**Master Degree Program for NTNU Department of Chemistry**

101.03.23 Dept Meeting Permitted

102.04.26 Dept Meeting Permitted

102.06.26 Dept Meeting Permitted

103.01.14 Dept Meeting Permitted

103.05.02 Dept Meeting Permitted

* + 1. Dept Meeting Permitted

1. In Chemistry you should take at least 24 credits before graduate. Included 4 major field courses equal to 12 credit, If you take advanced courses in undergraduate (summer course) and score point over 85 can courses credit, maximum is 6 credit and should permitted by advisor and have register.

II. If you graduate from NTNU Chemistry and have took advanced courses not included in undergraduate credit can be courses credit for 2 minor field courses, 6 credit at maximum, not NTNU Chemistry will not take the rule.

III. Before graduate should take 4 semesters of Seminar(2 credit) and4 semesters of Seminars of contemporary chemistry(1 credit)

IV. Major field courses

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| Field | courses | note |
| Organic chemistry | Spectroscopy in organic chemistry、organic reaction mechanism、organic synthesis、Topic of Organic Chemistry、Biochemistry、Topics in Biochemistry、Advanced biochemistry(I) | 7 take 2 |
| Inorganic Chemistry | Advanced Inorganic Chemistry(I)、Advanced Inorganic Chemistry (II) |  |
| Physical Chemistry | Chemical Kinetics、Quantum Chemistry、Chemical Thermodynamics、Statical thermodynamics、Special Topics in Physical chemistry、Atom and Molecular Spectroscopy、Molecular Modeling | 7 take 2 |
| Analytical Chemistry | Advanced Analytical Chemistry (I)、Advanced Analytical Chemistry (II)、Special Topics in Analytical Chemistry、Analytical Electrochemistry | 4 take 2 |
| Applied Chenistry | Unit Operation、Advanced Chemistry Industries、Special Topics of advanced chemistry Industries、Advanced Polymer Chemistry | 4 take 2 |

V. Other condition

(a) You should take major field courses and at least 1 minor field course, BTW, advanced biochemistry(II) can be the minor of organic chemistry field.

(b) If you have college diploma but your chemistry major is not enough should make-up the courses and the other advanced or special topics courses before graduated

(c) If you don’t have college diploma should make-up 4 fields (organic chemistry, inorganic , physical chemistry and analytical chemistry) courses.

VI. first semester of the master student should take 6 credit at least and maximum is 18 credit.

VII. If you change major field or change advisor should change all documents in office and at least after 3 semesters finished all course and study then can be graduate.

VIII. If you want to take education courses should pass school test and take the course in 2nd year, every semester can take 9 credit and graduate in 3rd year 2nd semester for oral exam.(if your major courses is not conform NTNU Chemistry should cover it by yourself.)

IX. About the foreigner language ability verification, should pass school English test for over 100 scores or GEPT intermediate level or join school English make-up courses before graduate.

X. The Method is for 104 school years.

XI. If something special will open a meeting and discuss.