Opasraportti

(2016 - 2017)

Tutkintorakenteisiin kuulumattomat opintokokonaisuudet ja -jaksot

ay756347A: Conservation of biodiversity (OPEN UNI), 5 op
ay752175P: Environmental ecology (OPEN UNI), 5 op
ay780117P: General and Inorganic Chemistry A (OPEN UNI), 5 op
ay780118P: General and Inorganic Chemistry B (OPEN UNI), 5 op
ay780116P: Introduction to Organic Chemistry (OPEN UNI), 5 op
ay765103P: Introduction to astronomy (OPEN UNI), 3 op
ay750116P: Legislation in environmental protection (OPEN UNI), 5 op
ay802158P: Mathematics for Economic Sciences (OPEN UNI), 7 op
ay806116P: Statistics for Economic Sciences (OPEN UNI), 5 op

Opintojaksojen kuvaukset

Tutkintorakenteisiin kuulumattomien opintokokonaisuuksien ja -jaksojen kuvaukset

ay756347A: Conservation of biodiversity (OPEN UNI), 5 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Intermediate Studies
Laji: Course
Vastuuysikkö: Open University, Oulu
Arvostelu: 1 - 5, pass, fail
Opetus suunnattu: Open University, Oulu
Opintokohteen kielet: Finnish
Leikkaavuudet:
   756347A  Conservation of biodiversity  5.0 op

Assessment methods and criteria:
Read more about assessment criteria at the University of Oulu webpage.

ay752175P: Environmental ecology (OPEN UNI), 5 op
ay780117P: General and Inorganic Chemistry A (OPEN UNI), 5 op

Voimassaolo: 01.01.2016 -
Opiskelumuoto: Basic Studies
Laji: Course
Vastuuyksikkö: Open University, Oulu
Arvostelu: 1 - 5, pass, fail
Opetus suunnattu: Open University, Oulu
Opintokohteen kielet: Finnish
Leikkaavuudet:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>780117P</td>
<td>General and Inorganic Chemistry A</td>
<td>5.0 op</td>
</tr>
<tr>
<td>780114P</td>
<td>General and Inorganic Chemistry I</td>
<td>6.0 op</td>
</tr>
<tr>
<td>780115P</td>
<td>General and Inorganic Chemistry II</td>
<td>6.0 op</td>
</tr>
<tr>
<td>780113P</td>
<td>Introduction to Chemistry</td>
<td>12.0 op</td>
</tr>
<tr>
<td>780101P</td>
<td>Introduction to Physical Chemistry</td>
<td>7.0 op</td>
</tr>
<tr>
<td>780102P</td>
<td>Introduction to Inorganic Chemistry</td>
<td>5.0 op</td>
</tr>
<tr>
<td>780109P</td>
<td>Basic Principles in Chemistry</td>
<td>4.0 op</td>
</tr>
</tbody>
</table>

ECTS Credits:
5 credits /134 hours of work

Language of instruction:
Finnish

Timing:
1st autumn

Learning outcomes:
After this course the student should understand basic concepts of chemistry as described in international general chemistry curriculum.

Contents:
Basic concepts of chemistry, chemical formula, chemical reaction, chemical equation, oxidation-reduction reactions, stoichiometry, gases, chemical equilibrium, acids and bases, additional aspects of acid-base equilibria, solubility and complex-ion equilibria.

Mode of delivery:
Face-to-face teaching

Learning activities and teaching methods:
32 hours of lectures and applications, 20 hours of exercises and 82 hours of self-study

Target group:
Biochemistry, Chemistry compulsory. In the entity of 25 credits (minor studies), compulsory. Physical sciences, Mathematical sciences, optional.

Prerequisites and co-requisites:
Upper secondary school chemistry

Recommended optional programme components:
The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:
Assessment methods and criteria:
Two intermediate examinations or one final examination. Read more about assessment criteria at the University of Oulu webpage.

Grading:
The course utilizes a numerical grading scale 0-5. In the numerical scale zero stands for a fail.

Person responsible:
N.N.

Working life cooperation:
No

Other information:
No

ay780118P: General and Inorganic Chemistry B (OPEN UNI), 5 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Basic Studies
Laji: Course
Vastuuysikkö: Open University, Oulu
Arvostelu: 1 - 5, pass, fail
Opetus suunnattu: Open University, Oulu
Opintokohteen kielet: Finnish

Leikkaavuudet:
780118P General and Inorganic Chemistry B 5.0 op
780114P General and Inorganic Chemistry I 6.0 op
780115P General and Inorganic Chemistry II 6.0 op
780113P Introduction to Chemistry 12.0 op
780101P Introduction to Physical Chemistry 7.0 op
780102P Introduction to Inorganic Chemistry 5.0 op

ECTS Credits:
5 credits /134 hours of work

Language of instruction:
Finnish

Timing:
1st autumn

Learning outcomes:
After this course the student should understand basic concepts of chemistry as described in international general chemistry curriculum.

Contents:
Thermodynamics, reaction kinetics, electrochemistry, electrons in atoms, periodic table, chemical bond, intermolecular forces.

Mode of delivery:
Face-to-face teaching

Learning activities and teaching methods:
36 hours of lectures and applications, 22 hours of exercises, 82 hours of self-study

Target group:
Biochemistry, Chemistry, compulsory. In the entity of 25 credits (minor studies), compulsory. Physical sciences, Mathematical sciences, optional.

Prerequisites and co-requisites:
Upper secondary school chemistry

Recommended optional programme components:
-

Recommended or required reading:
Assessment methods and criteria:
Two intermediate examinations or one final examination. Read more about assessment criteria at the University of Oulu webpage.

Grading:
The course utilizes a numerical grading scale 0-5. In the numerical scale zero stands for a fail.

Person responsible:
N.N.

Working life cooperation:
No

Other information:
No

ay780116P: Introduction to Organic Chemistry (OPEN UNI), 5 op

Voimassaolo: 01.08.2015 -
Opiskelumuoto: Basic Studies
Laji: Course
Vastuuysikkö: Open University, Oulu
Arvostelu: 1 - 5, pass, fail
Opetus suunnattu: Open University, Oulu
Opintokohteen kielet: Finnish
Leikkaavuudet:

ECTS Credits:
5 credits /134 hours of work

Language of instruction:
Finnish. Book-examination in English as well.

Timing:
1st autumn and 1st spring

Learning outcomes:
After this course, the student can explain organic chemistry fundamentals, basic concepts and terminology, can use them for the description of organic chemistry phenomena. He/she can name organic structures, explain their properties, deduce basic reaction types and solve their mechanisms.

Contents:
Basic reactions of organic compounds, basic principles of stereochemistry and reaction mechanisms: Addition, elimination, substitution, including electrophilic aromatic substitution, reactions of carbonyl group. Applications.

Mode of delivery:
Face-to-face teaching

Learning activities and teaching methods:
42 hours of lectures plus 12 hours of exercises, 80 hours of independent self-study

Target group:
Biochemistry, Chemistry, Biology, Process Engineering, Environmental Engineering and in the study entity of 25 credits, compulsory. Physical Sciences, Geology, Geography, Mathematical Sciences, optional.

Prerequisites and co-requisites:
Upper secondary school chemistry

Recommended optional programme components:
The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

Assessment methods and criteria:
Two intermediate examinations or one final examination Read more about assessment criteria at the University of Oulu webpage.

Grading:
The course utilizes a numerical grading scale 0-5. In the numerical scale zero stands for a fail.

Person responsible:
Dr. Johanna Kärkkäinen

Working life cooperation:
ay765103P: Introduction to astronomy (OPEN UNI), 3 op

Voimassaolo: 01.08.2012 -
Opiskelumoto: Basic Studies
Laji: Course
Vastuuysikkö: Open University, Oulu
Arvostelu: 1 - 5, pass, fail
Opetus suunnattu: Open University, Oulu
Opintokohteen kielet: Finnish
Leikkaavuudet:

ECTS Credits: 3 credits
Language of instruction: Finnish
Learning outcomes:
Student can describe by full sentences the role of astronomy in the formation of physical world view, can name the most central astronomical research subjects and can describe the proportions of the Universe.
Contents:
Basic level introduction to astronomical topics: history of astronomy, astronomica methods, the Solar System, the Sun, stars and their evolution, interstellar matter, star clusters, the Milky Way and galaxies.
Mode of delivery:
Face-to-face teaching
Learning activities and teaching methods:
Lectures 21 h, self-study 59 h
Prerequisites and co-requisites:
No specific prerequisites
Recommended or required reading:
Course lectured in Finnish, possible English study material will be decided later.
Assessment methods and criteria:
One written examination.
Read more about assessment criteria at the University of Oulu webpage.
Grading:
Numerical grading scale 0 – 5, where 0 = fail
Person responsible:
Petri Kostama
Other information:
https://wiki.oulu.fi/display/765103P/

ay750116P: Legislation in environmental protection (OPEN UNI), 5 op

Voimassaolo: 01.08.2014 -
Opiskelumoto: Basic Studies
Laji: Course
Vastuuysikkö: Open University, Oulu
Arvostelu: 1 - 5, pass, fail
Opetus suunnattu: Open University, Oulu
Opintokohteen kielet: Finnish
Leikkaavuudet:

ECTS Credits: 5 credits
Language of instruction: Finnish
Learning outcomes:
Recommended or required reading:
Assessment methods and criteria:
Grading:
Person responsible:
Other information:
https://wiki.oulu.fi/display/750116P/
ay802158P: Mathematics for Economic Sciences (OPEN UNI), 7 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Basic Studies
Laji: Course
Vastuuysikkö: Open University, Oulu
Arvostelu: 1 - 5, pass, fail
Opetus suunnattu: Open University, Oulu
Opintokohteen kielet: Finnish
Leikkaavuudet:

  802158P  Mathematics for Economic Sciences  7.0 op

ay806116P: Statistics for Economic Sciences (OPEN UNI), 5 op

Voimassaolo: 01.08.2014 -
Opiskelumuoto: Basic Studies
Laji: Course
Vastuuysikkö: Open University, Oulu
Arvostelu: 1 - 5, pass, fail
Opetus suunnattu: Open University, Oulu
Opintokohteen kielet: Finnish
Leikkaavuudet:

  806116P  Statistics for Economic Sciences  5.0 op