

Secondary School Teacher Programme with a specialization in Teaching in the Upper- Secondary School, subject Mathematics

300 credits

Ämneslärarprogrammet med inriktning mot arbete i
gymnasieskolan, ingång Matematik

L1GMA

Valid from: 2015 Autumn semester

Determined by
The Board of Educational Science

Date determined
2010-05-20

Revision date
2015-03-19

Entry requirements

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Degree in Swedish

Ämneslärarexamen med inriktning mot arbete i gymnasieskolan

Degree in English

Degree of Bachelor of Arts in Upper Secondary Education

Degree of Bachelor of Science in Upper Secondary Education

Curriculum

Semester 1 (Autumn 2015)

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|--------------------------------------|---------|-------|-------|-----|
| 91MAD1 | Mathematcis Education 1 | 5.5 | G1X | | |
| 91MAV1 | Mathematics: Teaching practicum | 1.5 | G1X | | |
| 975G01 | Educational Sciences 1, Didactics | 5 | G1X | | |
| 9GMA01 | Mathematics: Algebra | 6 | G1X | | |
| 9GMA02 | Mathematics: One variable calculus 1 | 6 | G1X | | |
| 9GMA03 | Mathematics: Linear algebra | 6 | G1X | | |

Semester 2 (Spring 2016)

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|--|---------|-------|-------|-----|
| 91MAD3 | Mathematics Education 2 | 6 | G1X | | C |
| 9GMA04 | Mathematics, Calculus in One Variable 2 | 6 | G1X | | |
| 9GMA05 | Mathematics, Statistics | 5 | G1X | | |
| 9GMA07 | Mathematics, History of Mathematics | 3 | G1X | | |
| 9GMA08 | Mathematics, Calculus in Several Variables | 8 | G1X | | E |

Semester 3 (Autumn 2016)

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|--|---------|-------|-------|-----|
| 92F1V1 | French, Teaching Practise | 2.5 | G1X | | |
| 92FR11 | French (1-27,5) | 27.5 | G1X | | |
| 92FS11 | Philosophy (1-15) | 15 | G1X | | |
| 92FS21 | Philosophy (16-30) | 15 | G1X | | E |
| 92GE01 | Geography (1-30) | 30 | G1X | | |
| 92KE11 | Chemistry (1-15) | 15 | G1X | | |
| 92KE21 | Chemistry (16-30) | 15 | G1X | | E |
| 92NK11 | Natural Science (1-15) | 15 | G1X | | |
| 92NK21 | Natural Science (16-30) | 15 | G1X | | |
| 92RE11 | Religious Education (1-15) | 15 | G1X | | |
| 92RE21 | Religious Education (16-30) | 15 | G1X | | |
| 92S1V1 | Spanish, Teaching Practise | 2.5 | G1X | | E |
| 92SP11 | Spanish (1-27.5) | 27.5 | G1X | | E |
| 92T1V1 | German, Teaching Practise | 2.5 | G1X | | E |
| 92T1V2 | Technology: Teaching Practise (28-30) | 3 | G1X | | |
| 92TK11 | Technology (1-15) | 15 | G1X | | |
| 92TK21 | Technology (16-27) | 12 | G1X | | |
| 92TY11 | German (1-27,5 hp) | 27.5 | G1X | | |
| 975G03 | Educational Sciences 3, Knowledge Assessment | 7.5 | G1X | | |
| 975G04 | Educational Sciences 4, History of Education, Societal role and values | 7.5 | G1X | | |
| 975G07 | Educational Sciences 2, Development and Learning | 8.5 | G1X | | C |
| 975GV7 | Educational Sciences, Teaching Practise | 1.5 | G1X | | |
| 9GMA09 | Mathematics: Geometry () | 5 | G1X | | E |

Semester 4 (Spring 2017)

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|----------------------------|---------|-------|-------|-----|
| 92E1V1 | English, Teaching Practise | 2.5 | G1X | | |
| 92FY11 | Physics (1-15 hp) | 15 | G1X | | E |
| 92FY21 | Physics (16-30 hp) | 15 | G1X | | |

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|--|---------|-------|----------------|-----|
| 92NKV3 | Natural Science; Teaching Practice (42-49), 7,5 ECTS Credits | 7.5 | G1X | | E |
| 92TK31 | Technology (31-40,5) | 10.5 | G1X | | E |
| 92TK41 | Technology (46-60) | 15 | G1X | | E |
| 92TKV3 | Technology: Teaching Practice (41-45), 4,5 ECTS Credits | 4.5 | G1X | | E |
| 92TYV3 | German: Teaching Practice, 5 ECTS Credits | 5 | G1X | | E |
| 92BI11 | Biology (1-15) | 15 | G1X | v201703-201710 | |
| 92KE31 | Chemistry (31-45) | 15 | G1X | v201703-201710 | E |
| 92RE31 | Religious Education (31-37,5) | 7.5 | G1X | v201704-201708 | E |
| 92NK31 | Natural Science (31-41,5) | 11.5 | G1X | v201704-201715 | E |
| 92GE31 | Geography (31-52,5) | 22.5 | G1X | v201704-201718 | E |
| 92EN11 | English (1-27,5 hp) | 27.5 | G1X | v201704-201723 | E |
| 92FR31 | French (31-55) | 25 | G1X | v201704-201723 | E |
| 92SH01 | Social Science: Didactics | 9 | G2X | v201704-201723 | E |
| 92SP31 | Spanish (31-55) | 25 | G1X | v201704-201723 | E |
| 92TY31 | German (31-55) | 25 | G1X | v201704-201723 | E |
| 9GSH01 | Social science: Political theory | 6 | G1X | v201705-201708 | |
| 92GEV3 | Geography, Teaching Practice, 7,5 ECTS Credits | 7.5 | G1X | v201707-201717 | E |
| 92REV3 | Religious Education: Teaching Practice, 7,5 ECTS Credits | 7.5 | G1X | v201709-201713 | E |
| 9GSH02 | Social Science: Sociology 1 | 7.5 | G1X | v201709-201713 | |
| 92BI21 | Biology (16-30) | 15 | G1X | v201712-201721 | |

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|---|---------|-------|----------------|-----|
| 92KE41 | Chemistry (53-60 hp) | 7.5 | G1X | v201712-201721 | E |
| 92KEV3 | Chemistry: Teaching Practice, 7,5 ECTS Credits | 7.5 | G1X | v201712-201721 | E |
| 9GSH03 | Social Science: Economics | 7.5 | G1X | v201714-201718 | |
| 92RE41 | Religious Education (46-60) | 15 | G1X | v201714-201723 | E |
| 92FRV3 | French: Teaching Practice (56-60), 5 ECTS Credits | 5 | G1X | v201716-201723 | E |
| 92NK41 | Natural Science (50-60) | 11 | G1X | v201716-201723 | E |
| 92FS31 | Philosophy (31-37,5) | 7.5 | G1X | v201804-201808 | E |
| 92FSV3 | Philosophy: Teaching Practice, 7,5 ECTS Credits | 7.5 | G1X | v201809-201813 | E |
| 92FS41 | Philosophy (46-60 hp) | 15 | G1X | v201814-201823 | E |
| 92SPV3 | Spanish, Teaching Practise | 5 | G1X | v201816-201823 | E |

Semester 5 (Autumn 2017)

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|--|---------|-------|----------------|-----|
| 93FY31 | Physics (31-37,5) | 7.5 | G2X | | |
| 93FY41 | Physics (46-60) | 15 | G2X | | |
| 93FYV3 | Physics: Teaching Practice (37,5-45), 7,5 ECTS Credits | 7.5 | G1X | | E |
| 975G04 | Educational Sciences 4, History of Education, Societal role and values | 7.5 | G1X | | E |
| 9GMA09 | Mathematics: Geometry () | 5 | G1X | v201734-201737 | C |
| 93BI32 | Biology (31-37,5 hp) | 7.5 | G2X | v201734-201738 | |
| 93SH02 | Social Science: Didactics | 7.5 | G2X | v201734-201738 | |
| 93EN31 | English (31-55) | 25 | G2X | v201735-201803 | |
| 93BI31 | Biology (38-45) | 7.5 | G1X | v201738-201741 | |
| 93ENV4 | English: teaching practice (59-60) | 2 | G2X | v201739-201740 | E |
| 975G07 | Educational Sciences 2, Development and Learning | 8.5 | G1X | v201739-201743 | E |
| 9GSH04 | Social Science: Swedish politics | 7.5 | G1X | v201739-201743 | |
| 93ENV3 | English: Teaching Practice (56-58,5), 3 ECTS Credits | 3 | G2X | v201739-201749 | E |
| 975GV7 | Educational Sciences, Teaching Practise | 1.5 | G1X | v201741-201741 | E |
| 975G03 | Educational Sciences 3, Knowledge Assessment | 7.5 | G1X | v201744-201748 | E |
| 93BI41 | Biology (46-60) | 15 | G1X | v201744-201751 | |
| 9GSH05 | Social science: International politics | 7.5 | G1X | v201744-201803 | E |
| 93SHV9 | Social Science, Teaching Practice, (46-52,5 hp) | 7.5 | G1X | v201745-201749 | E |

Semester 6 (Spring 2018)

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|---|---------|-------|----------------|-----|
| 93FY51 | Physichs (61-75 cr) | 15 | G2X | | E |
| 93FY61 | Physics (76-90 cr) | 15 | G2X | | E |
| 93TY51 | German (61-90 cr) | 30 | G2X | | E |
| 93BI52 | Biology (61-67,5 cr) | 7.5 | G2X | v201803-201808 | C |
| 93MA51 | Mathematics (61-68,5 cr) | 7.5 | G2X | v201803-201811 | E |
| 93FS51 | Philosophy (61-75 cr) | 15 | G2X | v201804-201813 | E |
| 93FS61 | Philosophy (76-90 cr) | 15 | G2X | v201804-201813 | E |
| 93SH03 | Social Science: Didactics | 9 | G2X | v201804-201814 | E |
| 93EN51 | English (61-90 cr) | 30 | G2X | v201804-201823 | E |
| 93MAV3 | Mathematics: Teaching Practise (69-74 cr) | 6 | G2X | v201805-201810 | E |
| 93BIV3 | Biology: Teaching Practise (68-75 cr) | 7.5 | G2X | v201807-201812 | C |
| 9GSH07 | Social Science: Sociology 2 | 7.5 | G2X | v201809-201813 | |
| 9GMA12 | Mathematics (84-91,5) | 8.5 | G2X | v201812-201821 | E |
| 93BI61 | Biology (76-90 cr) | 15 | G2X | v201812-201822 | C |
| 9GMA10 | Mathematics (76-83 cr) | 8 | G2X | v201812-201822 | E |
| 93FS71 | Philosophy (76-90 cr) | 15 | G2X | v201814-201823 | E |
| 9GSH08 | Social science: Comparative politics | 6 | G2X | v201815-201818 | |
| 9GSH06 | Social Science: Economics | 7.5 | G2X | v201819-201823 | |

Semester 7 (Autumn 2018)

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|---|---------|-------|----------------|-----|
| 93FR51 | French (61-90 cr) | 30 | G2X | | E |
| 93NK51 | Natural Science (61-75 cr) | 15 | G2X | | E |
| 93NK61 | Natural Science (76-90 cr) | 15 | G2X | | E |
| 93RE53 | Religious Studies (61-75) | 15 | G2X | | E |
| 93RE63 | Religious Studies (76-90) | 15 | G2X | | E |
| 93SP51 | Spanish (61-90 cr) | 30 | G2X | | E |
| 93UK51 | Educational Sciences 5, Social Relations and Teachers' Leadership | 7.5 | G2X | v201834-201838 | E |
| 93GE51 | Geography (61-75 cr) | 15 | G2X | v201834-201843 | E |
| 93TK51 | Technology (61-75 cr) | 15 | G2X | v201834-201843 | E |
| 93KE51 | Chemistry (61-75 cr) | 15 | G2X | v201836-201842 | E |
| 93UK61 | Educational Sciences 6, Special Needs Education | 7.5 | G2X | v201839-201843 | E |
| 93GE61 | Geography (76-90 cr) | 15 | G2X | v201844-201903 | E |
| 93TK61 | Technology (76-90 cr) | 15 | G2X | v201844-201903 | E |
| 93XBI1 | Thesis, Biology | 15 | G2E | v201844-201903 | E |
| 93XEN1 | Thesis, English | 15 | G2E | v201844-201903 | E |
| 93XHI1 | Thesis, History | 15 | G2E | v201844-201903 | E |
| 93XMA1 | Thesis, Mathematics | 15 | G2E | v201844-201903 | E |
| 93XSH1 | Thesis, Social Science | 15 | G2E | v201844-201903 | E |
| 93XSV1 | Thesis, Swedish | 15 | G2E | v201844-201903 | E |
| 93KE61 | Chemistry (76-90 cr) | 15 | G2X | v201845-201851 | E |

Semester 8 (Spring 2019)

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|---|---------|-------|----------------|-----|
| 93UK51 | Educational Sciences 5, Social Relations and Teachers' Leadership | 7.5 | G2X | v201904-201908 | E |
| 93MA52 | Mathematics: Mathematics Education 3 | 8 | G2X | v201904-201912 | E |
| 93BI52 | Biology (61-67,5 cr) | 7.5 | G2X | v201904-201923 | |
| 93BI61 | Biology (76-90 cr) | 15 | G2X | v201904-201923 | E |
| 93BIV3 | Biology: Teaching Practise (68-75 cr) | 7.5 | G2X | v201904-201923 | C |
| 93EN51 | English (61-90 cr) | 30 | G2X | v201904-201923 | E |
| 93FS51 | Philosophy (61-75 cr) | 15 | G2X | v201904-201923 | E |
| 93FS61 | Philosophy (76-90 cr) | 15 | G2X | v201904-201923 | E |
| 93FS71 | Philosophy (76-90 cr) | 15 | G2X | v201904-201923 | E |
| 93FS81 | Philosophy (76-90 cr) | 15 | G2X | v201904-201923 | |
| 93FY51 | Physichs (61-75 cr) | 15 | G2X | v201904-201923 | E |
| 93FY61 | Physics (76-90 cr) | 15 | G2X | v201904-201923 | E |
| 93SH53 | Social Science (61-90 Credits) | 30 | G2X | v201904-201923 | E |
| 93TY51 | German (61-90 cr) | 30 | G2X | v201904-201923 | E |
| 9GMA10 | Mathematics (76-83 cr) | 8 | G2X | v201904-201923 | E |
| 93XSP1 | Thesis, Spanish | 15 | G2E | v201906-201919 | E |
| 93UK61 | Educational Sciences 6, Special Needs Education | 7.5 | G2X | v201909-201913 | E |
| 93MA53 | Mathematcs: Intriduction to Operations Research | 4 | G2X | v201913-201923 | E |
| 93MA54 | Mathematics: Transform Theory | 4 | G2X | v201913-201923 | E |

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|--------------------------------------|---------|-------|----------------|-----|
| 93XBI1 | Thesis, Biology | 15 | G2E | v201914-201923 | E |
| 93XEN1 | Thesis, English | 15 | G2E | v201914-201923 | E |
| 93XFR1 | Thesis, French | 15 | G2E | v201914-201923 | E |
| 93XFY1 | Thesis, Physics | 15 | G2E | v201914-201923 | E |
| 93XGE1 | Thesis, Geography | 15 | G2E | v201914-201923 | E |
| 93XHI1 | Thesis, History | 15 | G2E | v201914-201923 | E |
| 93XKE1 | Thesis, Chemistry | 15 | G2E | v201914-201923 | E |
| 93XMA1 | Thesis, Mathematics | 15 | G2E | v201914-201923 | E |
| 93XNK1 | Thesis, Natural Science | 15 | G2E | v201914-201923 | E |
| 93XRE1 | Thesis, Religious education | 15 | G2E | v201914-201923 | E |
| 93XSA1 | Thesis, Swedish as a second language | 15 | G2E | v201914-201923 | E |
| 93XSH1 | Thesis, Social Science | 15 | G2E | v201914-201923 | E |
| 93XSV1 | Thesis, Swedish | 15 | G2E | v201914-201923 | E |
| 93XTK1 | Thesis, Technology | 15 | G2E | v201914-201923 | E |
| 93XTY1 | Thesis, German | 15 | G2X | v201914-201923 | E |

Semester 9 (Autumn 2019)

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|--|---------|-------|----------------|-----|
| 9AMA01 | Mathematics: Numerical Methods (91-97,5 cr) | 7.5 | A1X | v201934-201944 | E |
| 9AMA73 | Mathematics (91-105 Credits) | 15 | A1X | v201934-202003 | C |
| 9AUK81 | Educational Sciences 8, Theory of science and research methods | 7.5 | A1X | v201944-201948 | C |
| 93XFS1 | Thesis, Philosophy | 15 | G2E | v201944-202003 | E |
| 9AUK71 | Educational Sciences 7: School Development and Evaluation | 9* | A1X | v201949-202004 | C |

Semester 10 (Spring 2020)

| Course code | Course name | Credits | Level | Weeks | ECV |
|-------------|---|---------|-------|----------------|-----|
| 9AUK71 | Educational Sciences 7: School Development and Evaluation | 9* | A1X | v201949-202004 | C |
| 9AXFR1 | Thesis in French | 15 | A1X | v202004-202023 | E |
| 9AXFY1 | Thesis in Physics | 15 | A1X | v202004-202023 | E |
| 9AXKE1 | Thesis in Chemistry | 15 | A1E | v202004-202023 | E |
| 9AXSP1 | Thesis in Spanish | 15 | A1E | v202004-202023 | E |
| 9AVFU3 | Teaching Practice | 13.5 | A1X | v202005-202014 | E |
| 9AXBI1 | Thesis in biology | 15 | A1X | v202008-202023 | E |
| 9AXMA1 | Thesis in Mathematics | 15 | A1X | v202010-202020 | E |
| 9AXFS1 | Thesis in Philosophy | 15 | A1X | v202014-202023 | E |
| 9AXGE1 | Thesis in Geography | 15 | A1X | v202014-202023 | E |
| 9AXHI1 | Thesis in History | 15 | A1X | v202014-202023 | E |
| 9AXNK1 | Thesis in Natural Science | 15 | A1X | v202014-202023 | E |
| 9AXRE1 | Thesis in Religious Studies | 15 | A1X | v202014-202023 | E |
| 9AXSH1 | Thesis in Social Science | 15 | A1X | v202014-202023 | E |
| 9AXSV1 | Thesis in Swedish | 15 | A1X | v202014-202023 | E |

ECV = Elective / Compulsory /Voluntary

*Kursen läses över flera terminer