

Jinan University Fulltime Undergraduate Program Course Description

Course Offered by: College of Chemistry and Materials Science

Student Type: Mainland and Non-Mainland Students

Credits: 3 Hrs./Week: 3 Total Hrs. 54

Course Title	Analytical Chemistry		
Previous Course Title			
Course Code	60060003	Course Type	Compulsory
Prerequisite Course(s)	General Chemistry	Course Evaluation	Closed-book
<p>(Teaching Objectives、Teaching Requirements、Teaching Contents)</p> <p>Analytical chemistry is one of the basic courses for pharmacy and food quality and safety(FQS). The basic content of analytical chemistry is quantitative analysis. By studying this course, the students are required to master the fundamentals of analytical chemistry, build up the concept of exact quantity, and finally lay a solid foundation for the studying of the following course. This course involves the chemical and instrumental methods commonly used in practice. It includes: data processing in analytical chemistry, acid-base equilibrium and acid-base titrations, complexation reactions and titrations, redox equilibrium and titrations, precipitation titrations, spectroscopic analysis, chromatographic methods.</p>			
Text Book(s) and Reference Materials	<p>Text Book:</p> <p>Douglas A. Skoog, Donald M. West et al, Fundamentals of Analytical Chemistry, 9th Edition,2014</p> <p>Reference Materials:</p> <p>(1) Gary D. Christian et al., Analytical chemistry, Hoboken, NJ :Wiley, 2013.</p> <p>(2) R. Kellner, J.-M.Mermet, M. Otto, M. Valcácel, Analytical chemistry, Weinheim ;[Great Britain] :Wiley-VCH,c2004.</p> <p>(3) 分析化学(第 6 版) 武汉大学, 高等教育出版社, 2016</p> <p>(4) 《分析化学》(第八版) 柴逸峰、邸欣, 人民卫生出版社, 2016</p>		

暨南大学全日制本科课程简介

开课单位： 化学与材料学院化学系分析化学教研室 适用学生类别： 内、外招生

学 分： 3 周学时： 3 总 学 时： 54

课程名称	分析化学		
课程曾用名			
课程编号	60060003	课程类别	学科基础课
先修课程	无机化学	考核方式	闭卷考试
<p>（教学目标、教学要求、教学内容）</p> <p>《分析化学》是药学、食品等专业的基础课之一。本课程以定量分析为基本内容，通过本课程的学习，要求学生掌握分析化学的基本原理，树立准确的量的概念，为后续专业课程的学习打下基础。主要内容为药物分析中较常用到的化学和仪器方法，包括分析化学总的数据处理、酸碱平衡和酸碱滴定法、配位平衡和配位滴定法、氧化还原平衡和氧化还原滴定法、沉淀滴定法、吸光光度法、色谱法等。</p>			
教材及主要参考书目	<p>教材： Douglas A. Skoog, Donald M. West et al, Fundamentals of Analytical Chemistry, 9th Edition, 2014</p> <p>参考书： (1) Gary D. Christian et al., Analytical chemistry, Hoboken, NJ :Wiley, 2013. (2) R. Kellner, J.-M. Mermet, M. Otto, M. Valc á cel, Analytical chemistry, Weinheim ;[Great Britain] :Wiley-VCH, c2004. (3) 分析化学(第6版) 武汉大学, 高等教育出版社, 2016 (4) 《分析化学》(第八版) 柴逸峰、邸欣, 人民卫生出版社, 2016</p>		