

Opasraportti

KTK - Technologically Oriented Primary Teacher Education Programme 06-08 (2006 - 2008)

Tutkintorakenteisiin kuulumattomat opintokokonaisuudet ja -jaksot

411006A-07: Basic course in qualitative research, lecture + exercises (compensatory literature), 5 op
 406035A-01: 1st Year Practical Exercises, 3 op
 406035A-03: 2nd Year Practical Exercises, 2 op
 406031A-05: Accompaniment Instrument, 2 op
 408022S: Application of Research Methods to Technology Education Research, 4 op
 406034A-03: Applications of Electronics, 2 op
 406034A-02: Applications of mechatronics, 2 op
 406032A: Art, 7 op
 406032A-01: Art, First year, 1 op
 406032A-02: Art, Second year, 1 op
 407030A: Bachelor's Thesis, 9 op
 407030A-02: Bachelor's Thesis, 9 op
 410067P: Basic course in education, 4 op
 411006A-11: Basic course in qualitative research, 5 op
 411006A-10: Basic course in quantitative research, 5 op
 411006A-08: Basic course in quantitative research, lecture (compensatory literature), 2 op
 406036A: Basics of Art and Practical Education, 2 op
 408019S: Basics of educational administration, 2 op
 406028A: Biology, 2 op
 408016S: Context and Collaborative Relations in Education and Teaching, 5 op
 410019Y: Contrastive reading and writing, 2 op
 406034A: Crafts/Technical Work and Technology, 7 op
 406033A: Crafts/Textile Work and Technology, 7 op
 408015S: Curriculum and School Development, 5 op
 406037A-02: Device control, 1 op
 410068P: Didactics, 4 op
 406037A-01: Drama, 0,5 op
 406021A: Drama Education, 2 op
 410071P: Educational philosophy, 4 op
 410069P: Educational psychology, 4 op
 406024A: Ethics, 2 op
 406035A-02: Examination, 0 op
 405020Y: Foreign language and multiculturalism, 3 op
 405020Y-01: Foreign language and multiculturalism, first part, 1,5 op
 405020Y-02: Foreign language and multiculturalism, second part, 1,5 op
 406029A: Geography, 2 op
 407027A: Guidance of Learning, Planning and Evaluation of Teaching, 3 op
 406030A: Health Education, 1 op
 406022A: History, 3 op
 407029A: Infant and Primary Education, 3 op
 410014Y: Information and communication as a pedagogical tool, 3 op
 405024Y: Introduction to Theoretical Foundations and Practics in Technology Education, 4 op

- 406020A-02: Language and Writing, 4 op
 410069P-01: Lecture in educational psychology, 2 op
 406031A-03: Listening Education, 1 op
 406020A-01: Literature and Reading, 3 op
 410069P-02: Literature in educational psychology, 2 op
 408013S: Master's Thesis, 35 - 40 op
 406033A-01: Materials, Sewing and Clothing Technology, 3 op
 406025A: Mathematics Education: Part I, 3 op
 406026A: Mathematics Education: part II, 2 op
 408013S-01: Maturity Test, 30 op
 407030A-01: Maturity Test, 0 op
 406020A: Mother Tongue and Literature, 7 op
 A256402: Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education, 65 op
 410017Y: Multimedia as a learning project, 2 op
 406031A: Music, 8 op
 406031A-04: Music Theory in Practice, 1 op
 408014S: Optional Course, 5 op
 406037A: Optional Studies in Art and Practical Education, 2 - 6 op
 408025S: Optional Studies: Basics of Educational Administration, 1 op
 410075P: Orientation to Work at School, 2 op
 405023Y: Orientation to studies, 1 op
 406031A-01: Pedagogical Applications of Music Education, 3 op
 410076P: Pedagogical Seminar in Technology Education I, 3 op
 407034A: Pedagogical Seminar in Technology Education II, 3 op
 408023S: Pedagogical Seminar in Technology Education III, 3 op
 406033A-03: Pedagogical and Didactic Questions, 2 op
 407029A-01: Pedagogy of Preschool and Primary Education, 1,5 op
 406035A: Physical Education, 7 op
 406027A: Physics and Chemistry, 4 op
 405024Y-02: Practical Exercises, 3 op
 406023A: Religion, 2 op
 411006A: Research course I, 10 op
 Alternative
 411006A-01: a) 1. Basic course in quantitative research, lecture, 2 op
 411006A-02: a) 2. Statistical analysis, lecture, 2 op
 411006A-03: a) 3. Exercises, 1 op
 411006A-04: b) 1. Basic course in qualitative research, lecture, 3 op
 411006A-05: b) 2. Basic course in qualitative research, exercises, 2 op
 413005S: Research course II, 10 op
 407032A: School Experience II: Bachelor's Level, 6 op
 408020S: School Work in the Master Phase, 11 op
 407033A: Science Culture and Technology, 2 op
 410013Y: Scientific communication, 2 op
 410070P: Sociology of education, 4 op
 407026A: Special Education, 3 op
 410016Y: Speech communication and drama, 2 op
 411006A-09: Statistical analyses, lecture + exercises (compensatory literature), 3 op
 407024A: Teacher as a Pedagogical Thinker and Agent, 3 op
 407029A-02: Teaching to read and write, 1,5 op
 408021S: Theme-based Practice, 6 op
 405024Y-01: Theoretical Part, 1 op
 408013S-02: Thesis, 5 op
 406034A-01: Traditional Handicrafts in the Context of Technical Work, 3 op
 406033A-02: User-Centred Design and Manufacture as an Approach to Crafts and Technology Problems, 2 op
 406031A-02: Voice and Singing, 1 op
 413005S-01: a) 1. Advanced course in quantitative research, lecture, 3 op
 413005S-02: a) 2. Advanced course in quantitative research, exercises, 2 op
 413005S-05: a) Advanced Course in Quantitative Research Methods, 5 op
 411006A-06: a)2. Statistical analysis, lecture + exercises, 3 op
 413005S-03: b) 1. Advanced course in qualitative research, lecture, 2 op
 413005S-04: b) 2. Advanced course in qualitative research, exercises, 3 op
 413005S-06: b) Advanced Course in Qualitative Research Methods, 5 op

Opintojaksosten kuvaukset

Tutkintorakenteisiin kuulumattomien opintokokonaisuuksien ja -jaksojen kuvaukset

411006A-07: Basic course in qualitative research, lecture + exercises (compensatory literature), 5 op

Voimassaolo: 01.08.2005 - 31.07.2016

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406035A-01: 1st Year Practical Exercises, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406035A-03: 2nd Year Practical Exercises, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406031A-05: Accompaniment Instrument, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

408022S: Application of Research Methods to Technology Education Research, 4 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

406034A-03: Applications of Electronics, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406034A-02: Applications of mechatronics, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406032A: Art, 7 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Hakkola, Kirsti , , 1991

Kaitavuori, Kaija , , 2004

Karppinen, Seija (1) , , 2001

Koskenala, Hanna-Leena & Sabelström-Leppänen, Raija , , 2004

Ojala, Anita , , 2004

Ojala, Anita , , 1999

Opetushallitus , , 2004

Saari, Pirjo , , 2004

Saari, Pirjo , , 2005

Tolonen, Marjatta , , 2006

Tolonen, Marjatta , , 1998

Töyssy, Seppo , , 1999

Wetzer, Hannele , , 2000

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

5 - 6 credits

Language of instruction:

English

Timing:

.

Learning outcomes:

During this course, students' visual thinking will be enhanced using methods of visual expression, colour theory, composition and a range of techniques and materials, including drawing, painting, design and school graphics. The emphasis will be on experiences and emotions as well as on such skills relating to work, information retrieval, interpretation and evaluation as are part and parcel of visual arts. Course contents focus on examining and reflecting on didactic and pedagogical applications of visual art teaching and curriculum development.

Contents:

Visual Art Education

- Children's drawings and artistic development
- Visual arts in learning and teaching
- Core visual arts curriculum
- Thematic entities and assessment

Visual Cultures

- Knowledge of visual arts
- Artistic experiences and conceptions of art
- Artistic images and commercial images
- Cultural institutions and pedagogy

Media and Visual Communication

- Analysis and interpretation of images
- Advertising images, photographic images and film

Environment Education

- Perceptual and experiential environment
- Cultural and natural environment
- Architecture and design

Learning activities and teaching methods:

Lectures and work in small groups 84 h; independent work 78 h

Target group:

.

Recommended optional programme components:

.

Recommended or required reading:

Supplementary reading

Hakkola, K, Laitinen, S. & Ovaska-Airasmaa, M. (1991). *Lasten taidekasvatus*. Hämeenlinna: Kirjayhtymä Oy.

Karppinen, S., Puurula, A. & Ruokonen, I. (2001). *Taiteen ja leikin lumous*. Helsinki: Finn lectura.

Koskenala, H-L. & Sabelström-Leppänen. (2004) *Minä maalaan 2*. Tammi.

Khula Udweba. (1989). *A handbook about teaching art to children*. African institute of art.

Ojala, A. (1999). *Kuviskimara*. Tammi.

Ojala, A. (2004). *Kuviskimara 2*. Tammi.

Perusopetuksen opetussuunnitelman perusteet; kuvataide 2004. Helsinki: Opetushallitus.

Saari, P. (2004). *Kuvaamataidon ja käsityön ideoita*. Otava.

Saari, P. (2005). *Paletti 1*. Otava.

Tolonen, M. (1998). *Matka taiteen historiaan*. Helsinki: Tammi.

Turtiainen, M. & Raitmaa, M. (toim.) (2004). *KOPS Kiasman kiertokoulun opetussuunnitelma*. Nykytaiteen museon julkaisuja 91. Helsinki: Valtion taidemuseo.

Töyssy, S., Vartiainen, L. & Viitanen, P. (1999). *Kuvataide. Visuaalisen kulttuurin käsikirja*. Helsinki: WSOY.

Wetzer, H. (2000). *Värivaaka*. Helsinki: Tammi.

The availability of the literature can be checked in [this link](#).

Literature (in English): introduced by the lecturers at the beginning of the course.

Assessment methods and criteria:

Exercises and portfolio

Grading:

Exercises and portfolio (0 – 5)

Person responsible:

Minna Myllykangas ja Tapio Tenhu

406032A-01: Art, First year, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

406032A-02: Art, Second year, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

407030A: Bachelor's Thesis, 9 op

Voimassaolo: 01.08.2005 - 31.07.2015

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

442164A Bachelor's thesis 10.0 op

Ei opintojaksokuvauksia.

407030A-02: Bachelor's Thesis, 9 op

Voimassaolo: 01.08.2005 - 31.07.2015

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

410067P: Basic course in education, 4 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Rinne, Risto (1) , , 2004, pakollinen

Lisätiedot:

Rinne, Risto , , 2000, pakollinen

Lisätiedot:

Siljander, Pauli , , 2002, pakollinen

Lisätiedot:

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay410067P Basic course in education (OPEN UNI) 4.0 op

Ei opintojaksokuvauksia.

411006A-11: Basic course in qualitative research, 5 op

Voimassaolo: 01.08.2006 - 31.07.2012

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

411006A-10: Basic course in quantitative research, 5 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

411006A-08: Basic course in quantitative research, lecture (compensatory literature), 2 op

Voimassaolo: 01.08.2005 - 31.07.2016

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406036A: Basics of Art and Practical Education, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

English

Timing:

.

Learning outcomes:

.

Contents:

Students become acquainted with the basic philosophical and pedagogical principles and applications of art and practical education. This course combines practical skills with an art philosophical discussion, which takes the form of expert lectures organized in collaboration with the Youth and Culture Centre of Oulu. Practical activities are conducted in workshops by integrating art and practical education with other subjects and courses in the basic educational curriculum. The magic lamp method, developed in film education, is used a tool of integration. Students also become familiar with basic animation techniques.

Learning activities and teaching methods:

Small groups 14 h

Target group:

.

Recommended optional programme components:

.

Recommended or required reading:

Literature (in English) introduced by the lecturers at the beginning of the course.

Assessment methods and criteria:

.

Grading:

Pass/fail

Person responsible:

Minna Myllykangas and Pia Leppänen

408019S: Basics of educational administration, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406028A: Biology, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Ahtee, Maija , , 1994

Eloranta, Varpu, Jeronen, Eila & Palmberg, Irmeli (toim.) , , 2005

Harlen, Wynne , , 1996

Opetushallitus , , 2004

Virtanen, Lyyli , , 1989

Wellington, Jerry , , 2000

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

English

Timing:

2. academic year, spring term

Learning outcomes:

Biology is a part of natural science subjects. The goal of teaching and learning of the subjects is that the learners comprehend their responsibility of nature, constructed environments, themselves and other people. Students gather and construct information during the courses and develop skills for planning and implementing of teaching situations and environments so that the scientific thinking of a pupil and its development is possible from individual, interactive and collaborative perspectives.

During the course of biology, students examine organic and inorganic nature, human beings as a part of nature, and study the relations between them.

The course aims that students:

- Contemplate teaching-learning -views from the viewpoint of biology, and environmental and natural science teaching
- Get acquainted with planning, implementing and evaluation of biology, and environmental and natural science teaching
- Reflect their growth and development from the viewpoint of integrative health education and as a teacher of biology, and environmental and natural science studies.

Contents:

Content:

1. Introduction
 - Overview of the aims, contents and methods of completion of the course
 - The curriculum of biology
2. Biological base of life
 - Energy flow
 - Material cycle
 - Photo- and chemosynthesis
3. Plant morphology and physiology
 - Cells
 - Water and Nutrient Transport
 - Plant growth and reproduction
4. Animal anatomy and physiology
 - Cells
 - Tissues
 - Organs
5. Structure and function of the body and their examination
 - Structure of the body
 - Operation and regulation of organs, systems and organ systems
6. Genetics
7. Organisms and their environment

- 8. Biodiversity
 - Biomes and ecosystems
 - Phenology
 - Pollution
- 9. Health Education

Learning activities and teaching methods:

Method of teaching: 16 hours of contact teaching per subject. Different methods of sensitivity, science and value education are used during the courses.

Method of completing: Active participation in the contact teaching and a final exam. The exam can be replaced with some alternative method of completion agreed separately with the teacher responsible for the course.

Target group:

Recommended optional programme components:

Recommended or required reading:

The availability of the literature can be checked in [this link](#).

1. Peruskoulun opetussuunnitelman perusteet (biologian osalta) www.oph.fi
AND

2. Virtanen, L. & Kankaanrinta, I. (1989) Biologia koulussa. Helsinki: Yliopistopaino.

OR:

Ahtee, M., Kankaanrinta, I. & Virtanen, L. (1994) Luonnontieto koulussa. Helsinki: Otava.

OR:

Wynne, H. 1996. The teaching of Science in Primary Schools. London: David Fulton.

OR

Wellington, J. 1998. Secondary science. Contemporary issues and practical approaches. London: Routledge.

Assessment methods and criteria:

Grading:

0-5

Person responsible:

Eila Jeronen

408016S: Context and Collaborative Relations in Education and Teaching, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Day, Christopher & Sachs, Judyth (eds.), , 2004

Elbaz-Luwisch, Freema , , 2005

Sugrue, Ciaran & Day, Christopher (eds.), , 2002

Vandenbergh, Roland & Huberman, A. Michael (eds), , 1999

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

410019Y: Contrastive reading and writing, 2 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406034A: Crafts/Technical Work and Technology, 7 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Aadeli, Sirkka et al. (toim.), , 2004

Bendix, Friedrich , , 1974

Gibilisco, Stan , , 2006

Grönman, Olavi et al. (toim.), , 1989

Häti-Korkeila, Marjatta , , 1985

Kemppainen, Taisto (toim.), , 1978

Lavonen, Jari et al. (toim.), , 1995

Lavonen, Jari et al. (toim.), , 1997

Lindh, Matti , , 1985

Lindh, Matti , , 1990

Lindh, Matti (toim. & piirt.), , 1988

Norman, Eddie et al. (eds.), , 1995

Norman, Eddie et al. (eds.), , 2000

Ojala, Erkki & Räsänen, Jaakko (toim.), , 1990

Saari, Jorma , , 1982

Sahi, Timo et al. (toim.), , 2002

Scherz, Paul , , 2007

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

5 - 6 credits

Language of instruction:

English

Timing:

.

Learning outcomes:

Core curriculum in technical work encompasses knowledge and skills required to teach technical work in primary school.

These studies comprise three courses:

1. Traditional Handicraft in the Context of Technical Work (2 pts./ 1 cr.)
2. Mechatronic Applications 2 pts./ 1 cr.)
3. Electronics Applications (2 pts./ 1,5 cr.)

Emphasis on the first of these courses is on traditional handicraft. Through lectures and exercises, students familiarize themselves with common materials used in technical work and learn how to machine them. Work begins with individual design, written documentation is used during design and implementation, and products are directed toward application at the primary school level. The second course focuses on the application of basic mechatronic principles to technical work at the primary school level. Adopting a didactic approach, the course combines mechanical and electrical elements into technological constructs that can be brought under critical pedagogical scrutiny. The main goal of the third course is to lead students toward an understanding of the fundamental principles of electrical engineering and electronics through individual design, experimentation and construction. Students' didactic competence is developed with the primary school pupil in mind.

Contents:

Contents

1. Traditional Handicraft in the Context of Technical Work (2 pts./ 1 cr.)

- Students become familiar with common materials and their machine-tooling through lectures and exercises
- Starting point for work is individual design

- Using writing as a tool, design and implementation of work is directed toward application to technical work in primary schools
 - Course is offered in the autumn term of the first year
2. **Mechatronics Applications (2 pts./1 cr.)**
- Students learn to apply basic mechatronics principles to primary level technical work
 - Didactic starting point
 - Mechanical and electronic elements are combined into technological constructs that are assessed and analyzed in written reports
 - Course is offered in the spring term of the first year
3. **Electronics Applications (2 pts./1,5 cr.)**
- Students are guided toward an understanding of the fundamental principles of electrical engineering and electronics through individual design, experimentation and construction
 - Emphasis on developing didactic competence
 - Course is offered in the autumn term of the second year

Learning activities and teaching methods:

Working methods

- Traditional Handicraft in the Context of Technical Work: lectures 6 h, small groups 22 h,
- Electronics Applications: lectures 4 h, small groups 24 h
- Electronics Applications: lectures 6 h, small groups 22 h

Target group:

Recommended optional programme components:

Recommended or required reading:

- Bendix, F. (1974). *Metallialan perustyöt*. Porvoo: WSOY.
- Häti-Korkeila, M. & Kähönen, H. (1985). *Tuotesuunnittelun perusteita*. Porvoo, Helsinki, Juva: WSOY.
- Kemppainen, T. (toim.) (1989). *Puualan perusoppi 2. Puun rakenne ja ominaisuudet*. Helsinki: Otava.
- Aadeli, S. (2004). *Käsityön työturvallisuusopas teknisen työn ja tekstiilityön opetukseen*. Helsinki: Opetushallitus.
- Lavonen, J. & Lindh, M. & Antila, T. & Autio, O. (1995). *Elektroniikka omaksi*. Espoo: Weilin&Göös.
- Lavonen, J. & Lindh, M. & Autio, O. & Antila, T. (1997). *Elektroniikka omaksi: opettajan opas*. Helsinki: MFKA-kustannus.
- Lindh, M. (1985). *Luovuuden merkityksestä teknisessä työssä*. Oulu.
- Lindh, M. (1989). *Tekniikan taitaja*. Jyväskylä: Gummerus.
- Lindh, M. & Metsäkalla, J. (1991). *Tekniikan mestarit I*. Jyväskylä: Gummerus.
- Norman, E. & Cubitt, J. & Urry, S. & Whittaker, M. (1995). *Advanced Design and Technology. 2nd ed.* Harlow: Longman.
- Ojala, E. & Räsänen, J. (1991). *Puualan perusoppi 8: Kursoava työstö; viimeistely*. Helsinki: Otava.
- Opetushallitus (1989). *Tekninen piirustus 3. – 6*. Helsinki: Valtion painatuskeskus.
- Saari, J. (1982). *Ergonomian perusteet*. Vantaa: Työterveyslaitos.
- Sahi, T. (2003). *Ensiapuopas*. Helsinki: Duodecim: Suomen Punainen Risti.

The availability of the literature can be checked in [this link](#).

Literature (in English): introduced by the lecturers at the beginning of the course.

Assessment methods and criteria:

Grading:

0-5

- Mainly numerical grades, sometimes pass/fail
- Written and/or web-based materials produced during the course will be assessed for content and didactic methodology
- Instead of producing such materials, these studies may be completed by examination based on lecture materials and course books
- Material objects produced by students during exercises will be graded numerically paying particular attention to their pedagogical value and functional and aesthetic aspects
- Ratio between assessment of material objects and written materials is 2:1

Person responsible:

Teuvo Pussila

406033A: Crafts/Textile Work and Technology, 7 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Hyvönen, Leena & Lindfors, Eila (toim.), , 2001

Kantola, Jouko & Kananoja, Tapani (eds), , 2002

Pirjo Karhu, Maija Malmström, Tuula Mannila, , 2002

Kojonkoski-Rännäli, Seija , , 1998

Kullas, Sampsa & Pelkonen, Marja-Leena (eds.), , 2005

Opetushallitus, , 2004

Suojanen, Ulla , , 1993

Tapaninen, Reino (toim.), , 2002

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

5 - 6 credits

Language of instruction:

English

Timing:

.

Learning outcomes:

These studies aim at helping students to understand the role and responsibility of crafts as part of the educational mission of comprehensive school. Learning and teaching are approached from the traditions and current practices of crafts and textile work, with a focus on future challenges. Viewed both from an aesthetic and a technological perspective, textiles are seen as constituting the immediate environment of humans and as part of the constructed environment. Through a cooperative approach, students become acquainted with the contents of the subject area and technological problem solution. The scientific basis of textile work can be found in handicrafts science as well as crafts, art and technology education.

Contents:

Crafts/Textile Work and Technology studies comprise three courses:

1. **Material, sewing and clothing technology (2 pts./ 1 cr.)** In material technology, students consider textiles in terms of their fiber material and fabric structure and as products. Sewing and clothing technology is studied by making a garment from an elastic material and by lengthening the live span of another garment by repairing it. Students evaluate their own learning process both theoretically and practically using a portfolio.
2. **User-cantered design and production and problem solving in crafts and technology (2 pts./ 1 cr.)** This course familiarizes students with usercantered design and problem solving in crafts and technology. They collaborate to design and manufacture a functional prototype that solves a particular problem. Theoretical contents and practical processes are documented and analyzed using the portfolio approach. The course also includes excursions.
3. **Pedagogical and didactic considerations (2 pts./ 1,5 cr.)** Product design, manufacture and evaluation processes are viewed within the framework of crafts, technology and art education. Teaching is problem-based and learning is assessed by means of portfolios.

Learning activities and teaching methods:

Working methods

- Studies include teaching in large and small groups, individual work and partially optional participation in workshops
- Completion requires active participation
- Both theoretical and practical studies are documented in a partially digital, partially 3-dimensional pedagogical portfolio
- Theoretical knowledge can also be tested through an examination
- Part of studies are common to all craftsoriented courses (textile work and technology)
- Material, sewing and clothing technology: lectures 10 h, small groups 18 h, independent work 26 h
- User-cantered design and production and problem solving in crafts and technology: lectures 8 h, small groups 20 h, independent work 26 h
- Pedagogical and didactic considerations: lectures 10 h, small groups 18 h, independent work 26 h

Target group:

.

Recommended optional programme components:

Recommended or required reading:

- Karhu, P., Malmström, M. & Mannila, T. (2002). *Hyvä sauma*. Otava.
- Kojonkoski-Rännäli, S. (1998). *Työ tekijäänsä kiittää - totta toinen puoli*. Turun yliopisto. Kasvatustieteiden julkaisusarja A:189
- Lindfors, E. (2005). En teknologisk produkt i pedagogisk slöjd. Teoksessa Kullas, S. & Pelkonen, M-L. (Toim.) *The relationship of Nordic handicraft studies to product development and technology*. Techne Series. Research in Sloyd Education and Crafts Science B:14/2005, 239 – 250.
- Lindfors, E. (2003). Product evaluation in pedagogical context. Teoksessa C. Benson, M. Martin & W. Till (toim.) *Fourth international primary design and technology conference. Designing the future*. Centre for research in primary technology. University of Central England.
- Lindfors, E. (2002). Textiles and technology education. Teoksessa Kantola, J. & Kananoja, J. (toim.) *Looking at the future: Technical work in context of technology education*. University of Jyväskylä. Department of Teacher Education. Research 76, 118 – 128.
- Lindfors, E. (2001). Taide ja teknologia - näkökulmia käsityökasvatukseen tulevaisuuteen. Teoksessa L. Hyvönen & E. Lindfors (toim.) *Tehdään yhdessä! Taide- ja taitokasvatukseen tulevaisuus*. Oulun yliopisto. Kasvatustieteiden tiedekunta. Selosteita ja katsauksia 1/2001, 85 – 96.
- Perusopetuksen opetussuunnitelman perusteet: Käsityö*. (2004). Helsinki: Opetushallitus.
- Suojanen, U. (1993). *Käsityökasvatukseen perusteet*. Porvoo: WSOY.
- Tapaninen, R. (toim.) (2002). *Peruskoulun käsityön opetustilojen suunnitteluopas. Tekninen työ ja tekstiilityö*.

Muu kirjallisuus:

Luentomateriaali

Ajankohtaisia artikkeleita sopimuksen mukaan

The availability of the literature can be checked in [this link](#).

Additional literature: Lecture materials, topical articles as agreed

Literature (in English): introduced by the lecturers at the beginning of the course.

Assessment methods and criteria:

Grading:

0-5

- Evaluation consists of cooperative evaluation, peer evaluation, self-evaluation and evaluation by teacher
- Exercises are graded pass or fail
- Final assignment and teaching portfolio will be evaluated on the basis of agreed criteria and graded 0–5

Person responsible:

Jaana Anttonen

408015S: Curriculum and School Development, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Cornbleth, Catherine , , 1990

Doll, William E. Jr. , , 1993

Stoll, Louise , , 1996

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406037A-02: Device control, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opettajat: Lindh, Matti Otto Oskari
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

410068P: Didactics, 4 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Hakkarainen, Kai , , 1999, pakollinen

Lisätiedot:

Kansanen, Pertti , , 2004, pakollinen

Lisätiedot:

Rauste-von Wright, Maijaliisa , , 2003, pakollinen

Lisätiedot:

Rauste-von Wright, Maijaliisa , , 1994, pakollinen

Lisätiedot:

Uusikylä, Kari , , 2005, pakollinen

Lisätiedot:

Uusikylä, Kari , , 2000, pakollinen

Lisätiedot:

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay410068P Didactics: (OPEN UNI) 4.0 op

ECTS Credits:

4 credits

Language of instruction:

Finnish

406037A-01: Drama, 0,5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406021A: Drama Education, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

English

Timing:

.

Learning outcomes:

.

Contents:

This course focuses on the foundations of expressive education and drama pedagogy as well as on problems relating to the development of interaction skills. Drama is viewed both as a form of learning and as pedagogical communication.

Learning activities and teaching methods:

Small groups 24 h

Target group:

.

Recommended optional programme components:

.

Recommended or required reading:

Literature (in English) introduced by the lecturers at the beginning of the course.

Assessment methods and criteria:

.

Grading:

Pass/fail

Person responsible:

Kauko Komulainen

410071P: Educational philosophy, 4 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Atjonen, Päivi , , 2004, pakollinen

Lisätiedot:

Pitkänen, Pirkko , , 1996, pakollinen

Lisätiedot:

Puolimatka, Tapio , , 1996, pakollinen

Lisätiedot:

Puolimatka, Tapio , , 1995, pakollinen

Lisätiedot:

Vestergaard, Ebbe , , 1987, pakollinen

Lisätiedot:

Vestergaard, Ebbe , , 1985, pakollinen

Lisätiedot:

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay410071P Educational philosophy: (OPEN UNI) 4.0 op

ECTS Credits:

4 credits

410069P: Educational psychology, 4 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Dunderfelt, Tony , , 1997, pakollinen

Lisätiedot:

Dunderfelt, Tony , , 1991, pakollinen

Lisätiedot:

Lehtinen, Erno , , 2001, pakollinen

Lisätiedot:

Vuorinen, Risto , , 1990, pakollinen

Lisätiedot:

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay410069P Educational psychology: (OPEN UNI) 4.0 op

Ei opintojaksokuvauksia.

406024A: Ethics, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Airaksinen, Timo , , 1987

Kamppinen, Matti (toim.) , , 1987

Laurila, Aarne (toim.) , , 1979

Niiniluoto, Ilkka , , 1984

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

English

Timing:

.

Learning outcomes:

Students gain a holistic view of philosophy/ ethics as a subject taught in comprehensive and upper secondary school. They also acquire basic knowledge and skills for teaching ethics and philosophy in primary school.

Objectives of learning:

- Gaining a holistic view of philosophy/ethics as a subject taught in comprehensive and upper secondary school
- Acquiring basic knowledge and skills for teaching ethics and philosophy in primary school.

Contents:

Contents

- Philosophy/ethics as a subject in comprehensive school
- History of philosophy/ethics as a school subject
- Contents of the teaching curriculum
- Ethical commitments in teaching
- Practical organization of teaching
- Philosophy/ethics – what is it?
- Manifestation, structure and activity of philosophy/ethics

- Different philosophies of life
- Moral philosophical foundation of ethics and philosophy
- Central concepts in morality
- Moral values and justifications for their validity
- Characteristics and uses of morality
- Sense of morality and its development
- Features of moral thinking in different times
- Didactics of philosophy/ethics
- Concept of knowledge and learning
- Working methods and learning materials.

Learning activities and teaching methods:

Working methods

- All students familiarize themselves with the literature introduced by the lecturers
- Alternative modes of working include small groups (including planning of teaching, familiarization with and presentation of methods applicable to teaching ethics and philosophy, etc., at students' discretion).

Target group:

Recommended optional programme components:

Recommended or required reading:

The availability of the literature can be checked in [this link](#).

Agreed separately with the teacher responsible for the course.

Airaksinen, T. (1987). *Moraalifilosofia*. Otava.

ET. Elämänkatsomustieto. (1987). Gaudeamus.

Upper secondary school textbooks

Niiniluoto, T. (1984). *Tiede, filosofia ja maailmankatsomus*. Otava.

Nykyihmisen etiikka ja moraal. (1979). WSOY.

Literature (in English): Introduced by the lecturers at the beginning of the course.

Assessment methods and criteria:

Grading:

0-5

Person responsible:

Markku Salakka

406035A-02: Examination, 0 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

405020Y: Foreign language and multiculturalism, 3 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opettajat: Roberts Gordon

Opintokohteen kielet: English

405020Y-01: Foreign language and multiculturalism, first part, 1,5 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Language and Communication Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

405020Y-02: Foreign language and multiculturalism, second part, 1,5 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Language and Communication Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: English

Ei opintojaksokuvauksia.

406029A: Geography, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Haubrich, Hartwig (Hrsg.), , 2006

Opetushallitus, , 2004

Rikkinen, Hannele , , 1997

Rikkinen, Hannele (toim.), , 1998

Tilbury, Daniella & Williams, Michael (eds.), , 1997

Wiegand, Patrick , , 1993

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

English

Timing:

2. academic year, fall term

Learning outcomes:

Geography is a part of natural science subjects. The goal of teaching and learning of the subjects is that the learners comprehend their responsibility of nature, constructed environments, themselves and other people. Students gather and construct information during the courses and develop skills for planning and implementing of teaching situations and environments so that the scientific thinking of a pupil and its development is possible from individual, interactive and collaborative perspectives.

During the course in geography, students get acquainted with integral issues and phenomenon relating to natural

and cultural geography.

The course aims that students

- Familiarize themselves with the curriculum of geography, and environmental and natural science studies
- Broaden and deepen their knowledge and understanding regarding the environment of nature and built environment, comprehension of issues and phenomenon, and different cultures.
- Get acquainted with planning, implementing and evaluation of teaching of geography, and environmental and natural science studies.
- Reflect their growth and development from the viewpoint of sustainable development and functioning as a teacher of geography, and environmental and natural science studies.

Contents:

1. Introduction
 - Overview of the aims, contents and methods of completion of the course
 - The curriculum of geography
2. Maps and teaching of maps
 - Different maps
 - Different approaches to teaching of maps
3. Space, climate and weather
 - Earth in the universe and solar system
 - Climatic zones
 - Weather and observing of it
4. Natural resources and livelihoods
 - Organic and inorganic material
 - Soil types, rocks, minerals and ores
 - Structure of livelihoods
5. Landscapes and use of land
 - Topography • Types of landscapes • Built environment
6. Interaction between human beings and the environment
 - Environmental relation • Sustainable development
7. Multiculturalism as a thematic entity

Learning activities and teaching methods:

Method of teaching: 16 hours of contact teaching per subject. Different methods of sensitivity, science and value education are used during the courses.

Method of completing: Active participation in the contact teaching and a final exam. The exam can be replaced with some alternative method of completion agreed separately with the teacher responsible for the course.

Target group:

Recommended optional programme components:

Recommended or required reading:

The availability of the literature can be checked in [this link](#).

Peruskoulun opetussuunnitelman perusteet (maantiedon osalta) www.oph.fi

Rikkinen, H. (1997 tai uudempi painos) *Maantiede peruskoulun ala-asteella*. Helsingin yliopisto, opettajankoulutuslaitos.

OR:

Rikkinen, H. (1998) *Maantiede peruskoulun yläasteella*. Helsingin yliopisto, opettajankoulutuslaitos.

OR:

Wiegand, P. (1994 tai uusin painos). *Children and Primary Geography*. Trowbridge, Wiltshire: Redwood books

OR

Tilbury, D. & Williams, M. (eds.) (1997 tai uusin painos). *Teaching and learning geography*. London & New York: Routledge

Haubrich, H. (Hrsg.) (2006). *Geographie unterrichten lernen. Die neue Didaktik der Geographie konkret*.

Assessment methods and criteria:

Grading:

0-5

Person responsible:

Eila Jeronen

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Bransford, John D., Brown, Ann L. & Cocking, Rodney R. (eds.), , 2000

Bransford, John D., Brown, Ann L. & Cocking, Rodney R. (eds.), , 1998

Bransford, John D., Brown, Ann L. & Cocking, Rodney R. (eds.), , 2004

Järvelä, Sanna, Häkkinen, Päivi & Lehtinen, Erno (toim.), , 2006

McGilly, Kate (ed.), , 1994

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406030A: Health Education, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Kannas, Lasse & Tyrväinen, Heli (toim.), , 2005

Korhonen, Juho et al. (toim.), , 2002

Korhonen, Juho et al. (toim.), , 2000

Opetushallitus, , 2004

Peltonen, Heidi & Kannas, Lasse (toim.), , 2006

Peltonen, Heidi & Kannas, Lasse (toim.), , 2005

Vertio, Harri, , 2003

Opintokohteen kielet: Finnish

ECTS Credits:

1 credits

Language of instruction:

English

Timing:

3. academic year, fall term

Learning outcomes:

Health education is a part of natural science subjects. The goal of teaching and learning of the subjects is that the learners comprehend their responsibility of nature, constructed environments, themselves and other people. Students gather and construct information during the courses and develop skills for planning and implementing of teaching situations and environments so that the scientific thinking of a pupil and its development is possible from individual, interactive and collaborative perspectives.

During the course in health education, students familiarize themselves with, through operational methods, how pupils are supported in adapting a healthy lifestyle.

The course aims that students:

- Understand the multidimensional nature of health and sickness
- Get acquainted with concepts relating to health and the bases of promoting health
- Contemplate relations between ways of life and health and educational challenges regarding promoting health
- Form a general picture of the mental development of children and adolescents
- Perceive the operational principles of human structure and system
- Reflect on their assumptions and actions from the viewpoint of working as a health education teacher.

Contents:

Content

1. Introduction
 - Overview of the aims, contents and methods of completion of the course
 - The curriculum of health education
2. Basics of health education
 - Health as a concept
 - Sickness as a concept
3. Ways of life
 - Control in life and intoxicants
 - Nutritional habits
 - Physical activeness, rest and physical condition
4. Challenges for the mental development of children and adolescents
 - Mental development, development functions and challenges of children and adolescents
 - Dimensions of mental health
5. Structure and function of the body and their examination
 - Structure of the body
 - Operation and regulation of organs, systems and organ systems

Learning activities and teaching methods:

Method of teaching: 16 hours of contact teaching per subject. Different methods of sensitivity, science and value education are used during the courses.

Method of completing: Active participation in the contact teaching and a final exam. The exam can be replaced with some alternative method of completion agreed separately with the teacher responsible for the course.

Target group:

Recommended optional programme components:

Recommended or required reading:

The availability of the literature can be checked in [this link](#).

Peruskoulun opetussuunnitelman perusteet (terveystiedon osalta) www.oph.fi

Vertio, H. (2003) *Terveyden edistäminen*. Helsinki: Tammi.

OR:

Kannas, L. & Tyrväinen, H. (toim.) (2005). *Virikkeitä terveystiedon opetukseen*. Terveyden edistämisen tutkimuskeskus.

OR:

Egger, G., Spark, R. & Donovan, R. (2005). *Health promotion strategies and methods*. Second edition.

OR:

Peltonen, H. & Kannas, L. (2004) *Terveystieto tutuksi. Tervettä tietoa opetuksen tueksi*. Helsinki: Opetushallitus.

Assessment methods and criteria:

Grading:

0-5

Person responsible:

Eila Jeronen

406022A: History, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Asunmaa, Martti , , 1994

Karlen, Arno , , 2000

Löfström, Jan (toim.) , , 2002

Vahtola, Jouko , , 2003

Lisätiedot:

Zetterberg, Seppo et. al. (toim.) , , 2006

Zetterberg, Seppo et. al. (toim.) , , 1988

Opintokohteen kielet: Finnish

ECTS Credits:

3 credits

Language of instruction:

English

Timing:

.

Learning outcomes:

The course equips students with skills to create frameworks for understanding the nature of the past and of different historical periods and helps them to construct their own history knowledge. Students will be able to analyze contemporary problems and change processes, acquire a holistic perception of the world and use it effectively in teaching. An overarching aim is to make students aware of their own cultural background and identity and to gain appreciation for cultural diversity. Students are encouraged to adopt an active, tolerant and democratic approach to teaching citizenship.

Contents:

.

Learning activities and teaching methods:

.

Target group:

.

Recommended optional programme components:

.

Assessment methods and criteria:

.

Grading:

0-5

Person responsible:

Gordon Roberts

407029A: Infant and Primary Education, 3 op**Voimassaolo:** 01.08.2005 -**Opiskelumuoto:** Intermediate Studies**Laji:** Course**Vastuuyksikkö:** Faculty of Education**Arvostelu:** 1 - 5, pass, fail**Opintokohteen oppimateriaali:****Högström, Barbro & Saloranta, Outi (toim.),** , 2001**Järvinen, Heljä** , , 1993**Opetushallitus** , , 2000**Opetushallitus** , , 2004**Saloranta, Outi (toim.),** , 2002**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

410014Y: Information and communication as a pedagogical tool, 3 op**Voimassaolo:** 01.08.2005 -**Opiskelumuoto:** General Studies**Laji:** Course**Vastuuyksikkö:** Faculty of Education**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**Leikkaavuudet:**

ay410014Y Information and communication as a pedagogical tool (OPEN UNI) 3.0 op

Ei opintojaksokuvauksia.

405024Y: Introduction to Theoretical Foundations and Practics in Technology Education, 4 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: General Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406020A-02: Language and Writing, 4 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

410069P-01: Lecture in educational psychology, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406031A-03: Listening Education, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406020A-01: Literature and Reading, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

410069P-02: Literature in educational psychology, 2 op

Voimassaolo: 01.08.1950 -

Opiskelumuoto: Basic Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

408013S: Master's Thesis, 35 - 40 op

Voimassaolo: 01.08.2005 - 31.07.2016

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: A,B,N,C,M,EX,L

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406033A-01: Materials, Sewing and Clothing Technology, 3 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406025A: Mathematics Education: Part I, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

3 credits

Language of instruction:

English

Timing:

Learning outcomes:

Contents:

- Basic knowledge needed for teaching mathematics at the elementary level
- How do children learn mathematics?
- The elementary school mathematics curriculum
- The concept of number, what is it and how it can be developed?
- The path from oral and activity based arithmetic to written arithmetic
- The ten base system, arithmetic algorithms, learning and teaching
- Teaching and learning geometry, development of geometric thinking
- The conceptual knowledge of geometry
- Learning and teaching fractions and decimal fractions

Learning activities and teaching methods:

Small groups 32 h

Target group:

Recommended optional programme components:

Recommended or required reading:

Literature introduced by the lecturers at the beginning of the course.

Assessment methods and criteria:

Grading:

0-5

Person responsible:

Tapio Keranto

406026A: Mathematics Education: part II, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

English

Timing:

Learning outcomes:

Objective

- Ensuring and deepening those skills in mathematics needed for teaching at grades 1 – 6
- Becoming familiar with the latest development in research of mathematics education
- Developing mathematics educational thinking
- Increasing the knowledge of the curriculum
- Increasing interest and self-confidence in mathematics, problem solving and the teaching of mathematics

Contents:

Contents

- The knowledge and information, attitudes and appreciations needed for competent mathematics teaching
- Logico-mathematical problem solving and its applications
- Problem based teaching of mathematics
- Measuring and calculating with units
- Proportions, ratios, fractions and percentage calculations
- The emergence of algebraic thinking and developing it through teaching

Learning activities and teaching methods:

Small groups 16 h

Target group:

Recommended optional programme components:

Recommended or required reading:

Literature introduced by the lecturers at the beginning of the course.

Assessment methods and criteria:

Grading:

0-5

Person responsible:

Tapio Keranto

408013S-01: Maturity Test, 30 op

Voimassaolo: 01.08.2005 - 31.07.2016

Opiskelumuoto: Advanced Studies

Laji: Diploma thesis

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

407030A-01: Maturity Test, 0 op

Voimassaolo: 01.08.2005 - 31.07.2015

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406020A: Mother Tongue and Literature, 7 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opettajat: Sääsilahti, Minna Susanna

Opintokohteen oppimateriaali:

Suojala, Marja & Karjalainen, Maija (toim.), , 2001

Gru#nthal, Satu & Pentikäinen, Johanna (toim.), , 2006

Harmanen, Minna & Siirainen, Mari (toim.), , 2006

Huhtala, Liisi (toim.), , 2003

Opintokohteen kielet: Finnish

ECTS Credits:

7 credits

Language of instruction:

English

Learning outcomes:

The aim of studies is to arouse student interest in language and to make them multiskilled intermediaries of linguistic culture, who possess the competence to develop the linguistic abilities of children. To this end, students familiarize themselves with Finnish and literature as school subjects, together with the contents, methods and background theories of communication teaching, primary level reading and literature.

Contents:

Finnish Language and Literature comprises two parts:

1. **Literature and Reading (3 pts. / 2 cr.)** This course focuses on the primary level curriculum and helps students gain an understanding of the role of literature in childhood development and education. Using literary and interpretation pedagogy, a variety of texts are used to develop extensive and manysided reading, literacy and interaction skills.
2. **Language and Writing (4 pts. / 2 cr.)** Students familiarize themselves with the linguistic knowledge and background theories required in the description and teaching of Finnish. They also learn skills relating to child instruction, language observation and study of language structures. Also strengthened is their ability to enhance pupils' textual skills.

The course also includes teaching practice.

Learning activities and teaching methods:

Working methods

1. Contact teaching 36 h: lectures 6 h, small groups 30 h; independent work 44 h
2. Contact teaching 44 h, which also includes 4 - 6 h of seminar work conducted in small groups during bachelor's degree studies.

Target group:**Recommended optional programme components:****Recommended or required reading:**

The availability of the literature can be checked in this [link](#)
from this link

Gru#nthal, Satu & Pentikäinen, Johanna (toim.) (2006) *Kulmakivi : luokanopettajan äidinkieli ja kirjallisuus*

Huhtala, L. et al. (toim.) (2003) *Pieni suuri maailma: suomalaisen lasten- ja nuortenkirjallisuuden historia.*

Harmanen, M. & Siironen, M. (toim.) (2006) *Kielioppi koulussa. Äidinkielen opettajien liiton vuosikirja XLX.*

Suojala, M. & Karjalainen, M. (toim.) (2001) *Avaa lastenkirja: johdatus lastenkirjallisuuden lajeihin ja käyttöön.*

Other optional literature with article reading

Grading:

0-5

Person responsible:

Leena Räisänen

Other information:

Students whose language of instruction has not been Finnish and whose Finnish language skills are not sufficiently good, are exempted from Finnish studies. Instead, they study the same amount of English and didactics of English language teaching.

A256402: Multidisciplinary Studies in the Subjects and Cross-Curricular Themes Taught in Basic Education, 65 op

Opiskelumuuoto: Intermediate Studies

Laji: Study module

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

65 credits

Language of instruction:

English

Contents:

Humanities module

ECTS: 15 pts.

assessment: 0-5

This module crystallizes the three central perspectives in class-teacher education: values, social awareness and

communication. Students familiarize themselves with the contents and pedagogy of the different subjects to gain the competence needed to enhance pupils' language-based learning and interaction skills. Further, students acquire a knowledge base and assessment skills that support their ethical development, empower them to become active participants in democratic society and promote human rights. *Courses:*

- 406020 A Finnish Language and Literature (7 pts.)
- 406021A Drama Pedagogy (2 pts.)
- 406022A History (3 pts.)
- 406023A Religion OR
- 406024A Philosophy/Ethics (2 pts.)
- 407517A Thematic Practice (1 pts.)

Course convener: Leena Räisänen

Science module

ECTS: 15 pts.

assessment: 0-5

Studies in the Science Module aim at familiarizing students with science and mathematics teaching as well as applying and developing methods of teaching. Students will learn to perceive, study, model and explain scientific phenomena and events. In addition, they will understand the significance of mathematics and natural sciences in the context of pupil development and education. Teaching within the module focuses on key issues that enhance student abilities and curriculum development, didactics of the various subjects and implications of didactic research for teaching. Teaching may also involve integration of shared projects involving a number of different courses. Results and experiences of these projects can then be utilized in teaching practice.

Courses:

- 406025A Mathematic Education: Part I (3 pts.)
- 406026A Mathematic Education: Part II (2 pts.)
- 406027A Physics and chemistry (4 pts.)
- 406028A Biology (2 pts.)
- 406029A Geography (2 pts.)
- 406030A Health Education (1 pts.)
- 407517A Thematic Practice (1 pts.)

Course convener: Tapio Keranto, Lasse Jalonen and Eila Jeronen

Arts module

ECTS: 30 pts.

assessment: 0-5

Studies in the Arts Module provide students with such fundamental knowledge and skills in arts and crafts as will allow them to carry out and develop the basic educational curriculum in line with pupil achievement. Another goal is to foster an understanding for the educational significance of the different arts and the skill building process from the perspective of child development.

Courses:

- 406031A Music (8 pts.)
- 406032A Art (6 pts.)
- 406033A Crafts/Textile Work/Technology (6 pts.) OR
- 406034A Crafts/Technical Work and Technology (6 pts.)
- 406035A Physical Education (6 pts.)
- 406036A Basics of Art and Practical Education (1 pts.)
- 406037A Optional Studies in Art and Practical Education (2 – 6 pts.)
- 407517A Thematic Practice (1 pts.)

Students may take one arts and crafts course as a reduced 4 credit study unit. *Course convener:* Teachers in the Arts Module

Learning activities and teaching methods:

Target group:

Recommended optional programme components:

Recommended or required reading:

Assessment methods and criteria:

Grading:

0-5

Person responsible:

Matti Lindh

410017Y: Multimedia as a learning project, 2 op**Voimassaolo:** 01.08.2005 -**Opiskelumuoto:** General Studies**Laji:** Course**Vastuuyksikkö:** Faculty of Education**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**Leikkaavuudet:**

ay410017Y Digital Media in Teaching and Learning (OPEN UNI) 2.0 op

Ei opintojaksokuvauksia.

406031A: Music, 8 op**Voimassaolo:** 01.08.2005 -**Opiskelumuoto:** Intermediate Studies**Laji:** Course**Vastuuyksikkö:** Faculty of Education**Arvostelu:** 1 - 5, pass, fail**Opettajat:** Marja Ervasti**Opintokohteen oppimateriaali:****Alho, Eve, Hautsalo, Hilikka & Perkiö, Soili (toim.),** , 1995**Alho, Eve, Hautsalo, Hilikka & Perkiö, Soili (toim.),** , 1992**Ervasti, Marja,** , 2003**Hyvönen, Leena (1)** , , 1995**Opetushallitus,** , 2004**Styng, Jorma** , , 1998**Styng, Jorma** , , 1997**Tenni, Jyrki** , , 2004**Opintokohteen kielet:** Finnish**ECTS Credits:**

7 - 8 credits

Language of instruction:

English

Timing:

.

Learning outcomes:

In Music Studies, music education is viewed in the larger framework of cultural and art education. Students make music in groups and acquire the subject knowledge and pedagogical skills necessary for music education in school.

Music education comprises the following courses:

- 1. Pedagogical Applications of Music Education (3 pts./ 2 cr.)** Students acquaint themselves with such pedagogical applications of music education as working with a large musical group and paying attention to different level students. They are also introduced to the contents and methods of the subject through a wide range of activities.
- 2. Voice and Singing (1 pts./ 0,5, cr.)** Students learn effective use of voice together with various ways of teaching vocal expression and singing. They are also encouraged to use their voice for creative personal expression.

3. **Listening - Practical Adaptations in Music Education (1 pts./ 0,5 cr.)** Students will be introduced to listening education as a natural ingredient of different ways of working with music. They also familiarize themselves with a range of music cultures, styles and stylistic periods and learn to adopt diverse approaches to music.
4. **Music Theory in Practice (1 pts./ 0,5 cr.)** Students learn to understand and use musical concepts and notation when listening to or making music.
5. **Accompaniment Instrument / Piano or Guitar (2 pts./ 1 cr.)** Students learn to play accompaniment in diverse musical settings. Focusing mainly on free accompaniment, the course helps to advance creative self-expression and the ability to follow music by ear.

Contents:

Contents

1. **Pedagogical Applications of Music Education, 3 pts. (2 cr.)**
 - Familiarize students with the pedagogical contents and uses of music in primary school through extensive music-making (singing, playing, music and rhythmic exercises as well as musical innovation)
 - Present basic techniques and pedagogical uses of school instruments (percussive instruments, percussion instruments, band instruments, self-made instruments, recorders and kantele (traditional Finnish harp))
 - Music education is a holistic arts and culture-based education which incorporates physical activities, drama, other arts and skills as well as extramusical themes.
2. **Voice and Singing, 1 pts. (0,5 cr.)** Provide practice in the proper use and maintenance of voice, vocal expression and their pedagogical application through singing, speech and play-like exercises.
3. **Listening Education, 1 pts. (0,5 cr.)**
 - Listening education is an integral part of all musical activities and helps to put music in a time and place and to gain an appreciation for culturally different types of music
 - Music is approached by adding such elements to listening as enhance focusing on it (physical, verbal, visual or musical stimuli)
 - Music listening proceeds from experiences and emotions to concepts
4. **Music Theory in Practice, 1 pts. (0,5 cr.)**
 - To offer an introduction to musical notation, chord markings, keys and intervals
 - Practical competence is acquired through instrument playing (piano/guitar)
5. **Accompaniment Instrument/Piano or Guitar, 2 pts. (1 cr.)**
 - To familiarize students with different musical notation systems, real chord symbols, different styles of music and accompaniment as well as playing techniques
 - Group lessons involve directing and accompanying communal singing and music playing

Learning activities and teaching methods:

Working methods

1. Small groups 40 h
2. Small groups 14 h and independent work 13 h
3. Small groups 14 h and independent work 13 h
4. teaching takes place in one term and includes 14 h of contact teaching and 13 h of independent work
5. teaching 20 h and independent work 33 h

Target group:

Recommended optional programme components:

Recommended or required reading:

Alho, E., Hautsalo, H. & Perkiö, S. (1992). *Kuuntelun aika*. Wsoy.

Ervasti, M. (2003). *Lorutan laulun, sävellän sillan, piirrän partituurin, äänikuvitan kertomuksen – musiikillinen keksintä osana sovellettua orff-pedagogiikkaa*. Lisensiaatintutkimus. Kasvatustieteiden tiedekunta. Oulun yliopisto.

Hyvönen, L. (1995). *Ala-asteen oppilas musiikin kuuntelijana*. Väitöskirja. Studia Musica 5, Sibelius-Akatemia.

Hyvönen, L. (1996). Yksilönkehityksen varhaisvaiheet musiikin kokemisen perustana. *Musiikkikasvatus* 1(1): 66 – 69.

Hyvönen, L. (1997). Onko musiikin kuuntelukasvatus musiikin historian opetusta? *Musiikkikasvatus* 2(2): 19 – 33.

Styng, J. (1997). *Vapaa säestys ja melodiasoitto kitaralla*. Opi musiikkia 1. Oulun yliopisto.

Styng, J. (1998). *Pop/Jazz -improvisaatio kitaralla*. Opi musiikkia 2. Oulun yliopisto.

Tenni, J. & Varpama, J. (2004). *Vapaa säestys ja improvisointi*. Otava.

Ajankohtaiset musiikkikasvatuksen artikkelit ja www-materiaali (esim. MOVE, Normaalikoulun ops, OPH:n opetussuunnitelmien perusteet).

Eri kustantajien (mm. WSOY, Otava, Warner- Chappell) perusopetuksen musiikin oppikirjat ja niiden oheismateriaali.

Eri musiikkityylien ja -lajien soittomateriaalia, kuten oppi- ja nuottikirjoja sekä soittooppaita eri kustantajilta.

The availability of the literature can be checked from [this link](#).

Assessment methods and criteria:

Grading:

1. Pass/fail
2. Pass/fail
3. Pass/fail
4. 0-5
5. 0-5

Person responsible:

Module convener: Teachers in the Arts Module.

Course convener:

1. N.N.
2. Maria Mustonen
3. Marja Ervasti
4. Markku Pehkonen ja Liisa Rännäli
5. Markku Pehkonen ja Liisa Rännäli

406031A-04: Music Theory in Practice, 1 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

408014S: Optional Course, 5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406037A: Optional Studies in Art and Practical Education, 2 - 6 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

1 - 6 credits

Language of instruction:

English

Timing:

Learning outcomes:

Contents:

Optional studies consist of art and practical studies or integrating thematic units. Optional studies and their completion are announced separately at the beginning of each term. The extent of optional studies is 2.0 points (1.5 cr.), and the amount of contact teaching is 14 h/ point.

Learning activities and teaching methods:

Target group:

Recommended optional programme components:

Recommended or required reading:

Literature (in English) introduced by the lecturers at the beginning of the course.

Assessment methods and criteria:

Grading:

Pass/fail

Person responsible:

Marja Ervasti

Other information:

Optional courses are not compulsory, if the amount of achieved points within Art and Practical Education otherwise exceeds 30.

408025S: Optional Studies: Basics of Educational Administration, 1 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

410075P: Orientation to Work at School, 2 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: Basic Studies

Laji: Practical training

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

Finnish

Person responsible:

- Rauni Räsänen and Maria Järvelä (LUKO)
- Rauni Räsänen and Matti Lindh (TEKNO)

405023Y: Orientation to studies, 1 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: General Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay405023Y Orientation to studies (OPEN UNI) 1.0 op

Ei opintojaksokuvauksia.

406031A-01: Pedagogical Applications of Music Education, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

410076P: Pedagogical Seminar in Technology Education I, 3 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Lindh, Matti , , 1996

Lindh, Matti , , 1997

Lindh, Matti , , 1984

Sutton, Clive , , 1992

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

407034A: Pedagogical Seminar in Technology Education II, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

International Technology Education Association, , 2000

Kumpulainen, Kristiina (ed.), , 2000

Kantola, Jouko & Kananoja, Tapani (eds), , 2002

Kananoja, Tapani, Kari, Jouko & Parikka, Matti (toim.), , 1998

Lindh, Matti , , 1997

Norman, Eddie et al. (eds.), , 1995

Norman, Eddie et al. (eds.), , 2000

Technology for All Americans Project , and International Technology Education Association, , 1996

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

408023S: Pedagogical Seminar in Technology Education III, 3 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406033A-03: Pedagogical and Didactic Questions, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

407029A-01: Pedagogy of Preschool and Primary Education, 1,5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406035A: Physical Education, 7 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opettajat: Niina Loukkola

Opintokohteen oppimateriaali:

Heikinaro-Johansson, Pilvikki, Huovinen, Terhi & Kytökorpi, Lea (toim.), , 2003

Opetushallitus, , 2004

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

5 - 6 credits

Language of instruction:

English

Timing:

I year autumn/ total 38 h:

- Lectures 8 h
- Adventure education 4 h
- Track and field 6 h
- Indoor ball games 12 h
- Basic gymnastics 8 h

I year spring/ total 24 h:

- Gymnastics with apparatus 8 h
- Cross-country skiing 6 h
- Outdoor ball games 10 h

II year autumn/ total 16 h:

- Rhythmic gymnastics 10 h
- Cross-country and nature sports 6 h

II year spring/ total 6 h:

- Skating 6 h
- Swimming ability must be demonstrated

1 year exercises 3 pts. (2 cr.)

Examination 1 pts. (0,5 cr.)

2 year exercises 2 pts. (1 cr.)

Learning outcomes:

Students acquaint themselves with the objectives, contents and teaching methods of physical education. The aim is to gain such knowledge and skills as gives them the competence to teach physical education classes in grades 0–6.

Physical Education comprises the following courses:

1. Orientation Toward Didactics and Pedagogy in Physical Education
2. School Gym as a Physical Education Environment
3. Snow, Ice and Water as Physical Education Environments
4. Immediate Environment of the School in Autumn and Spring
5. Independent Work in Physical Education (LOTTO)

Contents:

Contents

1. Orientation Toward Didactics and Pedagogy in Physical Education (12 h)
 - Societal justification for physical education
 - Physical education = education for physical exercise and education through physical exercise
 - Based on latest research on physical exercise and sport and on physical education
 - Physical education curriculum and teaching process
 - Approaches to teaching physical education
 - Adventure education
2. School Gym as a Physical Education Environment (38 h)
 - Ball games, including ball handling, basketball, volleyball and floorball
 - Gymnastics, including basic gymnastics, rhythmic gymnastics and gymnastics with apparatus
3. Snow, Ice and Water as Physical Education Environments (12 h)
 - Cross-country skiing
 - Skating
 - Swimming ability must be demonstrated
4. Immediate Environment of the School in Autumn and Spring (22 h)
 - Track and field
 - Outdoor ball games, including soccer and Finnish baseball
 - Cross-country and nature sports
5. Independent Work in Physical Education (LOTTO) (76 h)
 - Students keep an exercise log
 - Preliminary activities for physical exercises (2 – 5 h)
 - Summaries of conducted lessons (5 – 10 h)
 - Planning lessons for students' own classes (2 h)

- Preparing for the examination (10 h)
- Acquiring and training swimming skills (0 – 20 h)
- Practicing students' own physical exercise skills (20 – 40 h)
- Participating in health-enhancing physical activities (4 – 10 h)
- Introduction to sports culture and school sports events, including ball games, gymnastics and dancing exhibitions, interschool competitions such as the Hese race and Valio relay race, school sports events such as Jumppasirkus (gymnastics circus) and Jumppajuna (gym train) (8 – 20 h)
- Compiling a list of references from PE teaching materials

Learning activities and teaching methods:

Lectures 8 h, small groups 76 h and independent work 76 h

Target group:

Recommended optional programme components:

Recommended or required reading:

Heikinaro-Johansson P. (toim.) (2003). *Näkökulmia liikuntapedagogiikkaan*, soveltuvin osin. *Perusopetuksen opetussuunnitelman perusteet* (liikunnan osuus). Opetushallitus 2004.

Literature (in English): Introduced by the lecturers at the beginning of the course.

The availability of the literature can be checked in [this link](#).

Assessment methods and criteria:

Grading:

0-5

Person responsible:

Physical Education lecturer

406027A: Physics and Chemistry, 4 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

4 credits

Language of instruction:

English

Timing:

Learning outcomes:

Contents:

This course seeks to give students an overall picture of basic education in physics and chemistry. This involves, first of all, gaining subject knowledge and adequate mastery of the knowledge and skills required in experimental teaching. It also encompasses developing an understanding of the nature of scientific knowledge, scientific methods and concept formation. And, thirdly, it includes the development of subject didactic knowledge and thinking. To provide support for student development, the course also aims at cultivating a personal interest for the subject and strengthening students' self-image as producers and distributors of scientific knowledge.

Objectives and contents of learning:

- Significance of physics and chemistry for human kind and society, its position in the curriculum and central educational aims
- The ontological and epistemological underpinnings of scientific knowledge
- Phenomena, concepts and experimental research related to water, air, space, light, sound, electricity, magnetism and the structure of matter seen from the viewpoints of physics, chemistry and subject didactics.

Learning activities and teaching methods:

Small groups 38 h

- The adopted approach is both perceptive and reflective and emphasizes concept formation and discussion
- Working methods vary, but centre stage is held by the experimental approach and its application to basic scientific education
- Students will be offered opportunities to design, implement and evaluate teaching

Target group:

Recommended optional programme components:

Recommended or required reading:

Introduced by the lecturers at the beginning of the course.

Assessment methods and criteria:

Grading:

0-5

Person responsible:

Lasse Jalonen

405024Y-02: Practical Exercises, 3 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: General Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

406023A: Religion, 2 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Kallioniemi, Arto & Luodeslampi, Juha (toim.), , 2005

Pyysiäinen, Markku & Seppälä, Jarkko (toim.), , 1998

Watson, Brenda , , 1993

Opintokohteen kielet: Finnish

ECTS Credits:

2 credits

Language of instruction:

English

Timing:

Learning outcomes:

Students commit to a learning and studying process that helps them to put their deepening viewpoint in the context of a larger religion pedagogical framework. The process also promotes their ability to assess its significance for developing their religion teaching skills as part of their future professional competence and social activities.

Contents:

- Nature and importance of religion teaching as part of Finnish school education
- Significance of religion in the cultural context of Finnish society
- Significance of the religious viewpoint as part of childhood religious development and human growth

- Didactic questions and premises in religion teaching
- Relationship between religious education on one hand and multiculturalism and education for internationalism on the other

Learning activities and teaching methods:

Target group:

Recommended optional programme components:

Recommended or required reading:

Jokin seuraavista teoksista:

Kallioniemi, A. & Luodeslampi, J. (2005). *Uskonnonopetus uudella vuosituohannella.*

Seppälä, J. & Pyysiäinen, M. (toim.) (1998). *Uskonnonopetuksen käsikirja.*

Watson, B. (1993). *The Effective Teaching of RE.*

Kurssikirjojen saatavuuden voi tarkastaa [tästä linkistä](#).

Literature (in English): Introduced by the M.Ed. lecturers at the beginning of the course.

Assessment methods and criteria:

Grading:

0-5

Person responsible:

Markku Salakka

411006A: Research course I, 10 op

Voimassaolo: 01.08.2005 - 31.07.2016

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opettajat: Peltonen, Jouni Aslak

Opintokohteen oppimateriaali:

Metsämuuronen, Jari , , 2005, pakollinen

Lisätiedot:

Metsämuuronen, Jari , , 2003, pakollinen

Lisätiedot:

Metsämuuronen, Jari , , 2006, pakollinen

Lisätiedot:

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

Alternative

411006A-01: a) 1. Basic course in quantitative research, lecture, 2 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

411006A-02: a) 2. Statistical analysis, lecture, 2 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

411006A-03: a) 3. Exercises, 1 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

411006A-04: b) 1. Basic course in qualitative research, lecture, 3 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

411006A-05: b) 2. Basic course in qualitative research, exercises, 2 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

413005S: Research course II, 10 op

Voimassaolo: 01.08.2005 - 31.12.2012

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Metsämuuronen, Jari , , 2003

Metsämuuronen, Jari , , 2005

Metsämuuronen, Jari , , 2006
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

407032A: School Experience II: Bachelor's Level, 6 op

Voimassaolo: 01.08.2006 -
Opiskelumuoto: Intermediate Studies
Laji: Practical training
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

408020S: School Work in the Master Phase, 11 op

Voimassaolo: 01.08.2006 -
Opiskelumuoto: Advanced Studies
Laji: Practical training
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

407033A: Science Culture and Technology, 2 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Intermediate Studies
Laji: Course
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

410013Y: Scientific communication, 2 op

Voimassaolo: 01.08.2005 - 31.07.2012
Opiskelumuoto: Language and Communication Studies
Laji: Course
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen oppimateriaali:
Kemppainen, Tapani , , 2002
 Lisätiedot:
Heikkinen, Vesa , , 2000
Hirsjärvi, Sirkka , , 1997
Kakkuri-Knuuttila, M-L (toim.) , , 1998
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

410070P: Sociology of education, 4 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay410070P Sociology of education:Society, educational institutions and social interaction (OPEN UNI) 4.0
op

Ei opintojaksokuvauksia.

407026A: Special Education, 3 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Ahvenainen, Ossi , , 2005

Ahvenainen, Ossi , , 1999

Ikonen, Oiva , , 2000

Jahnukainen, Markku (toim.) , , 2001

Murto, Pentti, Naukkarinen, Aimo & Saloviita, Timo (toim.) , , 2001

Hautamäki, Jarkko (toim.) , , 2001

Ikonen, Oiva & Virtanen, Pirkko (toim.) , , 2001

Pulkkinen, Lea , , 2002

Räsänen, Pekka et al. (toim.) , , 2004

Sinkkonen, Jari & Pihlaja, Päivi (toim.) , , 1999

Opintokohteen kielet: Finnish

410016Y: Speech communication and drama, 2 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Language and Communication Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Isotalus, Pekka (toim.) , , 1994

Takala, E. & Gerlander, M. (toim.) , , 1995

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

411006A-09: Statistical analyses, lecture + exercises (compensatory literature), 3 op

Voimassaolo: 01.08.2005 - 31.07.2016

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

407024A: Teacher as a Pedagogical Thinker and Agent, 3 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen oppimateriaali:

Clark, Christopher M. , , 1995

Houston, W. Robert, Haberman, Martin & Sikula, John (eds.) , , 1990

Sikula, John, Buttery, Thomas J. & Guyton, Edith (eds.) , , 1996

Van Manen, Max , , 1991

Van Manen, Max , , 1991

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

407029A-02: Teaching to read and write, 1,5 op

Voimassaolo: 01.08.2005 -

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

408021S: Theme-based Practice, 6 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: Advanced Studies

Laji: Practical training

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

405024Y-01: Theoretical Part, 1 op

Voimassaolo: 01.08.2006 -

Opiskelumuoto: General Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish
Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

408013S-02: Thesis, 5 op

Voimassaolo: 01.08.2005 - 31.07.2016
Opiskelumuoto: Advanced Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: A,B,N,C,M,EX,L
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406034A-01: Traditional Handicrafts in the Context of Technical Work, 3 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406033A-02: User-Centred Design and Manufacture as an Approach to Crafts and Technology Problems, 2 op

Voimassaolo: 01.08.2011 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

406031A-02: Voice and Singing, 1 op

Voimassaolo: 01.08.2005 -
Opiskelumuoto: Intermediate Studies
Laji: Partial credit
Vastuuyksikkö: Faculty of Education
Arvostelu: 1 - 5, pass, fail
Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

413005S-01: a) 1. Advanced course in quantitative research, lecture, 3 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Advanced Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

413005S-02: a) 2. Advanced course in quantitative research, exercises, 2 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Advanced Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

413005S-05: a) Advanced Course in Quantitative Research Methods, 5 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Advanced Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

411006A-06: a)2. Statistical analysis, lecture + exercises, 3 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Intermediate Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

413005S-03: b) 1. Advanced course in qualitative research, lecture, 2 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Advanced Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

413005S-04: b) 2. Advanced course in qualitative research, exercises, 3 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Advanced Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

413005S-06: b) Advanced Course in Qualitative Research Methods, 5 op

Voimassaolo: 01.08.2005 - 31.07.2012

Opiskelumuoto: Advanced Studies

Laji: Partial credit

Vastuuyksikkö: Faculty of Education

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.