

MS in chemistry

Thesis Tracks

The master of chemistry at SHU requires a total of 30 credits for the thesis option. The thesis option students need to sign up with a faculty for six credits of thesis CH599.

A) Required Chemistry Courses

18 credits for thesis option (including 6 Cr. CH599)

Course # and title	Credits	
CH521 Adv. Org. Chemistry	3	Or, CH522 Org. Synthesis
CH531 Adv. Physical chemistry I mol. structure	3	Or, CH532 Adv. Physical chem. II mol. Dyn.
CH561 Adv. Analy. Inst. Spectroscopic	3	Or, CH562 Adv. Analyt. Inst. Chrom.
CH553 Adv. Inorganic Chemistry	3	Or, CH555 Theoretical Inorg. Chemistry
CH599 Thesis	6	

B) Elective Courses

12 credits for thesis option

Course # and title	Credits	
CH525 Supramolecular Chemistry	3	
CH526 Medicinal Chemistry and Pharmacology	3	
CH529 Special topic: Nuclear Magnetic Resonance Spectroscopy	3	
CH537 Micro/Nanophase Materials: Chem. Process & Analysis	3	
CH545 Bio-informatics	3	
CH547 Computational Chemistry & molecular Modeling	3	
CH556 Chemical Application of Group Theory	3	
CH567 CH-Experimental Design	3	
CH569 Special Topic: Mass Spectrometry	3	
CH571 Adv Environmental Chemistry	3	
CH575 Polymer Chemistry	3	
CH590 Chem-informatic	3	

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