

Enquiry for Course Details

CHEM4910 Chemistry literacy and research (6 credits)		Academic Year	2020								
Offering Department	Chemistry	Quota	---								
Course Co-ordinator	Dr X Li, Chemistry < xiangli@hku.hk >										
Teachers Involved	(Various teachers in the Department, Chemistry)										
Course Objectives	This course is designed for final year students who would like to gain experience on research methods and techniques by working on small projects on literature research and chemistry research.										
Course Contents & Topics	The course provides training on chemistry literature research techniques. Students will work on a small project on literature research and a short laboratory-based research project. The laboratory-based projects are provided by the students' supervisors who are assigned by the department.										
Course Learning Outcomes	<p>On successful completion of this course, students should be able to:</p> <table border="1"> <tr> <td>CLO 1</td> <td>demonstrate knowledge of academic databases and search engines of chemistry literature</td> </tr> <tr> <td>CLO 2</td> <td>understand the terminology and nomenclature associated with their own research project</td> </tr> <tr> <td>CLO 3</td> <td>demonstrate knowledge and understanding of the chemical techniques they used to do the research in their own research project</td> </tr> <tr> <td>CLO 4</td> <td>demonstrate knowledge and understanding of the results of their own research project and its context in the broader research area</td> </tr> </table>			CLO 1	demonstrate knowledge of academic databases and search engines of chemistry literature	CLO 2	understand the terminology and nomenclature associated with their own research project	CLO 3	demonstrate knowledge and understanding of the chemical techniques they used to do the research in their own research project	CLO 4	demonstrate knowledge and understanding of the results of their own research project and its context in the broader research area
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Pre-requisites (and Co-requisites and Impermissible combinations)	<p>Pass in at least 24 credits of advanced level disciplinary core/elective chemistry courses (CHEM3XXX or CHEM4XXX) in the Chemistry Major including CHEM3241, and CHEM3341, and CHEM3441, and CHEM3541.</p> <p>This capstone course is for Chemistry Major students only.</p> <p>The earliest that a student is allowed to take this capstone course is their year 3 study.</p>										
Course Status with Related Major/Minor /Professional Core	2020 Major in Chemistry (Disciplinary Elective) 2020 Minor in Chemistry (Disciplinary Elective) 2019 Major in Chemistry (Disciplinary Elective) 2019 Minor in Chemistry (Disciplinary Elective) 2018 Major in Chemistry (Disciplinary Elective) 2018 Minor in Chemistry (Disciplinary Elective) 2017 Major in Chemistry (Disciplinary Elective) 2017 Minor in Chemistry (Disciplinary Elective) 2016 Major in Chemistry (Disciplinary Elective) 2016 Minor in Chemistry (Disciplinary Elective)										
Course to PLO Mapping	2020 Major in Chemistry < PLO 1,2,3,4,5,6 > 2019 Major in Chemistry < PLO 1,2,3,4,5,6 > 2018 Major in Chemistry < PLO 1,2,3,4,5,6 > 2017 Major in Chemistry < PLO 1,2,3,4,5,6 > 2016 Major in Chemistry < PLO 1,2,3,4,5,6 >										
Offer in 2020 - 2021	Y 2nd sem	Examination	No Exam								
Offer in 2021 - 2022	Y										
Course Grade	A+ to F										

Grade Descriptors	<table border="1"> <tr> <td>A</td> <td>Show an extensive comprehension of the research project. Demonstrate very able analytical and critical thought with presence of some originality. Illuminating utilization and critical analysis / evaluation of information acquired from a wide range of high quality sources. Critical employment of data and results to synthesize appropriate and illuminating conclusions. Demonstrate integration of a wide range of appropriate theories, principles, data and methods. Employ very effective organizational and presentational skills. [Work of A+ should demonstrate substantial additional work beyond that is required in wider areas relevant to the topic.]</td> </tr> <tr> <td>B</td> <td>Show a substantial comprehension of the research project. 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Course Teaching & Learning Activities	<table border="1"> <thead> <tr> <th>Activities</th> <th>Details</th> <th>No. of Hours</th> </tr> </thead> <tbody> <tr> <td>Reading / Self study</td> <td>12 hrs tutorials; 46 hrs of workshops and 100 hrs reading/self study</td> <td>158</td> </tr> </tbody> </table>	Activities	Details	No. of Hours	Reading / Self study	12 hrs tutorials; 46 hrs of workshops and 100 hrs reading/self study	158						
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Research report		50	CLO 1,2,3,4										
Required/recommended reading and online materials	Reading materials will be assigned depending on the project.												
Course Website	NIL												
Additional Course Information	Satisfactory completion of this course will be counted towards the Capstone requirement.												

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