

Master of Science in Chemistry & Doctor of Philosophy in Chemistry

Department of Chemistry, Faculty of Science, Chulalongkorn University

(โครงสร้างหลักสูตรวท.ม. และวท.ด. สาขาวิชาเคมี หลักสูตร พ.ศ. 2561)

| Coursework program | M.Sc. Plan A2 (แผน ก2) | Ph.D. | |
|--|------------------------------|---------------------------------|---------------------------------|
| | | Scheme 2.1 (M.Sc. graduates) | Scheme 2.2 (B.Sc. graduates) |
| Program ID | 3301 | 3304 | 3305 |
| Course curriculum | | | |
| course work (credits) | 12 | 12 | 24 |
| thesis / dissertation (credits) | 24 | 36 | 48 |
| minimum total (credits) | 36 | 48 | 72 |
| Required courses (credits) | 1 | 1 | 2 |
| 2302700 Graduate Seminar I (0) | + | | |
| 2302702 Graduate Seminar II (1) | + | | + |
| 2302703 Graduate Seminar III (1) | | + | + |
| 2302704 Chemical Safety in Research Laboratory (0) | + | + | + |
| 2302894 Doctoral Dissertation Seminar (0) | | + | + |
| 2302897 Qualifying Examination (0) | | + | + |
| Approved elective courses / Required divisional courses | 6 | 0-3 | 9 |
| ★ Analytical chemistry division (A) | 6 | 0 | 9 |
| 2302641 Separation Techniques (3) | choose 6 cr | | + |
| 2302642 Electroanalytical Chemistry (3) | from A | | + |
| 2302643 Spectroanalytical Chemistry (3) | | | + |
| ★ Inorganic chemistry division (I) | 6 | 0 | 9 |
| 2302620 Advanced Inorganic Chemistry (3) | choose 6 cr | | + |
| 2302623 Characterization of Inorganic Compounds (3) | from I | | + |
| 2302627 Organotransition Metal Chemistry (3) | | | + |
| ★ Organic chemistry division (O) | 6 | 3 | 9 |
| 2302673 Advanced Organic Chemistry (3) | choose 6 cr | choose 3 cr | choose 9 cr |
| 2302678 Organic Reactions and Mechanisms (3) | from O | from O | from O |
| 2302774 Advanced Organic Synthesis (3) | | | |
| 2302776 Spectroscopy of Organic Compounds (3) | | | |
| ★ Physical chemistry division (P) | 6 | 0 | 9 |
| 2302632 Mathematical Methods and Thermodynamics (3) | choose 6 cr | | choose 9 cr: |
| 2302633 Quantum Chemistry and Spectroscopy (3) | from P | | at least 6 cr from P |
| 2302634 Solution Chemistry and Chemistry of Surface and Colloids (3) | | | +3 cr from A, I, O, P |
| Elective courses | 5 | 8-11 | 13 |
| ★ Analytical / Inorganic / Physical chemistry division | | 11 | |
| ★ Organic chemistry division | | 8 | |