in One Variable 2	6	GXX	v202603-202612	1	E
9GMA05	Mathematics: Statistics	5	GXX	v202603-202612	-	E
91MA32	Mathematics: Programming with a Mathematical and Didactical Perspective	6	GXX	v202603-202622	4	E
91EN13	English 1-30 credits	30	GXX	v202604-202623	-	E
91MA33	Mathematics: Mathematics Education 2	5	GXX	v202604-202623	-	E
91SH13	Social Science (1-30 Credits)	30	GXX	v202604-202623	-	E
91SV13	Swedish (1-30 cr)	30	GXX	v202604-202623	-	E
91BI21	Biology (16-30 cr)	15	GXX	v202613-202622	-	E
9GMA08	Mathematics: Calculus in Several Variables	8	GXX	v202613-202622	2	E

## Semester 3 (Autumn 2026)

*Specialisation: Subject: Mathematics — Preliminary courses*

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
92FS11	Philosophy (1-15 cr)	15	GXX	-	-	E
92FS21	Philosophy (16-30 cr)	15	GXX	-	-	E
92GE01	Geography (1-30 cr)	30	GXX	-	-	E
92KE11	Chemistry (1-15 cr)	15	GXX	-	-	E
92KE21	Chemistry (16-30 cr)	15	GXX	-	-	E
92MA12	Mathematics: Geometry	5	GXX	-	-	E
92MA13	Mathematics: Foundation Course in Mathematics	6	GXX	-	-	E
92MA14	Mathematics: One Variable Calculus 1	6	GXX	2	-	E
92MA15	Mathematics: Linear Algebra	6	GXX	-	-	E
92MA16	Mathematics: Mathematics Education 1	5.5	GXX	-	-	E
92MAV1	Mathematics: Teaching practice (17-18 cr)	1.5	GXX	-	-	E
92NK11	Natural Science (1-15 cr)	15	GXX	-	-	E
92NK21	Natural Science (16-30 cr)	15	GXX	-	-	E
92RE13	Religious Studies (1-15 Cr)	15	GXX	-	-	E
92RE23	Religious Studies (16-30 Cr)	15	GXX	-	-	E
92SA13	Swedish as a second language 1-30 cr	30	GXX	-	-	E
975G03	Educational Sciences 3, Knowledge Assessment	7.5	GXX	-	-	E
975G04	Educational Sciences 4, History of Education, Societal role and values	7.5	GXX	-	-	E
975G07	Educational Sciences 2, Development and Learning	8.5	GXX	-	-	E
975GVM	Educational Sciences, Teaching Practice	1.5	GXX	-	-	E

## Semester 4 (Spring 2027)

### *Specialisation: Subject: Mathematics – Preliminary courses*

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
92FRLV	French: Teaching Practice	7.5	GXX	-	-	E
92FS31	Philosophy (31-37,5 cr)	7.5	GXX	-	-	E

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
92FS41	Philosophy (46-60 cr)	15	GXX	-	-	E
92FSV3	Philosophy: Teaching Practice (38-45 cr)	7.5	GXX	-	-	E
92FY11	Physics (1-15 cr)	15	GXX	-	-	E
92FY21	Physics (16-30 cr)	15	GXX	-	-	E
92GE33	Geography (31-52,5 cr)	22.5	GXX	-	-	E
92GEV3	Geography, Teaching Practice (52,5-60 cr)	7.5	GXX	-	-	E
92KE33	Chemistry (31-45 cr)	15	GXX	-	-	E
92KE41	Chemistry (53-60 cr)	7.5	GXX	-	-	E
92KEV3	Chemistry: Teaching Practice (46-52,5 cr)	7.5	GXX	-	-	E
92MA32	Mathematics: Programming with a Mathematical and Didactical Perspective	6	GXX	-	-	E
92MA33	Mathematics Mathematics Education 2	5	GXX	-	-	E
92NK31	Natural Science (31-41,5 cr)	11.5	GXX	-	-	E
92NK41	Natural Science (50-60 cr)	11	GXX	-	-	E
92NKV3	Natural Science; Teaching Practice (42-49 cr)	7.5	GXX	-	-	E
92RE33	Religious Studies (31-37,5 Credits)	7.5	GXX	-	-	E
92RE43	Religious Studies (46-60 Credits)	15	GXX	-	-	E
92REV3	Religious Education: Teaching Practice (37,5-45 cr)	7.5	GXX	-	-	E
92SA33	Swedish as a second language 31-52,5 cr	22.5	GXX	-	-	E
92SAV3	Swedish as a Second Language: Teaching Practice (46-52,5 cr)	7.5	GXX	-	-	E
92SPLV	Spanish: Teaching Practice	7.5	GXX	-	-	E
92TYLV	German: Teaching Practice	7.5	GXX	-	-	E
9GMA04	Mathematics, Calculus in One Variable 2	6	GXX	1	-	E
9GMA05	Mathematics: Statistics	5	GXX	-	-	E
9GMA08	Mathematics: Calculus in Several Variables	8	GXX	2	-	E

## Semester 5 (Autumn 2027)

### *Specialisation: Subject: Mathematics – Preliminary courses*

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
92MA12	Mathematics: Geometry	5	GXX	-	-	E
93BI31	Biology (38-45 cr)	7.5	GXX	-	-	E
93BI32	Biology (31-37,5 cr)	7.5	GXX	-	-	E
93BI41	Biology (46-60 cr)	15	GXX	-	-	E
93EN33	English 31-52.5 credits	22.5	G2X	-	-	E
93ENV2	Teaching Practice in English 7.5 credits	7.5	GXX	-	-	E
93FY31	Physics (31-37,5 cr)	7.5	GXX	-	-	E
93FY41	Physics (46-60 cr)	15	GXX	-	-	E
93FYV3	Physics: Teaching Practice (37,5-45 cr)	7.5	G1X	-	-	E
93SH33	Social Science (31-52,5 cr)	22.5	GXX	-	-	E
93SHV3	Social Science, Teaching Practice, (53-60 hp)	7.5	GXX	-	-	E
93SV33	Swedish (31-52,5 cr)	22.5	GXX	-	-	E
93SVV3	Swedish: Teaching Practice (53-60 cr)	7.5	GXX	-	-	E
975G03	Educational Sciences 3, Knowledge Assessment	7.5	GXX	-	-	E
975G04	Educational Sciences 4, History of Education, Societal role and values	7.5	GXX	-	-	E
975G07	Educational Sciences 2, Development and Learning	8.5	GXX	-	-	E
975GVM	Educational Sciences, Teaching Practice	1.5	GXX	-	-	E



## Semester 6 (Spring 2028)

*Specialisation: Subject: Mathematics — Preliminary courses*

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
93BI52	Biology (61-67,5 cr)	7.5	GXX	-	-	E
93BI61	Biology (76-90 cr)	15	GXX	-	-	E
93BIV3	Biology: Teaching Practice (68-75 cr)	7.5	GXX	-	-	E
93EN53	English (61-90 cr)	30	GXX	-	-	E
93MA52	Mathematics: Mathematics Education 3	8	GXX	-	-	E
93MA53	Mathematics: Introduction to Operations Research	4	GXX	-	-	E
93MA55	Mathematics: Calculus, theoretical foundation for secondary mathematics teaching	4	GXX	-	-	E
93MAV3	Mathematics: Teaching Practice (69-74 cr)	6	GXX	-	-	E
93SH54	Social Science (61-90 Credits)	30	GXX	-	-	E
93SV51	Swedish (61-90 cr)	30	GXX	-	-	E
9GMA10	Mathematics (76-83 cr)	8	GXX	-	-	E

## Semester 7 (Autumn 2028)

*Specialisation: Subject: Mathematics — Preliminary courses*

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
93FS53	Philosophy (61-75 cr)	15	GXX	-	-	E
93FS63	Philosophy (61-71 credits)	15	GXX	-	-	E
93FS73	Philosophy (76-90 cr)	15	GXX	-	-	E
93FS83	Philosophy (76-90 cr)	15	GXX	-	-	E
93GE53	Geography (61-90 cr)	30	GXX	-	-	E
93KE51	Chemistry (61-75 cr)	15	GXX	-	-	E
93KE61	Chemistry (76-90 cr)	15	GXX	-	-	E
93NK51	Natural Science (61-75 cr)	15	GXX	-	-	E
93NK61	Natural Science (76-90 cr)	15	GXX	-	-	E
93RE53	Religious Studies (61-75)	15	GXX	-	-	E
93RE63	Religious Studies (76-90)	15	GXX	-	-	E
93SA53	Swedish as a second language (61-90 cr)	30	GXX	-	-	E
93UK51	Educational Sciences 5, Social Relations and Teachers' Leadership	7.5	GXX	-	-	E
93UK82	Educational Sciences, Theory of Science and Research Methods	7.5	GXX	-	-	E
93XBI1	Thesis, Biology 1	15	GXX	-	-	E
93XEN1	Thesis, English 1	15	GXX	-	-	E
93XFY1	Thesis, Physics 1	15	GXX	-	-	E
93XMA1	Thesis, Mathematics 1	15	GXX	-	-	E
93XSH1	Thesis, Social Science 1	15	GXX	-	-	E
93XSV1	Thesis, Swedish 1	15	GXX	-	-	E
975A11	Theory and Method in Scientific Work: Qualitative analysis	7.5	A1N	-	-	E

## Semester 8 (Spring 2029)

*Specialisation: Subject: Mathematics — Preliminary courses*

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
93BI52	Biology (61-67,5 cr)	7.5	GXX		-	E
93BI61	Biology (76-90 cr)	15	GXX		-	E
93BIV3	Biology: Teaching Practice (68-75 cr)	7.5	GXX		-	E
93EN53	English (61-90 cr)	30	GXX		-	E
93MA52	Mathematics: Mathematics Education 3	8	GXX		-	E
93MA53	Mathematics: Introduction to Operations Research	4	GXX		-	E
93MA54	Mathematics: Transform Theory	4	G2X		-	E
93MA55	Mathematics: Calculus, theoretical foundation for secondary mathematics teaching	4	GXX		-	E
93MAV3	Mathematics: Teaching Practice (69-74 cr)	6	GXX		-	E
93UK51	Educational Sciences 5, Social Relations and Teachers' Leadership	7.5	GXX		-	E
93UK82	Educational Sciences, Theory of Science and Research Methods	7.5	GXX		-	E
93XFS1	Thesis, Philosophy 1	15	GXX		-	E
93XGE1	Thesis, Geography 1	15	GXX		-	E
93XKE1	Thesis, Chemistry 1	15	GXX		-	E
93XMA1	Thesis, Mathematics 1	15	GXX		-	E
93XNK1	Thesis, Natural Science 1	15	GXX		-	E
93XRE1	Thesis, Religious education 1	15	GXX		-	E
93XSA1	Thesis, Swedish as a second language 1	15	GXX		-	E
975A12	Theory and Method in Scientific Work: Statistics for teachers	7.5	AXX		-	E
9GMA10	Mathematics (76-83 cr)	8	GXX		-	E

## Semester 9 (Autumn 2029)

*Specialisation: Subject: Mathematics — Preliminary courses*

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
975A13	Didactics and Teaching Development	15*	AXX		-	E
975AX1	Master's thesis in pedagogic practices specializing in subject-specific education	30*	A1N		-	E
9AMA74	Mathematics (91-105 Credits)	15	AXX		-	C
9AUK62	Educational Sciences, Special Needs Education	7.5	AXX		-	E
9AUK71	Educational Sciences 7, School Development and Evaluation	9*	AXX		-	E

## Semester 10 (Spring 2030)

*Specialisation: Subject: Mathematics — Preliminary courses*

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
975A13	Didactics and Teaching Development	15*	AXX		-	E
975AX1	Master's thesis in pedagogic practices specializing in subject-specific education	30*	A1N		-	E
9AUK71	Educational Sciences 7, School Development and Evaluation	9*	AXX		-	E
9AVFU3	Teaching Practice	13.5	AXX		-	C
9AXBI1	Thesis in Biology 2	15	AXX		-	E
9AXEN1	Thesis in English 2	15	AXX		-	E
9AXFS1	Thesis in Philosophy 2	15	AXX		-	E
9AXFY1	Thesis in Physics 2	15	AXX		-	E
9AXGE1	Thesis in Geography 2	15	AXX		-	E
9AXKE1	Thesis in Chemistry 12	15	AXX		-	E
9AXMA1	Thesis in Mathematics 2	15	AXX		-	E
9AXNK1	Thesis in Natural Science 2	15	AXX		-	E
9AXRE1	Thesis in Religious Studies 2	15	AXX		-	E
9AXSA1	Thesis in Swedish as a Second Language 2	15	AXX		-	E
9AXSH1	Thesis in Social Science 2	15	AXX		-	E
9AXSV1	Thesis in Swedish 2	15	AXX		-	E

ECV = Elective / Compulsory / Voluntary

\*Kursen läses över flera terminer