課程資訊	
課程名稱	物理化學一 Physical Chemistry（Ⅰ）
開課學期	114-1
授課對象	化學工程學系
授課教師	闕居振
課號	ChemE2005
課程識別碼	504E26110
班次	02
學分	3.0
全/半年	半年
必/選修	必修
上課時間	星期一 3,4(10:20~12:10)星期四 2(9:10~10:00)
上課地點	綜 402 綜 402
備註	本課程以英語授課。 總人數上限：45 人
課程簡介影片	
核心能力關聯	核心能力與課程規劃關聯圖

課程大綱	
為確保您我的權利,請尊重智慧財產權及不得非法影印	
課程概述	This is a foundational course that explores the principles of chemical systems through the perspectives of chemistry, physics, and mathematics. It serves as the basis for advanced study in chemistry and related disciplines.
課程目標	Course objectives are to provide students with a rigorous understanding of the fundamental principles governing the physical behavior of chemical systems.
課程要求	
預期每週課前或/與課後學習時數	Before: 1-2 hours / After 4-6 hours
Office Hours	每週三 15:00~17:00
指定閱讀	

<table>
<tr><td>參考書目</td><td colspan="2"></td></tr>
<tr><td>評量方式
(僅供參考)</td><td colspan="2"></td></tr>
<tr><td rowspan="4">針對學生困難提供學生調整方式</td><td>上課形式</td><td>以錄音輔助, 以錄影輔助</td></tr>
<tr><td>作業繳交方式</td><td></td></tr>
<tr><td>考試形式</td><td></td></tr>
<tr><td>其他</td><td></td></tr>
</table>

課程進度

週次	日期	單元主題
Week 1		Kinetic Theory of Gases
Week 2		Kinetic Theory of Gases / Review of laws of thermodynamics
Week 3		Review of laws of thermodynamics
Week 4		Review of laws of thermodynamics
Week 5		1st Exam
Week 6		Chemical equilibrium
Week 7		Chemical equilibrium / Phase equilibrium
Week 8		Phase equilibrium
Week 9		Phase equilibrium / Solution of electrolytes
Week 10		Solution of electrolytes
Week 11		2nd Exam
Week 12		Electrochemical cells
Week 13		Electrochemical cells
Week 14		Chemical kinetics
Week 15		Chemical kinetics
Week 16		Final Exam