

课程代码:
课程名称: 大学英语 A
学分: 3
课程描述: 该课程主要任务是培养学生的英语综合运用能力,使学生在今后的工作和社会交往中能用英语有效的进行口头和书面的信息交流。
课时安排: 54 学时
先修课程:
考核方式: 成绩由平时考核成绩和期末考核成绩构成。 课程成绩: 总成绩评定: 期末考试占总成绩的 45%, 平时成绩占总成绩的 25%, 网络成绩占总成绩的 15%, 口语成绩占总成绩的 15%。 平时成绩评定: (1) 作业完成情况: 学生平时作业提交次数及完成质量; (2) 课堂表现: 学生主动课堂练习、讨论, 创造性的提出问题的能力。 (3) 考勤 网络成绩评定: (1) 在线学习时间和完成网络课程练习情况; (2) 在线作业和测试, 班级论坛活动等情况。 口语成绩评定: 每学期老师可以根据班级具体情况采用不同的考试方式, 如演讲, 讨论, 辩论等形式。 期末考试: 期末闭卷考试, 考核课程教学内容。
教材: 覃朝宪, 张家政, 《大学英语自主阅读》.北京: 高等教育出版社.2007. 文旭, 《新思维大学英语读写教程》.北京: 外文出版社.2012. 郑树棠, 《新视野大学英语视听说教程》第三版.北京: 外语教学与研究出版社。2015.
教师:

Unit code:
Unit name: College English A
Credits: 3
Introduction: The main task of this course is to cultivate students' comprehensive ability to use English, so as to enable students to communicate effectively both verbally and in writing in English in the future work and social interaction.
Teaching Pattern: 54 hrs
Prerequisite:
Course Assessment: Final Score=Usual Score*25%+Final Exam Score*45%+Internet Score 15%+Oral Score 15%. Usual Score is Determined by attendance rate, homework and class check; Final Exam: Closed-book examination
Textbook:

ChaoXian Qin, jia-zheng zhang, The independent college English reading. Beijing: Higher Education press. 2007.

Xu Wen, The new thinking of college English reading and writing tutorials. Beijing: Foreign Language publishing house. 2012.

Shutang Zheng, New horizon college English audio-visual course of introduction to the third edition. Beijing: Foreign language teaching and research press. 2015.

Course Director:

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课程代码:
课程名称: 大学英语 B
学分: 3
课程描述: 该课程主要任务是培养学生的英语综合运用能力,使学生在今后的工作和社会交往中能用英语有效的进行口头和书面的信息交流。
课时安排: 54 学时
先修课程:
考核方式: 成绩由平时考核成绩和期末考核成绩构成。 课程成绩: 总成绩评定: 期末考试占总成绩的 45%, 平时成绩占总成绩的 25%, 网络成绩占总成绩的 15%, 口语成绩占总成绩的 15%。 平时成绩评定: (1) 作业完成情况: 学生平时作业提交次数及完成质量; (2) 课堂表现: 学生主动课堂练习、讨论, 创造性的提出问题的能力。 (3) 考勤 网络成绩评定: (1) 在线学习时间和完成网络课程练习情况; (2) 在线作业和测试, 班级论坛活动等情况。 口语成绩评定: 每学期老师可以根据班级具体情况采用不同的考试方式, 如演讲, 讨论, 辩论等形式。 期末考试: 期末闭卷考试, 考核课程教学内容。
教材: 覃朝宪, 张家政, 《大学英语自主阅读》.北京: 高等教育出版社.2007. 文旭, 《新思维大学英语读写教程》.北京: 外文出版社.2012。 郑树棠, 《新视野大学英语视听说教程》第三版。北京: 外语教学与研究出版社。2015.
教师:

Unit code:
Unit name: College English B
Credits: 3
Introduction: The main task of this course is to cultivate students' comprehensive ability to use English, so as to enable students to communicate effectively both verbally and in writing in English in the future work and social interaction.

Teaching Pattern: 54 hrs
Prerequisite:
Course Assessment: Final Score=Usual Score*25%+Final Exam Score*45%+Internet Score 15%+Oral Score 15%. Usual Score is Determined by attendance rate, homework and class check; Final Exam: Closed-book examination
Textbook: Chaoian Qin, jia-zheng zhang, The independent college English reading. Beijing: Higher Education press. 2007. Xu Wen, The new thinking of college English reading and writing tutorials. Beijing: Foreign Language publishing house. 2012. Shutang Zheng, New horizon college English audio-visual course of introduction to the third edition. Beijing: Foreign language teaching and research press. 2015.
Course Director:

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课程代码:
课程名称: 大学英语 C
学分: 3
课程描述: 该课程主要任务是培养学生的英语综合运用能力,使学生在今后的工作和社会交往中能用英语有效的进行口头和书面的信息交流。
课时安排: 54 学时
先修课程:
考核方式: 成绩由平时考核成绩和期末考核成绩构成。 课程成绩: 总成绩评定: 期末考试占总成绩的 50%, 平时成绩占总成绩的 20%, 网络成绩占总成绩的 15%, 口语成绩占总成绩的 15%。 平时成绩评定: (1) 作业完成情况: 学生平时作业提交次数及完成质量; (2) 课堂表现: 学生主动课堂练习、讨论, 创造性的提出问题的能力。 (3) 考勤 网络成绩评定: (1) 在线学习时间和完成网络课程练习情况; (2) 在线作业和测试, 班级论坛活动等情况。 口语成绩评定: 每学期老师可以根据班级具体情况采用不同的考试方式, 如演讲, 讨论, 辩论等形式。 期末考试: 期末闭卷考试, 考核课程教学内容。
教材: 覃朝宪, 张家政, 《大学英语自主阅读》.北京: 高等教育出版社.2007. 文旭, 《新思维大学英语读写教程》.北京: 外文出版社.2012。 郑树棠, 《新视野大学英语视听说教程》第三版。北京: 外语教学与研究出版社。2015.
教师:

Unit code:
Unit name: College English C
Credits: 3
Introduction: The main task of this course is to cultivate students' comprehensive ability to use English, so as to enable students to communicate effectively both verbally and in writing in English in the future work and social interaction.
Teaching Pattern: 54hrs
Prerequisite:
Course Assessment: Final Score=Usual Score*20%+Final Exam Score*50%+Internet Score 15%+Oral Score 15%. Usual Score is Determined by attendance rate, homework and class check; Final Exam: Closed-book examination
Textbook: Chaoxian Qin, jia-zheng zhang, The independent college English reading. Beijing: Higher Education press. 2007. Xuwen, The new thinking of college English reading and writing tutorials. Beijing: Foreign Language publishing house. 2012. Shutang Zheng, New horizon college English audio-visual course of introduction to the third edition. Beijing: Foreign language teaching and research press. 2015.
Course Director:

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课程代码:
课程名称: 大学英语 D
学分: 3
课程描述: 该课程主要任务是培养学生的英语综合运用能力,使学生在今后的工作和社会交往中能使用英语有效的进行口头和书面的信息交流。
课时安排: 54 学时
先修课程:
考核方式: 成绩由平时考核成绩和期末考核成绩构成。
课程成绩: 总成绩评定: 期末考试占总成绩的 50%, 平时成绩占总成绩的 20%, 网络成绩占总成绩的 15%, 口语成绩占总成绩的 15%。 平时成绩评定: (1) 作业完成情况: 学生平时作业提交次数及完成质量; (2) 课堂表现: 学生主动课堂练习、讨论, 创造性的提出问题的能力。 (3) 考勤 网络成绩评定: (1) 在线学习时间和完成网络课程练习情况;

<p>(2) 在线作业和测试, 班级论坛活动等情况。</p> <p>口语成绩评定: 每学期老师可以根据班级具体情况采用不同的考试方式, 如演讲, 讨论, 辩论等形式。</p> <p>期末考试: 期末闭卷考试, 考核课程教学内容。</p>
<p>教材: 覃朝宪, 张家政, 《大学英语自主阅读》.北京: 高等教育出版社.2007.</p> <p>文旭, 《新思维大学英语读写教程》.北京: 外文出版社.2012.</p> <p>郑树棠, 《新视野大学英语视听说教程》第三版。北京: 外语教学与研究出版社。2015.</p>
<p>教师:</p>

<p>Unit code:</p>
<p>Unit name: College English D</p>
<p>Credits: 3</p>
<p>Introduction:</p> <p>The main task of this course is to cultivate students' comprehensive ability to use English, so as to enable students to communicate effectively both verbally and in writing in English in the future work and social interaction.</p>
<p>Teaching Pattern: 54 hrs</p>
<p>Prerequisite:</p>
<p>Course Assessment:</p> <p>Final Score=Usual Score*20%+Final Exam Score*50%+Internet Score 15%+Oral Score 15%.</p> <p>Usual Score is Determined by attendance rate, homework and class check;</p> <p>Final Exam: Closed-book examination</p>
<p>Textbook:</p> <p>Chaoxian Qin, jia-zheng zhang, The independent college English reading. Beijing: Higher Education press. 2007.</p> <p>Xuwen, The new thinking of college English reading and writing tutorials. Beijing: Foreign Language publishing house. 2012.</p> <p>Shutang Zheng, New horizon college English audio-visual course of introduction to the third edition. Beijing: Foreign language teaching and research press. 2015.</p>
<p>Course Director:</p>

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<p>课程代码: 21110010</p>
<p>课程名称: 大学计算机基础 I</p>
<p>学分: 4</p>
<p>课程描述:</p> <p>为全校非艺术类学生开设的一门计算机公共必修课程, 主要讲授计算机基础知识、计算机基本技能及计算思维方式, 其目的和任务是全面培养学生的信息素养, 提高学生的计算机应用水平; 培养学生养成良好的计算思维能力, 培养学生进一步学习新知识、新软件的能力, 让计算机融入学生的学习、工作和生活中, 以解决某些实际问题。</p>
<p>课时安排: 45 (理论) +40 (实验) 学时</p>

先修课程: 无
考核方式: 期末机考+平时成绩+实验成绩 课程成绩: 总成绩评定: 期末考试占总成绩的 50%, 平时成绩占总成绩的 35%, 实验成绩占总成绩的 15%。 平时成绩评定: 作业完成情况, 课堂表现, 课堂出勤, 课程学习交流情况等。 期末考试: 机考。
教材: 计算思维类:《大学计算机-计算思维的视角(第3版)》郝兴伟编著, 高等教育出版社.2017年4月。 计算机基础类:《大学计算机基础(第6版)》龚沛曾、杨志强主著, 高等教育出版社.2013年7月。 实践教程《大学计算机基础实践教程》邹显春, 高等教育出版社
教师:

Unit code: 21110010
Unit name: Fundamentals of Computers I
Credits: 4
Introduction: As a computer public required course for non-art students of the entire school, it mainly covers computer basic knowledge, basic computer skills and calculation thinking ways; its purpose and mission are to fully develop the students' information literacy, improve students' computer application level, develop good thinking ability, and cultivate students' ability to further study the new knowledge, new software, which let the computer into the student's study, work and life to solve some practical problems.
Teaching Pattern: 45 hrs (theory) + 40 hrs (experiment)
Prerequisite: Introduction to food technology, Principles of food engineering, Food machinery, Mechanical drawing, etc
Course Assessment: Final Score=Usual Score*35%+Final Exam Score*50%+experiment15% Usual Score is Determined by Job completion, classroom performance, attendance rate, communication Final Exam: closed examination
Textbook: Hongjun Li. Food factory design, China Agricultural press, 2010
Course Director:

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课程代码: 90110031
课程名称: 大学生职业发展与就业指导 A
学分: 0.5
课程描述: 现阶段作为我校通识必修课, 主要涉及大学生职业生涯规划以及就业、创业指导等方面的内容, 通过教学促使大学生理性地规划自身未来的发展, 并努力在学习过程中自觉地提高

就业能力和生涯管理能力。
课时安排: 9 学时
先修课程: 无
考核方式: 课程成绩:
教材: 《大学生职业发展与就业指导》，黄蓉生主编，人民出版社，2015 年第 1 版
教师:

Unit code: 90110031
Unit name: College students career development and employment guidance A
Credits: 0.5
Introduction: As our compulsory courses, it mainly involves college students' career planning and employment, entrepreneurship instruction and so on, which assist college students rationally to plan the development of their own future and strive to consciously increase employment in the process of learning and career management ability.
Teaching Pattern: 9hrs
Prerequisite: Introduction to food technology, Principles of food engineering, Food machinery, Mechanical drawing, etc
Course Assessment: Final Score=Usual Score*40%+Final Exam Score*60% Usual Score is Determined by attendance rate,practice and class check Final Exam: computer-based testing
Textbook: "Career development and employment guidance of college students", Rongsheng Huang, People's Publishing House press, 2015
Course Director:

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课程代码: 90110032
课程名称: 大学生职业发展与就业指导 B
学分: 0.5
课程描述: 现阶段作为我校通识必修课，主要涉及大学生职业生涯规划以及就业、创业指导等方面的内容，通过教学促使大学生理性地规划自身未来的发展，并努力在学习过程中自觉地提高就业能力和生涯管理能力。
课时安排: 9 学时
先修课程: 无
考核方式: 课程成绩:
教材: 《大学生职业发展与就业指导》，黄蓉生主编，人民出版社，2015 年第 1 版
教师:

Unit code: 90110032
Unit name: College students career development and employment guidance B
Credits: 0.5
Introduction: As our compulsory courses, it mainly involves college students' career planning and employment, entrepreneurship instruction and so on, which assist college students rationally to plan the development of their own future and strive to consciously increase employment in the process of learning and career management ability.
Teaching Pattern: 9 hrs
Prerequisite: Introduction to food technology, Principles of food engineering, Food machinery, Mechanical drawing, etc
Course Assessment: Final Score=Usual Score*40%+Final Exam Score*60% Usual Score is Determined by attendance rate, practice and class check Final Exam: computer-based testing
Textbook: "Career development and employment guidance of college students", Rongsheng Huang, People's Publishing House press, 2015
Course Director:

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课程代码: 14210020
课程名称: 高等数学 II
学分: 6.5
课程描述: 该课程主要任务是使学生熟悉和掌握高等数学研究问题的基本方法,学习科学的思想方法,掌握必要的基础理论和基本运算能力,培养学生的抽象思维能力、逻辑推理能力、经济管理领域的数量分析能力。
课时安排: 117 学时
先修课程:
考核方式: 闭卷考试+平时成绩
课程成绩: 卷面成绩 70%+平时成绩 30%
教材: 《高等数学》, 刘长文, 主编, 高等农业教育出版社
教师:

Unit Code: 14210020
Unit name: Higher Mathematics II
Credits: 6.5
Introduction: The main task is to make students familiar with and master basic methods of higher mathematics research problems, learn to think in a scientific way, master the necessary basic theory and basic operation ability, and develop the students' ability of abstract thinking, logic

reasoning, quantitative analysis ability in the field of economic management.
Teaching Pattern: 117 hrs
Prerequisite: Elementary Mathematics
Course Assessment: Closed book examination + usual results Coil score 70% + usual 30%
Textbook: "Higher Mathematics", Liu Changwen, editor, Higher Agricultural Education Press
Course Director:

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课程代码: 14210050
课程名称: 线性代数 II
学分: 2
课程描述: 课程基本任务是学习行列式, 矩阵及其运算, 向量的线性相关性, 矩阵的初等变换与线性方程组, 相似矩阵及二次型等有关的知识。通过学习使学生具备有关线性代数的基本理论及方法, 并能用它解决一些实际问题。
课时安排: 36
先修课程: 高等数学 II
考核方式: 闭卷考试+平时成绩
课程成绩: 卷面成绩 70%+平时成绩 30%
教材: 《线性数学》, 同济大学应用系编/著, 高等教育出版社
教师:

Unit Code: 14210050
Unit name: Linear algebra II
Credits: 2
Introduction: The basic task of the course is to learn about determinants, matrices and operations, linear correlations of vectors, elementary transformations of matrices and linear equations, similar matrices and quadratic forms. The students can solve some practical problems by learning the basic theory and method of linear algebra.
Teaching Pattern: 36
Prerequisite: Higher Mathematics II
Course Assessment: Closed book examination + usual results Coil score 70% + usual 30%
Textbook: "Linear Mathematics", Tongji University Department of Applied Applications, Higher Education Press
Course Director:

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课程代码: 14210070
课程名称: 概率论与数理统计

学分: 3
课程描述: 课程由概率论和数理统计两部分组成。概率论侧重于探讨概率论的基本概念,建立一系列的定理与公式,寻求解决问题的理论与方法,包括随机事件与概率、随机变量及分布、随机变量的数字特征、大数定律与中心极限定理等内容。数理统计以概率论为理论基础,研究随机现象的呈现的结果进行统计推断,主要包括数理统计的概念、参数估计、假设检验、回归分析等内容。
课时安排: 54
先修课程: 高等数学II、线性代数II
考核方式: 闭卷考试+平时成绩
课程成绩: 卷面成绩 70%+平时成绩 30%
教材: 《概率论与数理统计》, 吴赣昌主编, 中国人民大学出版社, 2011 年第四版
教师:

Unit Code: 14210070
Unit name: Probability Theory and Mathematical Statistics
Credits: 3
Introduction: The course consists of probability theory and mathematical statistics. Probability theory focuses on discussing basic concepts of probability theory, establishing a series of theorems and formulas, searching for the theory and method to solve the problem, including random events and probability, random variables and distribution, digital features of random variables, law of large numbers and central limit theorem, etc. Mathematical statistics take the theory of probability theory as the basis to study presenting results of the random phenomenon to carry on the statistical inference, which mainly include the concept of mathematical statistics, parameter estimation, hypothesis testing, regression analysis, etc.
Teaching Pattern: 54
Prerequisite: Higher Mathematics II, Linear algebra II
Course Assessment: Closed book examination + usual results Coil score 70% + usual 30%
Textbook: "Probability theory and mathematical statistics", Wu Ganchang editor, Renmin University of China Press, the fourth edition of 2011
Course Director:

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课程代码: 15210030
课程名称: 大学物理 III
学分: 4
课程描述: 物理学是探讨物质结构和运动基本规律的科学,它研究的对象是物质最基本、最普遍的运动形式,它研究的规律具有极大的普遍性。物理学是除了数学以外的一切自然科学的基础,也是当代工程技术的重要理论支柱。物理学的理论、研究方法、实验技术在化学、生物、农

业、信息科学等已得到了广泛的应用。该课程主要讲述物理学的基本概念、基本定理（定律）及其一些重要应用。其主要内容包括：力学、热学、电磁学、振动与波、光学等。除此之外，介绍物理学在现代科学技术中的应用也是本课程的重要内容之一。通过本课程学习，使学生正确认识物理学基本理论的建立和发展过程，培养学生科学的思维方法和研究方法，提高学生科学研究能力和创新能力，为学生学习专业知识和近代科技技术打下必要的物理基础。
课时安排： 讲授 54 学时，实验 27 学时。讲授每周 3 学时，实验每周 3 学时
先修课程： 高等数学 II
考核方式： 闭卷考试；最终成绩由期末考试成绩、平时成绩和实验成绩组成，比例分别为 60%、15%和 25%。平时成绩由课堂出勤率、作业的完成情况确定。
教材： 杨亚玲 主编. 大学物理学[M]. 北京：中国农业出版社, 2014.
教师：

Unit code: 15210030
Unit name: College Physics III
Credits: 4
<p>Introduction:</p> <p>Physics is a discipline of natural science which studies the basic structure, movement form and interaction of matters. It includes mechanical movement, thermal motion of molecules, electromagnetic motion, atomic and nuclear internal movement, which widely exists in each advanced and complicated form of motion. Physics is regarded as the foundation of all natural sciences besides Mathematics, as well as the theoretical pillar of modern engineering technology. The College Physics III is a compulsory theory curriculum with the content of general concepts, theorem (law) and important application of matters' motion. This course introduces the mechanics, thermotics, vibration and wave, electromagnetics, optics, and basic knowledge of mechanics of special relativity. In addition, the utilization of physics in modern science and technology is also introduced as one important part of this course. This course aims to let student comprehend and utilize theories correctly, cultivate students ability with scientific thinking and researching method, prepare students with sufficient physics knowledge and experiment skills for learning subsequent curriculum.</p>
Teaching Pattern: 3 hrs lectures weekly (18wks), 3 hrs practical weekly (9 wks)
Prerequisite: Advanced Mathematics
<p>Course Assessment: Final Score=Usual Score*15%+Experimental Exam Score *25%+Final Exam Score*60%;</p> <p style="padding-left: 40px;">Usual Score is Determined by attendance rate and the completion of homework;</p> <p style="padding-left: 40px;">Final Exam: closed book exam</p>
Textbook: Yaling Yang et al. College Physics. Beijing: China Agriculture Press, 2014, 1
Course Director:

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课程代码： 16210010
课程名称： 普通化学
学分： 4
课程描述：

课程由理论和实验两部分组成：普通化学理论部分讲授现代化学的基本理论和基础知识；普通化学实验是理论教学的深化和补充，具有较强的实践性，主要涉及基本操作与技能练习、物质的性质与化学反应规律、物质特性常数的测定、独立设计与综合性实验。
课时安排： 72
先修课程： 高等数学II、大学物理III
考核方式： 闭卷考试+实验成绩+平时成绩
课程成绩： 卷面成绩 65%+实验成绩 30%+平时成绩 5%
教材： 《普通化学》，廖家耀主编，科学技术出版社，2012年第1版 《普通化学实验》，廖家耀主编，科学技术出版社，2012年第1版
教师：

Unit Code: 16210010
Unit name: General chemistry
Credits: 4
Introduction: The course consists of theory and experiment: General chemical theory presents the basic theory and basic knowledge of modern chemistry; General chemistry experiment is the deepening and supplement to theoretical teaching with strong practicality, which mainly involves the basic operation and skills practice, material properties and chemical reaction, material characteristic constant determination, independent design and comprehensive experiments.
Teaching Pattern: 72
Prerequisite: Higher Mathematics II, College Physics III
Course Assessment: Closed book examination + experimental results + usual results Score 65% + 30% of experimental results + 5%
Textbook: "General Chemistry", edited by Liao Jiayao, Science and Technology Press, 2012 first edition "General Chemistry Experiment", edited by Liao Jiayao, Science and Technology Press, 2012 first edition
Course Director:

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课程代码： 16210021
课程名称： 分析化学
学分： 3.5
课程描述： 分析化学是研究物质结构存在形式、化学组成和相对含量的科学，是研究化学现象和生命现象的必要的工具。培养学生在准确的概念、科研技能和科学素养方面具有重要地位，其任务是培养学生分析化学基础知识、操作技能和科学素质。
课时安排： 73
先修课程： 普通化学、高等数学II、大学物理III
考核方式： 闭卷考试+平时成绩
课程成绩： 卷面成绩 60%+平时成绩 40%

教材:《分析化学》, 陈时洪主编, 中国农业出版社, 2013 年第 1 版

《新分析化学教程》, 张明晓主编, 科学出版社, 2008 年第 1 版

教师:

Unit Code: 16210021

Unit name: Analytical Chemistry

Credits: 3.5

Introduction:

Analytical chemistry is the science to study existence form, chemical composition and relative content of the physical structure, which is the necessary tool for studying chemical phenomena and life phenomena. It is important to cultivate students' concept of accurate quantity, scientific research skills and scientific literacy. Its task is to cultivate students' analytical chemistry basic knowledge, operational skills and scientific quality.

Teaching Pattern: 73

Prerequisite: General chemistry, Higher Mathematics II, College Physics III

Course Assessment: Closed book examination + usual results

Score 60% + 40%

Textbook:

"Analytical Chemistry", edited by Chen Shixhong, China Agricultural Publishing House, 1st edition, 2013

"New Analytical Chemistry Course", edited by Zhang Mingxiao, Science Press, 2008 1st edition

Course Director:

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课程代码: 16210030

课程名称: 有机化学 I

学分: 4

课程描述

《有机化学》是化学的基础学科, 是研究有机化合物的组成、结构、性质及其变化规律和合成方法的科学。它与化学的其它分支是互相联系、互相渗透、互相促进的。无论从事化学中的哪一个领域的工作, 都必须具备有机化学基础知识。

本课程主要介绍各类有机化合物的命名、结构特征、物理性质、化学性质、用途、来源和制备方法; 各类官能团的特性、取代反应、加成反应、消除反应、重排反应、氧化还原反应等各种类型有机反应的反应原理、条件及其影响因素、应用范围; 有机结构理论; 重要的反应机理, 尤其是各类化合物的结构与反应性关系; 有机分子的立体化学基本概念, 简单的有机合成; 有机化合物的分离鉴定, 有机化合物的结构测定等。

通过本课程的学习, 使学生系统全面掌握有机化学的基本知识和基础理论, 培养学生分析问题和解决问题的能力, 为学好后续课程打下坚实的基础。

课时安排: 课堂讲授 54 学时, 实验 27 学时。讲授每周 3 学时, 实验每周 3 学时

先修课程: 普通化学

考核方式: 闭卷考试, 成绩评定过程中, 考试成绩占 60%, 实验成绩占 20%, 平时成绩占 20%, 综合后的成绩为本门课的最终成绩。平时成绩由课堂出勤、平时作业、课堂表现等确

定。
教材: 李贵深, 李宗澧.有机化学[M], 北京, 中国农业出版社, 2013 T. W. Graham Solomons,Craig Fryhle.Organic Chemistry(Tenth Edition).Wiley,2009
教师: 李宗澧

Unit code: 16210030
Unit name: Organic Chemistry I
Credits: 4
Introduction: The Organic Chemistry is one foundational discipline of Chemistry, which studies on the composition, structure and characteristics of organic compounds, as well as their regulation and principles of change and synthesis methods. It has a mutual connection, penetration and promotion relationship with other disciplines of Chemistry. One must have knowledge of Organic Chemistry no matter he/she works in what field in Chemistry. The Organic Chemistry is a compulsory theory curriculum. The content includes nomenclature, structure, physical and chemical properties, utilization, originate and preparation methods of various kinds of organic compounds; characteristics of various functional groups; the reaction principles, conditions, impact factors and scope of utilization of various types of organic reaction, such as substitution, addition reaction, rearrangement, elimination and oxidation reduction; theory of organic structure; the mechanism of important reactions especially about the relationship between structure and reactivity of various compounds; basic concepts of organic stereo chemical molecules; simple organic synthesis; Isolation, identification and structure determination of organic compounds. This curriculum enables students to systematically and comprehensively master knowledge and theory of Organic Chemistry, cultivates students' ability to analyze and solve problems, and lays a solid foundation for learning subsequent major courses.
Teaching Pattern: 3 hrs lectures weekly (18wks), 3 hrs practical weekly (9 wks)
Prerequisite: General chemistry
Course Assessment: Final Score=Usual Score*20%+Final Exam Score*60%+ lab work (20%); Usual Score is Determined by attendance rate, homework, and the completion of experiments ; Final Exam: closed book exam
Textbook: Guishen Li, Zongli Li. The Organic Chemistry [M]. Beijing, China Agriculture Press, 2013. T. W. Graham Solomons,Craig Fryhle.Organic Chemistry(Tenth Edition).Wiley,2009
Course Director: Zongli Li

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课程代码: 26210010 / 26210021
课程名称: 基础生物化学
学分: 4.5
课程描述 生物化学是用化学的理论和方法研究生物体的化学组成以及在生命活动中所发生的化学变化及其调控规律, 从而阐明生命现象本质的一门学科。 生物化学是生命科学各专业的一门重要的基础课。课程的主要内容有: 生物大分子的结构和功能 (蛋白质、核酸、酶); 物质代谢及其调节 (糖代谢、脂类代谢、生物氧化、氨基

<p>酸代谢、核苷酸代谢，物质代谢的联系与调节)；基因信息的传递 (DNA 复制、RNA 转录、蛋白质翻译、基因表达调控，基因重组与基因工程)；细胞信息传递；常用分子生物学技术的原理及其应用等。教学内容注重生物化学基础和基本生物技术的原理。</p> <p>通过生物化学的学习，使学生系统地掌握生物化学的基础知识、基本理论和实验技术，引导学生从分子水平认识生命现象，了解近期生物化学的新进展，为学生进一步学习后续的生物相关课程奠定基础。</p>
课时安排： 课堂讲授 54 学时，实验 40 学时。课堂讲授每周 3 学时；实验每周 3 学时
先修课程： 16210010, 16210030
考核方式： 闭卷考试，成绩评定过程中，考试成绩占 50%，实验成绩占 30%，平时成绩占 20%，综合后的成绩为本门课的最终成绩。平时成绩由课堂出勤、平时作业、课堂表现等确定。
教材： 霍顿等主编，《基础生物化学》，北京：科学出版社，2012 年；2.周先碗，胡晓倩主编，《基础生物化学实验》，北京：高等教育出版社，2011 年
教师： 刘烈钊，吕俊

Unit code: 26210010 / 26210021
Unit name: Basic Biochemistry
Credits: 4.5
<p>Introduction</p> <p>The Biochemistry is an important foundational discipline of Life Science. It employs theories and means of Chemistry to study organisms' chemical composition, chemical changes of compositions occurring in life activity, and principles of regulation, so as to demonstrate the nature of life phenomena.</p> <p>The Basic Biochemistry is a compulsory curriculum and very important for every major in Life Science. The content includes structure and function of biological macromolecules, such as protein, nucleic acid and enzyme; substance metabolism and its regulation, for example, carbohydrate and lipid metabolism, biological oxidation, amino acid metabolism, nucleotide metabolism, the interrelationships and regulation of metabolic; transmission of genetic information, such as DNA replication, RNA transcription, protein translation, regulation of gene expression, gene recombination and genetic engineering; cell information transmission; principle and application of common-used molecular techniques. The teaching focuses on the basis knowledge and principles of biochemistry and biotechnology.</p> <p>This curriculum aims to enable students to systematically master the knowledge, theories and experiment skills of modern biochemistry, guide students to recognize life phenomena at the molecular level, understand recent progress in biochemistry, and lay a solid foundation for follow-up courses.</p>
Teaching Pattern: 3 hrs lectures weekly (18wks), 3 hrs practical weekly (13 wks)
Prerequisite: 16210010, 16210030
Course Assessment: Final Score=Usual Score*20%+Final Exam Score*50%+ lab work (30%); Usual Score is Determined by attendance rate, homework, and the completion of experiments; Final Exam: closed book exam
<p>Textbook:</p> <p>Horton H.R., et al. Principle of Biochemistry. Beijing: Science Press, 2012.</p> <p>Xianwan Zhou, Xiaoqian Hu. Principle of Biochemistry Experiment. Beijing: Higher</p>

Education Press, 2011
Course Director: Liezhao Liu, Jun Li

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课程代码: 24322740
课程名称: 工程制图
学分: 2.5
课程描述 工程制图是一门实践性较强的技术基础课,其主要目的是培养学生正确运用正投影法来分析、表述工程问题、绘制和阅读工程图样的能力和空间想象能力,同时、它又是学生后继课程和完成课程设计不可缺少的基础。
课时安排: 54
先修课程: 大学计算机基础 I
考核方式: 考试。闭卷考试+平时成绩。
课程成绩: 考试成绩占 50%, 平时成绩占 50%。
教材: 《现代工程制图》, 梁会珍主编, 机械工业出版社, 2013 年第 1 版
教师: 吴习宇

Unit code: 24322740
Unit name: Engineering Drawing
Credits: 2.5
Introduction Engineering Drawing is a practical technical basic course. The main purpose is to train students to correctly use the orthographic method to analyze and describe engineering problems, draw and read engineering drawings and spatial imagination. Meanwhile, it is also an indispensable foundation for students to learn the subsequently courses and complete the course design.
Teaching Pattern: 54
Prerequisite: Fundamentals of Computers I
Course Assessment: Final Score=Usual Score*50%+Final Exam Score*50%; Usual Score is Determined by attendance rate, class check and homework; Final Exam: closed book exam.
Textbook: Huizhen Liang, Modern engineering drawing. Beijing: Machinery industry press. 2013.
Course Director:

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课程代码: 24322750
课程名称: 包装工程学 CAD
学分: 2.5
课程描述 《包装工程学 CAD》是包装工程专业的一门专业课, 是该专业的选修课程之一。本课程通过教学使学生掌握利用计算机进行包装设计的基本技能, 该课程是从事包装设计应具备

的专业能力之一。
课时安排: 58 (理论 18 学时+实验 40 学时)
先修课程: 大学计算机基础 I、工程制图
考核方式: 考试。开卷考试+实验成绩+平时成绩。
课程成绩: 考试成绩占 50%，平时成绩占 50%。
教材: 《包装 CAD》，王冬梅主编，中国轻工业出版社，2011 年第 1 版
教师:

Unit code: 24322750
Unit name: Packaging Engineering CAD
Credits: 2.5
Introduction Packaging Engineering CAD is a professional course in packaging engineering and is one of the elective courses for the major. This course enables students to master the basic skills of using computer for packaging design. This course is one of the professional capabilities that should be possessed in packaging design.
Teaching Pattern: 18 hrs (theory)+40 hrs (experiment)
Prerequisite: Fundamentals of Computers I, Engineering Drawing
Course Assessment: Final Score=Usual Score*50%+Final Exam Score*50%; Usual Score is Determined by attendance rate, homework, and the completion of experiments; Final Exam: opened book exam.
Textbook: Dongmei Wang, Packaing CAD. Beijing: China light industry press. 2011.
Course Director:

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课程代码: 24322780
课程名称: 高分子基础
学分: 2.5
课程描述 高分子材料以其优良的加工和使用性能，在包装中的应用日趋广泛。为使包装工程专业的学生对高分子材料的基本概念和性能有所了解，从而更好地应用高分子包装材料，将《高分子基础》设置为包装工程专业的一门专业必修课。根据专业设置和知识体系要求，本课程主要介绍高分子和塑料的基本概念、合成方法、性质和常用的成型与加工方法。在此基础上，对在包装中常用的高分子和塑料的结构、性能、成型加工方法和应用进行详细的讨论，为学生今后学习《包装材料学》、《包装测试技术》以及在工作中灵活选择和应用高分子包装材料打下良好的理论基础。
课时安排: 49 (理论 36 学时+实验 13 学时)
先修课程: 包装应用力学、包装设计学 CAD
考核方式: 闭卷考试，成绩评定过程中，考试成绩占 40%，实验成绩占 30%，平时成绩占 30%，综合后的成绩为本门课的最终成绩。平时成绩由课堂出勤、平时作业、课堂表现等确定。
教材: 《高分子简明教程》，董炎明主编，科学出版社，2014 年第 2 版

教师：徐丹

Unit code: 24322780

Unit name: Polymer Base

Credits: 2.5

Introduction

<p>Polymer have been widely used in packang, main due to their excellent processing and use performance. Polymer is one of the professional compulsory for packaging engineering. The aim of this course is to make the students to understand the basic concepts and properties of polymer materials, as well as how to apply the normal polymer properly. According to the professional setting and knowledge system requirements, this course mainly introduces the basic concepts, synthetic methods, properties of polymers and plastics, and commonly used molding and processing methods. On this basis, the structure, properties, molding processing methods and applications of polymers and plastics commonly used in packaging are discussed in detail. This course will help students to learn the subsequently course better, like Packaging Materials and Packaging Testing and Technology. It also help students to selecting and applying polymer packaging materials.</p>

Teaching Pattern: 36 hrs (theory)+13 hrs (experiment)
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Prerequisite: Packaging Applied Mechanics, Packaging Design CAD
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Course Assessment: Final Score=Usual Score*30%+Final Exam Score*40%+ lab work (30%); Usual Score is Determined by attendance rate, homework, and the completion of experiments; Final Exam: closed book exam.
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Textbook:

Yanming Dong, Polymer Concise Tutorial. Beijing: Science press. 2014.

Course Director: Dan Xu

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课程代码：24322837

课程名称：包装设计学 CAD

学分：2

课程描述

<p>本课程是包装设计专业的选修课程，Photoshop, Illustrator 两个软件分别是平面设计软件中图像处理与图形编辑的重要软件。Photoshop 是位图图像软件的代表，Illustrator 属于矢量软件代表。通过对这两个软件基础知识、工具综合应用的学习，让学生能运用软件知识把包装表现出来，不断创作出优秀的设计作品。</p>

课时安排: 45

先修课程:

考核方式: 考查。期末作品成绩+平时成绩+上机成绩+考勤

课程成绩: 期末作品成绩 30%，平时成绩 40%，实验成绩 30%

教材: 《计算机"十二五"规划教材·案例教程系列:中文版 Photoshop+Illustrator 平面设计案例教程(CS6)》，董慧、谷冰、吕小刚著，江苏大学出版社，2014 年第 1 版

教师：黎盛

Unit code: 24322837
Unit name: Packaging Design CAD
Credits: 2
Introduction <p>This course is an optional course for packaging engineering major. Photoshop and Illustrator are two important softwares for image processing and graphic editing in graphic design software. Photoshop is a representative of bitmap image software, and Illustrator is a vector software representative. Through the study of the application of these two software basic knowledge and tools, students can use software knowledge to express the packaging and continuously create excellent design works.</p>
Teaching Pattern: 45
Prerequisite:
Course Assessment: Final Score=Usual Score*30%+Final Exam Score*40%+ lab work (30%); Usual Score is Determined by attendance rate, homework, and the completion of experiments; Final Exam: packaging design.
Textbook: Hui Dong, Bing Gu, Xiaogang Lv, Photoshop+Illustrator Graphic Design Case Tutorial. Jiangsu: Jiangsu University press. 2014.
Course Director:

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课程代码: 24322967
课程名称: 市场营销学
学分: 2
课程描述 <p>在现代市场经济条件下, 市场营销学原理不仅广泛应用于企业、政府和非营利组织, 而且逐渐应用于微观、中观和宏观三个层次, 涉及社会经济生活的各个方面。市场营销学不仅是财经类、管理类各专业的必修课, 而且还是人文、哲学、社会科学等专业的重要课程。在工商管理类课程体系中, 市场营销学是一门十分重要的专业基础课。</p> <p>通过本课程的学习, 使学生掌握市场营销学的系统理论, 包括企业的市场营销环境、营销战略与市场营销组合、消费者购买行为分析、产品定价与促销等。同时结合国际市场营销理论和实践, 研究国内企业改进市场策略, 增强市场竞争的战略和方法, 提高企业经营管理水平。</p>
课时安排: 36
先修课程:
考核方式: 期末论文+平时成绩
课程成绩: 平时成绩占 55%, 期末论文成绩占 45%
教材: 《市场营销学》, 梁文玲主编, 中国人民大学出版社, 2010 年第二版
教师:

Unit code: 24322967
Unit name: Marketing
Credits: 2

Introduction

Under the conditions of modern market economy, the principle of marketing science is not only widely used in enterprises, governments, and non-profit organizations, but also gradually applied to the micro, meso, and macro levels, involving all aspects of social and economic life. Marketing is not only a required course for finance and management majors, but also an important course for humanities, philosophy, and social sciences. In the business administration curriculum system, marketing is a very important professional basic course.

Through the study of this course, students can master the system theory of marketing, including the marketing environment of the company, the combination of marketing strategy and marketing, the analysis of consumer purchasing behavior, product pricing and promotion. Meanwhile, combined with the theory and practice of international marketing, we will study strategies and methods for domestic enterprises to improve market strategies, enhance market competition, and improve the level of business management.

Teaching Pattern: 36

Prerequisite:

Course Assessment: Final Score=Usual Score*55%+Final Exam Score*45%; Usual Score is Determined by attendance rate, class check and homework; Final Exam: closed book exam.

Textbook:

Wenling Liang, Marketing. Beijing: China Renmin University press. 2010.

Course Director:

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课程代码: 24322838
课程名称: 包装应用力学
学分: 2.5
课程描述 《包装应用力学》是包装工程专业的核心课程。为包装结构设计、运输包装奠定力学理论基础,为寻求科学的包装防护理论、研究合理的物流环节及适用的包装技术提供理论依据。主要研究内容是以包装件的物流过程为背景,应用力学原理,探求缓冲包装的内在规律,解释和处理缓冲包装设计中的实际问题。主要讲授包装静力学知识、包装振动和冲击理论、流体力学在包装中应用、缓冲防护中的力学问题、常用包装件破损的力学分析及包装力学实验。
课时安排: 49 (36 理论+13 实验)
先修课程: 大学物理III, 高等数学 II
考核方式: 闭卷考试。平时成绩+实验成绩+期末考试 (闭卷考试)
课程成绩: 平时成绩 20%+课程实验 30%+期末考试 50%。
教材: 《包装应用力学》(普通高等教育包装工程本科专业规划教材), 高德主编, 中国轻工业出版社, 2015 年 7 月第 1 版第 2 次印刷
教师: 任丹

Unit code: 24322838
Unit name: Packaging Applied Mechanics
Credits: 2.5
Introduction Packaging Applied Mechanics is the core curriculum of packaging engineering. It lays the

<p>foundation of mechanical theory for the design of packaging structures and transportation packaging. It also provides theoretical basis for seeking scientific packaging protection theory, researching reasonable logistics links and applicable packaging technologies. The main research content is based on the logistics process of the package, applying the principle of mechanics, exploring the inherent rules of the buffer packaging, and interpreting and handling the practical problems in the buffer packaging design. It mainly focuses on the statics knowledge of packaging, vibration and impact theory of packaging, the application of fluid mechanics in packaging, mechanical problems in buffer protection, mechanical analysis of common package damage, and packaging mechanics experiments.</p>
<p>Teaching Pattern: 36 hrs (theory)+18 hrs (experiment)</p>
<p>Prerequisite: College Physics III, Higher Mathematics II</p>
<p>Course Assessment: Final Score=Usual Score*20%+Final Exam Score*50%+ lab work (30%); Usual Score is Determined by attendance rate, homework, and the completion of experiments; Final Exam: closed final exam.</p>
<p>Textbook: De Gao, Packaging Applied Mechanics. Beijing: China light industry press. 2015.</p>
<p>Course Director: Dan Ren</p>

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<p>课程代码: 24322895</p>
<p>课程名称: 设计色彩与色度学</p>
<p>学分: 3.5</p>
<p>课程描述 设计色彩与色度学课程是包装工程专业重要的专业发展课程,主要介绍设计色彩和工程色彩的基本规律和理论,为专业奠定色彩基本理论知识。色度学是研究人类颜色视觉规律、颜色测量的理论和技术的科学,课程系统地介绍了颜色视觉的基本规律和颜色测量的方法、颜色视觉的生理学和心理学基本知识、孟塞尔颜色系统、CIE 色度学系统和测色方法、测色原理和测色的仪器及其在包装领域彩色复制方面的应用;设计色彩系统介绍了色彩的感受规律、色彩设计的基本规律及色彩在营销、包装设计、工业设计、UI 设计方面的应用及规律。通过课程学习,使学生能将设计色彩与工程色彩有机地结合,在应用设计色彩同时能以科学的方法辨别颜色、标定颜色、测量颜色。</p>
<p>课时安排: 72 (理论 45 学时、实验实践 27 学时)</p>
<p>先修课程: 包装设计学 CAD</p>
<p>考核方式: 考查。设计作业考试+平时成绩</p>
<p>课程成绩: 课程设计作业成绩占考核成绩的 60%, 平时成绩占 40%</p>
<p>教材: 《包装色彩学》(普通高等教育包装工程本科专业规划教材), 吕新广主编, 印刷工业出版社, 2011 年 6 月第 3 版 《设计色彩》, 张雄 高燕著, 重庆大学出版社, 2014 年第 1 版</p>
<p>教师: 徐毅</p>

<p>Unit code: 24322895</p>
<p>Unit name: Design Color and Colorimetry</p>
<p>Credits: 3.5</p>
<p>Introduction</p>

<p>The course of designing color and colorimetry is an important professional development course for packaging engineering. It mainly introduces the basic laws and theories of design colors and engineering colors, and lays the foundation for color theory. Colorimetry is the science of studying human color vision law and color measurement theory and technology. This part systematically introduces the basic laws of color vision and color measurement methods, the basic knowledge of color vision physiology and psychology, Munsell color system, CIE colorimetry system and color measurement method, color measurement principle and color measurement instrument and its application in the field of color reproduction in the packaging field. Design color system introduces the law of color perception, the basic rules of color design and color in marketing, packaging design, industrial design, UI design applications and laws. Through the course study, students can organically combine design colors and engineering colors. In the application of design colors, scientific methods can be used to identify colors, calibrate colors, and measure colors.</p>
<p>Teaching Pattern: 45 hrs (theory)+27 hrs (experiment)</p>
<p>Prerequisite: Packaging Design CAD</p>
<p>Course Assessment: Final Score=Usual Score*40%+Final Exam Score*60%; Usual Score is Determined by attendance rate, class check and homework; Final Exam: final class design.</p>
<p>Textbook: Xinguang Lv, Packaging Color. Beijing: Printing industry press. 2011. Xiong Zhang, Yan Gao, Design Color. Chongqing: Chongqing University press. 2014.</p>
<p>Course Director: Yi Xu</p>

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<p>课程代码: 24322894</p>
<p>课程名称: 设计基础</p>
<p>学分: 3</p>
<p>课程描述 《设计基础》是一门讲授设计构成方法的学科基础课程。课程分为的三大部分,即绪论、造型设计的基础形态和造型设计的表现技法。用教学加实训的方式传授给学生造型的原理、方法和手段。目的在于通过对设计中造型元素的理解,训练学生的创造性思维。在包装工程专业的本科学习中具有重要的指导意义。</p>
<p>课时安排: 63</p>
<p>先修课程: 包装设计学 CAD</p>
<p>考核方式: 考查。期末设计+平时成绩(课堂表现、课后作业、考勤)</p>
<p>课程成绩: 期末设计 30%, 平时成绩 70%</p>
<p>教材: 《造型设计基础》, 张福昌、蒋兰主编, 合肥工业大学出版社, 2011</p>
<p>教师: 刘星</p>

<p>Unit code: 24322894</p>
<p>Unit name: Design Fundamentals</p>
<p>Credits: 3</p>
<p>Introduction Design Fundamentals is a discipline-based course that teaches the methods of design composition. The curriculum is divided into three parts, namely the introduction, the basic form of</p>

the design, and the performance techniques of the design. The principles and methods are taught in a way of teaching and training. The purpose is to train students' creative thinking through the understanding of the modeling elements in the design. It has important guiding significance in the undergraduate study of packaging engineering.
Teaching Pattern: 63
Prerequisite: Packaging Design CAD
Course Assessment: Final Score=Usual Score*70%+Final Exam Score*30%; Usual Score is Determined by attendance rate, class check and homework; Final Exam: final class design.
Textbook: Fuchang Zhang, Lan Jiang, Design Basis. Anhui: Hefei University of Technology press. 2011.
Course Director: Xing Liu

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课程代码: 24322954
课程名称: 电子商务
学分: 2.5
课程描述 《电子商务》是为食品科学学院包装工程专业的学生提供的专业选修课程。随着电子商务的飞速发展,对于专业化人才的需求更加迫切。本课程将系统介绍网店运营各方面的知识。包括网店美工、视觉营销、网店推广等基础知识。
课时安排: 54
先修课程:
考核方式: 考查。期末设计+平时成绩(课堂表现、课后作业、考勤) 课程成绩: 期末作品设计 40%, 平时成绩 60%
教材: 《电商精英系列教程—网店推广》, 淘宝大学主编, 电子工业出版社, 2014 年第 14 版、《电商精英系列教程—网店视觉营销》, 淘宝大学主编, 电子工业出版社, 2014 年第 4 版、《电商精英系列教程—网店美工》, 淘宝大学主编, 电子工业出版社, 2014 年第 12 版
教师: 刘星

Unit code: 24322954
Unit name: E-commerce
Credits: 2.5
Introduction E-Commerce is a professional elective course for students of packaging engineering at the School of Food Science. With the rapid development of e-commerce, the demand for specialized personnel is even more urgent. This course will systematically introduce all aspects of online shop operations. Including online shop art, visual marketing, shop promotion and other basic knowledge.
Teaching Pattern: 54
Prerequisite:
Course Assessment: Final Score=Usual Score*60%+Final Exam Score*40%; Usual Score is Determined by attendance rate, class check and homework; Final Exam: final class design.

<p>Textbook:</p> <p>Taobao University, E-commerce Elite Series-Online Shop Promotion. Beijing: Electronic industry press. 2014.</p> <p>Taobao University, E-commerce elite series tutorial-online visual marketing. Beijing: Electronic industry press. 2014.</p> <p>Taobao University, E-commerce Elite Series-Online Shop Art. Beijing: Electronic industry press. 2014.</p>
<p>Course Director: Xing Liu</p>

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<p>课程代码: 24312793</p>
<p>课程名称: 包装材料学</p>
<p>学分: 3</p>
<p>课程描述</p> <p>包装材料学是研究包装材料结构、性能及应用的科学,是包装工程专业教学必修的专业基础课程之一。课程基本目的在于通过对现代包装材料的四大支柱材料(纸、塑料、玻璃、金属)和复合材料的介绍,使学生比较系统地掌握包装材料的种类、性能、特点及应用,熟悉必要的材料和制品的加工工艺,以便能准确、合理地选用包装材料进行产品包装设计。通过本课程的学习,为包装工程的系统研究打下良好的基础。</p>
<p>课时安排: 63 (理论 36 学时+实验 27 学时)</p>
<p>先修课程: 普通化学、有机化学 I、分析化学</p>
<p>考核方式:</p> <p>闭卷考试,成绩评定过程中,考试成绩占 40%,实验成绩占 30%,平时成绩占 30%,综合后的成绩为本门课的最终成绩。平时成绩由课堂出勤、平时作业、课堂表现等确定。</p>
<p>教材:《包装材料学》,王建清主编,中国轻工业出版社,2009年第1版</p>
<p>教师: 徐丹</p>

<p>Unit code: 24312793</p>
<p>Unit name: Packaging Materials</p>
<p>Credits: 3</p>
<p>Introduction</p> <p>Packaging materials science is the science that studies the structure, performance and application of packaging materials. It is one of the professional basic courses required for the teaching of packaging engineering. The basic purpose of the course is to introduce the four pillar materials (paper, plastic, glass, metal) and composite materials of modern packaging materials so that students can systematically grasp the types, properties, characteristics, and applications of packaging materials and become familiar with the necessary materials. And the processing technology of the products so that the packaging materials can be accurately and reasonably selected for product packaging design. Through the study of this course, it lays a good foundation for systematic research of packaging engineering.</p>
<p>Teaching Pattern: 36 hrs (theory)+27 hrs (experiment)</p>
<p>Prerequisite: General Chemistry, Organic Chemistry I, Analytical Chemistry</p>
<p>Course Assessment: Final Score=Usual Score*30%+Final Exam Score*40%+ lab work (30%); Usual Score is Determined by attendance rate, homework, and the completion of experiments;</p>

Final Exam: closed final exam.
Textbook: Jianqing Wang, Packaging Materials. Beijing: China light industry press. 2009.
Course Director: Dan Xu

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课程代码: 24312959
课程名称: 包装工艺学
学分: 2
课程描述 包装工艺学是包装工程专业本科教学的核心课程,是研究包装过程中所涉及到的包装技术的原理、工艺、设备的总称。包装工艺学研究包装工艺过程中具有共同性的规律,它是在总结包装生产实践和科学研究成果的基础上发展起来的一门专业学科。通过本课程的学习,掌握产品保质包装的基本理论,掌握充填包装、裹包两大类通用包装工艺的基本原理、操作技术和工艺要领,熟悉掌握防潮包装、活性包装等功能性保质包装的相关理论与方法,了解国内外包装技术的最新动态,了解包装工艺对产品包装质量的影响,熟悉制订包装工艺规程的基本要求和过程,具有制订产品包装工艺和分析解决包装生产问题的基本能力,同时也为包装机械的设计开发打下基础。
课时安排: 36
先修课程:
考核方式: 考试。闭卷考试+平时成绩(课堂考勤、课后作业、课堂讨论)
课程成绩: 平时成绩×50%(包含课堂考勤、课后作业、课堂讨论)+期末考核(闭卷考试)成绩×50%。
教材: 《包装工艺学》(普通高等教育“十一五”国家级规划教材),潘松年主编,印刷工业出版社,2011年7月第4版
教师: 徐毅

Unit code: 24312959
Unit name: Packaging Technology
Credits: 2
Introduction Packaging technology is the core curriculum for undergraduate teaching in packaging engineering, and it is the general term for the principles, processes and equipment involved in the packaging technology and process. It is a professional discipline developed on the basis of summarizing packaging production practices and scientific research achievements. Through the study of this course, we will master the basic theory of product quality packaging, grasp the basic principles, operation techniques, and process essentials of the two general packaging processes of filling and wrapping, and familiarize ourselves with the functional and durable packaging such as moisture-proof packaging and active packaging. Theory and methods to understand the latest developments in packaging technology all over the world, to understand the impact of packaging technology on product packaging quality, to be familiar with the basic requirements and technical processes for the formulation of packaging process regulations, and to develop the basic capabilities of product packaging technology and analysis to solve packaging production problems. It also lays the foundation for the design and development of packaging machinery.

Teaching Pattern: 36
Prerequisite:
Course Assessment: Final Score=Usual Score*50%+Final Exam Score*50%; Usual Score is Determined by attendance rate, class check and homework; Final Exam: closed final exam.
Textbook: Songnian Pan, Packaging Technology. Beijing: Printing industry press. 2011.
Course Director: Yi Xu

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课程代码: 24312795
课程名称: 包装结构与造型设计
学分: 2.5
课程描述 《包装结构与造型设计》是一门综合性和专业性较强的包装工程专业主干课程之一，它主要涵盖的内容是结合材料、工艺，对产品包装内外结构和外观造型的设计表达。 因各包装材料性质的巨大差异导致不同材料的结构形式差异明显，本课程按照包装材料的分类，将内容分为概论、纸包装结构与造型设计、塑料包装结构与造型设计、金属包装结构设计、玻璃包装结构与造型设计、陶瓷包装结构与造型设计六个篇，每篇包含若干章节，以不同的包装材料各为模块，构成一个完整的教学体系。内容讲授注重以包装材料与工艺为基础，以结构成型为目的，开拓学生包装结构与造型的设计思维、加强学生设计分析能力与实践操作能力，帮助学生掌握包装结构和造型设计的基础原理和基本技巧，具备从事包装设计的基本设计能力和实践操作能力。
课时安排: 54（理论 27 学时，实验 27 学时）
先修课程:
考核方式: 考试。闭卷考试+实验成绩+平时成绩。
课程成绩: 期末考试50%，平时成绩50%。
教材: 《包装设计》，孙诚主编，中国轻工业出版社，2013 年第 3 版
教师: 吴习宇

Unit code: 24312795
Unit name: Packaging Structure and Modeling Design
Credits: 2.5
Introduction Packaging Structure and Modeling Design is one of the comprehensive and professional packaging engineering major courses. It mainly covers the design of materials and processes, and the design of the internal and external structure and appearance of the product packaging. Due to the significant differences in the nature of the packaging materials, the differences in the structural forms of different materials lead to significant differences. According to the classification of packaging materials, this course will be divided into six parts. They were an overview, paper packaging structure and shape design, plastic packaging structure and shape design, metal packaging structure design, glass packaging structure and modeling design, ceramic packaging structure and modeling design. And each containing a number of chapters, with different packaging materials for each module, constitute a complete teaching system. The content teaching emphasizes the use of packaging materials and processes as a foundation, and aims to

shape the structure, explores the design thinking of packaging structure and modeling, strengthens students' design analysis and practical operation skills, and helps students master the basic principles and basics of packaging structure and modeling design.
Teaching Pattern: 27 hrs (theory)+27 hrs (experiment)
Prerequisite:
Course Assessment: Final Score=Usual Score*50%+Final Exam Score*50%; Usual Score is Determined by attendance rate, homework, and the completion of experiments; Final Exam: closed final exam.
Textbook: Cheng Sun, Packaging Structure Design. Beijing: China light industry press. 2013.
Course Director: Xiyu Wu

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课程代码: 24312794
课程名称: 包装测试技术
学分: 2.5
课程描述 《包装测试技术》是一门专业必修课,为包装材料、工艺、结构等设计提供评测方法及分析,判断最终包装是否合格或优劣,是培养过程中一门重要的课程。课程注意各测试原理及方法的准确传授,为设计及评测包装打下基础。同时注意引导学生比较各种测试方法的差异,启发寻找新的测试方法的可能,注意培养学生独立思考及质疑精神。
课时安排: 54
先修课程: 包装材料学
考核方式: 考查。平时成绩+课程实验+课程论文
课程成绩: 平时成绩 20%, 课程实验 30%, 课程论文 50%
教材: 《包装测试技术》, 郭彦峰主编, 化学工业出版社, 2012 年第 2 版
教师: 任丹

Unit code: 24312794
Unit name: Packaging Testing and Technology
Credits: 2.5
Introduction Packaging Testing and Technology is a professional compulsory course. It provides evaluation methods and analysis for packaging materials, processes, and structures, and determines whether the final packaging is qualified to be good or bad. It is an important course in the training process. The course pays attention to the accurate teaching of the test principles and methods, laying the foundation for design and evaluation packaging. At the same time pay attention to guide students to compare the differences in various test methods, inspire the possibility of finding new test methods, pay attention to train students to think independently.
Teaching Pattern: 27 hrs (theory)+27 hrs (experiment)
Prerequisite: Packaging Materials
Course Assessment: Final Score=Usual Score*20%+Final Exam Score*50%+Lab Score*30%; Usual Score is Determined by attendance rate, homework, and the completion of experiments;

Final Exam: course thesis.
Textbook: Yanfeng Guo, Packaging Testing and Technology. Beijing: Chemical industry press. 2012.
Course Director: Dan Ren

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课程代码: 24312810
课程名称: 设计方法学
学分: 2.5
课程描述 《设计方法学》是一门讲授设计方法论的学科基础课程。课程的目的在于训练学生的创造性思维；传授学生科学的、系统的设计方法，并且探索在艺术设计中创造性思维形成的规律和方法以及如何运用到包装设计中并作出合理的设计评价。在设计专业的本科学习中具有重要的指导意义。
课时安排: 49
先修课程: 包装设计学 CAD
考核方式: 考查。期末设计+平时成绩（课堂表现、课后作业、考勤）
课程成绩: 期末设计 70%，平时成绩 30%。
教材: 《设计方法学》，郑建启,李翔主编，清华大学出版社，2006 年第 1 版
教师: 刘星

Unit code: 24312810
Unit name: Design Methodology
Credits: 2.5
Introduction Design Methodology is a discipline-based course that teaches design methodology. The purpose of the course is to train students' creative thinking; teach students scientific and systematic design methods, and explore the rules and methods of creative thinking in art design, how to apply them to packaging design, and make reasonable design evaluations. It has important guiding significance in the design professional undergraduate study.
Teaching Pattern: 49
Prerequisite: Packaging Design CAD
Course Assessment: Final Score=Usual Score*30%+Final Exam Score*70%; Usual Score is Determined by attendance rate, class check and homework; Final Exam: final class design.
Textbook: Jianqi Zheng, Xiang Li, Design Methodology. Beijing: Tsinghua University press. 2006.
Course Director: Xing Liu

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课程代码: 24322835
课程名称: 包装机械
学分: 2.5
课程描述

<p>本课程是包装工程专业的核心课程。课程按照现代包装机械的体系和特点，以包装机械的组成、工作原理以及典型包装执行机构为授课重点，主要讲述常用典型包装机械的组成、工作原理、传动系统、控制系统和包装执行机构等。通过本课程学习，要求学生了解包装机械的类型、结构、工作原理、性能及部分机械的参数确定和选择，具备一定的机械设备选型和使用的能力。</p>
<p>课时安排: 49 (理论 36 学时、实验实践 13 学时)</p>
<p>先修课程: 工程制图、包装应用力学</p>
<p>考核方式: 考试。闭卷考试 + 平时成绩 (课堂考勤、课后作业、课堂讨论) + 实验成绩</p>
<p>课程成绩: 平时成绩×20% (包含课堂考勤、课后作业、课堂讨论)，期末考核 (闭卷考试) 成绩×50%，实验成绩×30%</p>
<p>教材: 《包装机械概论》 (普通高等教育包装统编教材)，孙智慧主编，印刷工业出版社，2012 年 7 月第 3 版</p>
<p>教师: 徐毅</p>

<p>Unit code: 24322835</p>
<p>Unit name: Packaging Machinery</p>
<p>Credits: 2.5</p>
<p>Introduction</p> <p>This course is one of the main course of packaging engineering. In accordance with the system and characteristics of modern packaging machinery, the curriculum focuses on the composition, working principles, and typical packaging actuators of packaging machinery. It mainly describes the composition, working principle, transmission system, control system, and packaging actuators of commonly used typical packaging machinery. Through this course, students are required to understand the type, structure, working principle, performance of the packaging machinery, as well as the determination and selection of certain mechanical parameters, and have the ability to select and use mechanical equipment.</p>
<p>Teaching Pattern: 36 hrs (theory)+13 hrs (experiment)</p>
<p>Prerequisite: Engineering Drawing, Packaging Applied Mechanics</p>
<p>Course Assessment: Final Score=Usual Score*20%+Final Exam Score*50%+Lab Score*30%; Usual Score is Determined by attendance rate, homework, and the completion of experiments; Final Exam: closed final exam.</p>
<p>Textbook:</p> <p>Zhihui Sun, Introduction to Packaging Machinery. Beijing: Printing industry press. 2012.</p>
<p>Course Director: Yi Xu</p>

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<p>课程代码: 24322865</p>
<p>课程名称: 广告与传媒</p>
<p>学分: 2</p>
<p>课程描述</p> <p>本课程是包装工程专业的专业选修课。通过该课程的学习，认识广告与传媒的存在和作用，使学生了解广告的定义分类与历史的发展过程，掌握广告的基本理论知识，熟悉广告与传媒工作流程，能够更进一步掌握广告的基础意识、创意水平和设计能力。通过本课程的学习，为包装工程的设计课程打下良好的基础。</p>

课时安排: 36
先修课程: 包装设计学 CAD, 设计色彩与色度学
考核方式: 考查。期末考核(设计作业)+平时成绩(课堂表现、课后作业、课程设计)
课程成绩: 平时成绩×50%(包含考勤、平时上课表现、课程设计完成情况), 期末考核(设计作业)成绩×50%
教材: 《广告学原理》, 陈培爱著, 复旦大学出版社, 2003年10月第二版
教师: 李一知

Unit code: 24322865
Unit name: Advertising and Media
Credits: 2
Introduction This course is a professional elective course for packaging engineering. Through the study of this course, we will understand the existence and role of advertising and media, enable students to understand the definition and classification of advertising, and develop the history, grasp the basic theoretical knowledge of advertising, and be familiar with the workflow of advertising and media. Therefore, we can further grasp the basic awareness of advertising, creative level and design ability. Through the study of this course, it lays a good foundation for the design course of packaging engineering.
Teaching Pattern: 36
Prerequisite: Packaging Design CAD, Design Color and Colorimetry
Course Assessment: Final Score=Usual Score*50%+Final Exam Score*50%; Usual Score is Determined by attendance rate, class check and homework; Final Exam: final class design.
Textbook: Peiai Chen, Advertising theory. Shanghai: Fudan University press. 2003.
Course Director: Yizhi Li

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课程代码: 24322939
课程名称: 消费心理学
学分: 2
课程描述 本课程是包装工程专业的专业选修课。系统地研究消费者行为, 普通心理学在市场营销活动中的具体运用。消费心理学的研究以普通心理学、社会学、文化人类学、经济学、市场营销学等不同领域的学说和概念为基础, 其研究对象是消费者在购买、消费商品或服务过程中的心理现象及其发展变化规律, 以及由此而产生的购买行为的特征。研究影响消费者购买行为的内在心理因素, 消费者个性心理活动过程和个性心理特征; 分析了消费者群体、商品品牌、价格、营销场景、营销服务、营销信息传播等外部因素对消费者心理的影响。同时, 探讨了当代中国社会消费心理和消费行为的变化趋势, 居民消费的地区差异、城乡差异、消费误区、消费者教育等现实问题。随着人们生活水平的提高和社会的进步, 消费心理学的研究对于经营者开展商品的市场营销活动的作用会越来越重要。在品牌策划与包装设计中产生重要的影响。通过本课程的学习让学生在品牌设计和策划、包装设计中有更加全面、具体的分析。
课时安排: 36

先修课程: 市场营销学、设计色彩与色度学
考核方式: 考查。论文+平时成绩
课程成绩: 论文成绩占考核成绩 50%，平时成绩占考核成绩 50%
教材: 《消费心理学(第 2 版)》 李晓霞、刘剑著，清华大学出版社，2010 年第 2 版
教师: 黎盛

Unit code: 24322939
Unit name: Consumer Psychology
Credits: 2
<p>Introduction</p> <p>This course is a professional elective course for packaging engineering. A systematic study of consumer behavior and the general use of general psychology in marketing activities. The study of consumer psychology is based on theories and concepts in different fields such as general psychology, sociology, cultural anthropology, economics, and marketing. The research object is the psychology of consumers in the process of purchasing or consuming goods or services. Phenomenon and the law of its development and change, and the resulting purchase behavior. Study the intrinsic psychological factors affecting consumers' purchasing behavior, the process of individual personality's psychological activity and personality's psychological characteristics; analyze the external factors such as consumer groups, product brands, prices, marketing scenarios, marketing services, and marketing information dissemination to consumer psychology influences. At the same time, it explores the changing trends of social consumer psychology and consumer behavior in contemporary China, regional differences in resident consumption, urban-rural differences, consumer misunderstandings, and consumer education. With the improvement of people's living standards and the progress of society, the study of consumer psychology will become more and more important for the operators to carry out the marketing activities of commodities. In the brand planning and packaging design has an important impact. Through the study of this course, students can have more comprehensive and specific analysis in brand design, planning and packaging design.</p>
Teaching Pattern: 36
Prerequisite: Marketing, Design Color and Colorimetry
Course Assessment: Final Score=Usual Score*50%+Final Exam Score*50%; Usual Score is Determined by attendance rate, class check and homework; Final Exam: course thesis.
<p>Textbook:</p> <p>Xiaoxia Li, Jian Liu, Consumer Psychology. Beijing: Tsinghua University press. 2010.</p>
Course Director: Sheng Li

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课程代码: 24312945
课程名称: 运输包装学
学分: 3
<p>课程描述</p> <p>本课程是包装工程专业的一门理论与应用性较强的专业主干核心课程，是包装工程学科的一个重要分支。本课程围绕物流中产品防护设计主题，系统地介绍了运输包装系统的分析、设计和评价方法，包括包装动力学基础理论、产品流通环境、脆值及其评价方法、缓冲包装</p>

材料、缓冲包装设计、运输包装系统设计和运输包装试验评价等内容。通过该课程的教学，学生应达到下列要求：掌握包装动力学基本理论；能分析在流通过程中引起包装件损坏的各种因素；熟悉缓冲包装材料及各种运输包装容器和集装器具的特点和应用；熟悉运输包装试验方法，能结合上述理论进行合理的缓冲包装以及运输包装系统的设计、检测与评价。
课时安排： 63（理论 36 学时、实验实践 27 学时）
先修课程： 包装测试技术、包装应用力学、包装机械、包装设计学 CAD、大学物理III
考核方式： 考试。闭卷考试 + 平时成绩（课堂考勤、课后作业、课堂讨论）+实验成绩 课程成绩： 平时成绩×20%（包含课堂考勤、课后作业、课堂讨论），期末考核（闭卷考试）成绩×50%，实验成绩×30%
教材： 《物流运输包装设计》，彭国勋主编，印刷工业出版社，2012年1月第2版
教师： 周思远

Unit code: 24312945
Unit name: Transportation Packaging
Credits: 3
Introduction The course is a core course for packaging engineering. In order to better protect the commodities during transportation, the course systematically introduces the methods needed for analysis, design and evaluations, including the basics of packaging dynamics, packaging environment, packaging buffering material/design and etc. Through the learning, the students should understand the basics of packaging dynamics, be able to analyze different factors that could cause packaging damage during transportation, be familiar with the properties of different packaging materials/containers and be able to design and evaluate the packaging system.
Teaching Pattern: 36 hrs (theory)+27 hrs (experiment)
Prerequisite : Packaging Testing and Technology, Packaging Applied Mechanics, Packaging Machinery, Packaging Design CAD, College Physics III
Course Assessment: Final Score=Usual Score*20%+Final Exam Score*50%+ lab work (30%); Usual Score is Determined by attendance rate, homework, and the completion of experiments; Final Exam: closed book exam
Textbook: Guoxun Peng. Design of transportation packaging. Printing Industry Press, 2012.
Course Director: Siyuan Zhou

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课程代码： 24312798
课程名称： 包装印刷技术
学分： 3
课程描述 本课程是包装工程本科专业的核心专业课程。课程主要介绍包装印刷技术的基本原理、印刷工艺和设备，包装材料、包装制品的主要印刷方式和应用特点。通过本课程的学习，要求学生能根据具体包装设计的要求，根据包装材料和包装制品的特点及要求，提出或选用合适的印刷材料，正确选择包装印刷方法、合理制订或设计印刷工艺，进行产品包装印刷，具备分析和解决包装印刷过程中出现的技术问题，进行印刷品质量检测与控制，评定包装印刷品

质量的能力。
课时安排: 63 (理论 36 学时, 实践 27 学时)
先修课程: 设计色彩与色度学、包装设计学 CAD、包装结构与造型设计、包装材料学、设计方法学
考核方式: 考试。闭卷考试 + 平时成绩 (课堂考勤、课后作业、课堂讨论)
课程成绩: 平时成绩×40% (包含课堂考勤、课后作业、课堂讨论)+期末考核 (闭卷考试)成绩×60%
教材: 《包装印刷技术》, 许文才著, 中国轻工业出版社, 2011 年
教师: 徐毅

Unit code: 24312798
Unit name: Packaging Printing Technology
Credits: 3
Introduction This course is a core course for packaging engineering. It mainly introduces the principles of packaging printing technology, printing equipment, packaging material and the properties of the products. Through the learning of the course, the students should be able to properly select the printing material, printing technique and be able to design, analyze, control and evaluate the whole process and the final products.
Teaching Pattern: 36 hrs (theory)+27 hrs (experiment)
Prerequisite: Design Color and Colorimetry, Packaging Design CAD, Packaging Structure and Modeling Design, Packaging Materials, Design Methodology
Course Assessment: Final Score=Usual Score*40%+Final Exam Score*60%; Usual Score is Determined by attendance rate, homework, and the completion of experiments; Final Exam: closed book exam
Textbook: Wencai Xu. Packaging printing technology. China light industry press, 2011.
Course Director: Yi Xu

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课程代码: 24312796
课程名称: 包装系统工程
学分: 2.5
课程描述 《包装系统工程》是一门专业必修课, 在整个培养体系中起到将各分散的知识点系统、有机综合起来的作用, 是培养过程一门重要的课程。注重启发学生独立思考, 采用案例教学, 课堂讨论为主, 选择一种产品优质但销路不佳的市场真实产品, 有创新地系统完成其包装设计, 意图推进该产品的销售。课程的任务是要构建学生进行系统包装设计的能力, 能真正展现出包装的核心价值。
课时安排: 54
先修课程: 包装材料学、包装工艺学、包装结构与造型设计、设计方法学、包装设计
考核方式: 考查。平时成绩+课程论文

课程成绩: 平时成绩占 40%，课程论文占 60%
教材:
教师: 张敏

Unit code: 24312796
Unit name: Packaging System Engineering
Credits: 2.5
Introduction This course is a mandatory course, which connects all the parts of the whole incubation plan. It could inspire the critical thinking ability of the students. It will be taught by case study and in-class discussion. The students should be able to design the package for one product to increase its sales, which could showcase the core value for packaging.
Teaching Pattern: 54
Prerequisite: Packaging Materials, Packaging Technology, Packaging Structure and Modeling Design, Design Methodology, Packaging Design
Course Assessment: Final Score=Usual Score*40%+Final Assignment Score*60%;
Textbook: NA
Course Director: Min Zhang

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课程代码: 24312797
课程名称: 包装信息设计
学分: 2
课程描述 《包装信息设计》主要讲述包装表面文字、图形、色彩以及造型等视觉元素针对包装信息传播所进行的逻辑组合；包装表面信息与销售环境的协调；组合系列包装的整体打造的设计方法，以案例分析与实训操作为手段，重点培养学生包装设计的整体系统思维，目标针对性与功能明确性的设计思想，是学生走上工作岗位从事设计任务的必备课程。
课时安排: 40（理论 27 学时，实训 13 学时）
先修课程: 设计方法学、设计色彩与色度学、设计基础
考核方式: 考查，平时设计作业。
课程成绩: 课程平时设计作业成绩占考核成绩的 80%，课堂考评 20%
教材: 《商品包装设计》，曾敏主编，重庆大学出版社，2014 年第 1 版
教师: 张雄

Unit code: 24312797
Unit name: Packaging Information Design
Credits: 2

Introduction
The course introduces the visual elements of packaging including words, pictures, color and modeling; the matching between the packaging information and its sales environment and the system design methods. It will be taught by case study and hand-on operations to incubate the critical thinking ability and therefore it is an important course.
Teaching Pattern: 36 hrs (theory)+27 hrs (experiment)
Prerequisite: Design Methodology, Design Color and Colorimetry, Design Fundamentals
Course Assessment: Final Score=Usual Score*20%+Assignment Score*80%;
Textbook: Min Zeng. Commercial Packaging Design. Chongqing University press, 2014.
Course Director: Xiong Zhang

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课程代码: 24312809
课程名称: 品牌设计与策划
学分: 1.5
课程描述 本课程是包装工程的专业必修课。以品牌的相关基础理论贯穿特定的品牌形象设计课题来解决品牌信息传达问题,并形成概念性的设计方案,以此开拓学生对于生活中品牌视觉传达常规形态的观察与感悟,以及提高品牌形象设计的创新思维和技能。着重阐述如何构建一种品牌形象信息“传达”的方式,实现设计师、品牌对象与受众三要素之间共同愿望。让学生在产品设计中有个全面的认识。
课时安排: 27
先修课程: 包装设计学 CAD、广告与传媒
考核方式: 考查。论文提交+平时成绩
课程成绩: 期末论文成绩占考核成绩的 50%, 平时成绩占 50%
教材: 《品牌策划实务》刘世忠主编, 复旦大学出版社, 2007 年第 1 版
教师: 黎盛

Unit code: 24312809
Unit name: Brands Design and Marketing
Credits: 1.5
Introduction This course is a mandatory course. It teaches the students how to communicate the brands information and form a design plan. It helps the students to understand the visual transmission for a brand and increase their critical thinking ability. It also helps the students to fully understand the product design procedures.
Teaching Pattern: 27
Prerequisite: Packaging Design CAD, Advertising and Media
Course Assessment: Final Score=Usual Score*50%+Final Assignment Score*50%
Textbook:

Shizhong Liu. Brands marketing. Fudan University press, 2007.

Course Director: Sheng Li

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课程代码: 24322951

课程名称: 包装工程专业导论

学分: 1

课程描述

通过对部分包装技术的最新研究及应用的跟踪了解,掌握包装行业最新的科技进展,让学生了解包装的发展方向,同时也让学生意识到还有许多的技术需要创新和攻关,需要更多的努力,推动包装技术和包装行业的发展。

课时安排: 18

先修课程:

考核方式: 平时成绩+课程论文

课程成绩: 平时成绩占 40%, 课程论文占 60%

教材:

教师:

Unit code: 24322951

Unit name: Advances in Packaging Engineering

Credits: 1.5

Introduction

Through the latest research and application tracking of some packaging technologies, we have mastered the latest scientific and technological advances in the packaging industry, allowing students to understand the direction of development of packaging, and at the same time allowing students to realize that there are many technologies that need innovation and research, and more. Work hard to promote the development of packaging technology and packaging industry.

Teaching Pattern: 18

Prerequisite: NA

Course Assessment:

Final Score=Usual Score*40%+Final Assignment Score*60%

Textbook:

NA

Course Director: Min Zhang

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课程代码: 24322836

课程名称: 包装设计

学分: 3

课程描述

本课程是包装机专业的专业选修课。通过该课程的学习,在经济全球化的今天,包装成为商品不可分割的一部分。包装设计的优劣直接影响着产品的销售。包装设计是包装工程中非常重要的部分。通过该课程的学习,了解基本概念以及包装设计的学科关系,包装设计的

功能和分类及发展源流。
课时安排: 63 (理论课: 36, 实验: 27)
先修课程: 包装设计学 CAD, 设计基础, 设计色彩与色度学, 设计方法学
考核方式: 期末考核 (设计作业) + 平时成绩 (课堂表现、课后作业、课程设计)
课程成绩: 平时成绩×50% (包含考勤、平时上课表现、课程设计完成情况) + 期末考核 (设计作业) 成绩×50%
教材: 《包装设计》, 杨仁敏主编, 西南大学大学出版社, 1996 年 9 月
教师: 李一知

Unit code: 24322836
Unit name: Packaging Design
Credits: 3
Introduction This course is a selective course for the major. Nowadays, packaging has become an important part for commodities and the design of packaging affects its sales value. Through the study of this course, the students should understand the basic concepts, the functions of packaging design and its history/trends.
Teaching Pattern: 36 hrs (theory)+27 hrs (experiment)
Prerequisite: Packaging Design CAD, Design Fundamentals, Design Color and Colorimetry, Design Methodology
Course Assessment: Final Score=Usual Score*50%+Final Assignment Score*50%; Usual Score is Determined by attendance rate, homework, and the completion of experiments
Textbook: Renmin Yang. Packaging design. Southwest University press, 1999.
Course Director: Yizhi Li

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课程代码: 24322935
课程名称: 网页与多媒体设计
学分: 2.5
课程描述 本课程是包装机专业的专业选修课。通过该课程的学习, 了解网页制作和网站建设所需的基本知识, 理解 HTML 语言和 CSS 样式个属性以及网页设计工具软件 Dreamweaver 和 Photoshop 的使用及应用, 掌握网页制作和网站建设所需的基本技能。能够根据任务需求建立客户端的静态网页和网站。通过本课程的学习, 为包装工程的设计课程打下良好的基础。
课时安排: 54 (理论课: 27 学时, 实验: 27 学时)
先修课程: 包装设计学 CAD, 设计基础, 广告与传媒
考核方式: 考查。期末考核 (设计作业) + 平时成绩 (课堂表现、课后作业、课程设计)
课程成绩: 平时成绩×50% (包含考勤、平时上课表现、课程设计完成情况) + 期末考核 (设计作业) 成绩×50%
教材: 《Dreamweaver CS3+HTML 超炫网页设计与制作》, 胡菘著, 中国青年出版社, 2008 年 1 月

教师：李一知

Unit code: 24322935

Unit name: Web and Multi-media Design

Credits: 2.5

Introduction

<p>This course is a selective course. Through the learning of the course, the students should understand the design for webpage and website, the HTML language, the design tool (Dreamweaver and Photoshop) as well the basic skills. The students should be able to develop static webpages and websites according to the need. This course is also very important for other design courses.</p>

Teaching Pattern: 27 hrs (theory)+27 hrs (experiment)
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Prerequisite: Packaging Design CAD, Design Fundamentals, Advertising and Media

Course Assessment:

Final Score=Usual Score*50%+Final Assignment Score*50%;

Usual Score is Determined by attendance rate, homework, and the completion of experiments

Textbook:

Song Hu. Dreamweaver CS3+HTML webpage design. China youth press, 2008.
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Course Director: Yizhi Li

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课程代码：24322832

课程名称：包装标准与法规

学分：2

课程描述

<p>在经济全球化、国际竞争日趋激烈的形势下，包装标准化在经济发展中发挥着举足轻重的作用。《包装标准与法规》是一门专业选修课，是教授学生系统有效地了解和掌握包装标准化和相应标准法规的课程，培养更了解国内外包装标准及法规的专业人才，提高我国包装产品在国际国内市场上的竞争能力。课程的基本内容包括标准化及包装标准化概论、包装标准分类指要、包装标准的制定和修订、标准情报管理与文献检索及各国包装法律法规的了解。</p>
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课时安排: 36

先修课程: 包装材料学、包装工艺学、包装机械、包装结构与造型设计、运输包装学

考核方式: 考试。期末考试+ 平时成绩

课程成绩: 期末考试占 60%，平时成绩占 40%

教材: 《包装标准化与质量法规》，陆佳平主编，印刷工业出版社，2007 年第 1 版

教师: 张敏

Unit code: 24322832

Unit name: Packaging Standards and Rules
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Credits: 2

Introduction

<p>Nowadays, the standardization of packaging plays important. This course introduces the students the standards and rules needed to help them become professional. The course covers the</p>

standardization of packaging, the categories of packaging standards, the design and revision of packaging standards, its management as well as the searching methods.
Teaching Pattern: 36
Prerequisite : Packaging Materials, Packaging Technology, Packaging Machinery, Packaging Structure and Modeling Design, Transportation Packaging
Course Assessment: Final Score=Usual Score*40%+Final Assignment Score*60%
Textbook: Jiaping Lu. Packaging standardization and quality regulations. Printing industry press, 2007.
Course Director: Min Zhang

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课程代码: 24322889
课程名称: 人体工程学
学分: 2.5
课程描述 人体工程学, 亦即是应用人体测量学、人体力学、劳动生理学、劳动心理学等学科的研究方法, 对人体结构特征和机能特征进行研究, 提供人体各部分的尺寸、重量、体表面积、比重、重心以及人体各部分在活动时的相互关系和可及范围等人体结构特征参数; 还提供人体各部分的出力范围、以及动作时的习惯等人体机能特征参数, 分析人的视觉、听觉、触觉以及肤觉等感觉器官的机能特性; 分析人在各种劳动时的生理变化、能量消耗、疲劳机理以及人对各种劳动负荷的适应能力; 探讨人在工作中影响心理状态的因素以及心理因素对工作效率的影响等。包装工程专业主要学习了解包装在设计、生产、销售过程中人与包装; 包装与环境等方面的协调、适应、行为优化、行为引导等方面的知识, 它是设计中必要的基础理论知识。
课时安排: 45
先修课程: 包装设计、包装信息设计、包装结构与造型设计、设计方法学
考核方式: 考试。闭卷考试 + 平时成绩。
课程成绩: 卷面成绩占考核成绩的 60%, 平时成绩占 40%
教材: 《人机工程学》, 赵江洪著, 高等教育出版社, 2014 年
教师: 张雄

Unit code: 24322889
Unit name: Human Engineering
Credits: 2.5
Introduction Human engineering applies the measurement, mechanics, physiology and psychology tools to study the structure properties of human beings. It provides information about all the parameters of human parts and the relationship between each other in order to analyze the visual, hearing, feeling properties; to analyze the physiology change, energy consuming and fatigue mechanisms; to analyze the psychology and its affects towards working efficiency. It is a basic course for packaging engineering.
Teaching Pattern: 45

Prerequisite : Packaging Design, Packaging Information Design, Packaging Structure and Modeling Design, Design Methodology
Course Assessment: Final Score=Usual Score*40%+Final Exam Score*60%
Textbook: Jianghong Zhao. Human engineering. Higher education press, 2014.
Course Director: Xiong Zhang

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课程代码: 24322833
课程名称: 包装工程专业英语
学分: 2
课程描述 《包装工程专业英语》是包装工程专业的一门重要的外语课程。学习本课程可以使学生了解更多的专业术语、专业知识、国内外包装发展动态和最新知识，从而开拓专业知识面。它主要讲解有关包装机械、包装工艺、运输包装等方面的知识，通过本课程的学习，学生应掌握常用的包装技术与方法，掌握更多的专业词汇，提高快速阅读理解能力，注意科技英语的表达特点和翻译技巧，把课堂学习与课外的大量专业阅读和练习相结合，为将来的工作和学习打下坚实的基础。
课时安排: 36
先修课程: 包装材料学、包装设计、运输包装学
考核方式: 考试。
课程成绩: 平时成绩×40%+期末考试成绩×60%
教材: 《包装英语教程》，金国斌主编，中国轻工业出版社，2012年第三版
教师: 徐丹

Unit code: 24322833
Unit name: Packaging Engineering English
Credits: 2
Introduction This course is an important language course. It helps the students to understand the terms, knowledge and progress of packaging. It introduces mainly the knowledge on packaging mechanisms, packaging technique and transportation packaging. Through the study, the students should understand the common techniques and methods, which can increase their vocabulary, enhance their ability of fast reading and interpretation for their future career.
Teaching Pattern: 36
Prerequisite: Packaging Materials, Packaging Design, Transportation Packaging
Course Assessment: Final Score=Usual Score*40%+Final Exam Score*60%
Textbook: Guobin Jin. Packaging English. China light industry press, 2012.
Course Director: Dan Xu

课程代码: 24322878
课程名称: 绿色包装学
学分: 2.5
课程描述 在全球环境压力日益严峻的今天,如何有效保护环境显得极为重要。包装废弃物作为对环境有着重要影响的源头之一,如何有效控制也就显得迫在眉睫了。《绿色包装学》是一门专业选修课,是教授学生系统有效地了解和掌握国内外绿色包装标准法规、绿色包装系统设计、绿色包装材料、包装废弃物回收利用及绿色包装评估等有关用绿色包装保护环境的课程。课程对培养适应今后包装行业发展及社会可持续性发展的包装人才有着重要意义。
课时安排: 45
先修课程: 包装材料学
考核方式: 考查。平时成绩+课程论文
课程成绩: 平时成绩占 40%+课程论文占 60%
教材: 《绿色包装》,武军、李和平编著,中国轻工业出版社,2007年第2版
教师: 张敏

Unit code: 24322878
Unit name: Green Packaging
Credits: 2.5
Introduction Packaging waste is a major source for environment pollution, therefore it's necessary to know how to control it. This course is a selective. It teaches the students how to understand the regulations and rules of green packaging, how to design the system and material, how to recycle the waste and evaluate it. It helps for the achievement of a sustainable packaging industry as well as a society.
Teaching Pattern: 45
Prerequisite: Packaging Materials
Course Assessment: Final Score=Usual Score*40%+Final Assignment Score*60%
Textbook: Jun Wu. Green packaging. China light industry press, 2007.
Course Director: Min Zhang

课程代码: 24322888
课程名称: 企业识别系统设计
学分: 3
课程描述 企业形象价值经济学家对“形象”这种似乎难以用确切的数据来描述,却又常常暗中操纵着市场销售的因素深感头痛。有人认为,在购买行为中,对商品形象的好感起决定作用。绝大多数的购买冲动,主要来自于被商品形象的吸引,然后才考虑价格、品质、功效等其他因素。企业理念识别从理论上说,企业的经营理念是企业的灵魂,是企业哲学、企业精神的集

中表现。
同时也是整个企业识别系统的核心和依据。企业的经营理念要反映企业存在的社会价值、企业追求的目标以及企业的经营思想。
课时安排: 63 (理论课: 36 学时, 实验: 27 学时)
先修课程: 包装设计, 品牌设计与策划, 设计基础, 广告与传媒
考核方式: 考查。期末考核 (设计作业) + 平时成绩 (课堂表现、课后作业、课程设计)
课程成绩: 平时成绩×50% (包含考勤、平时上课表现、课程设计完成情况)+期末考核 (设计作业) 成绩×50%。
教材: 《企业形象策划实务》周朝霞著, 机械工业出版社, 2011 年
教师: 李一知

Unit code: 24322888
Unit name: Corporate Identity System Design
Credits: 3
Introduction The corporate identity affects the consumer purchase. They are firstly attracted by the identity and then consider the price, quality and functions. Therefore, the corporate identity is the soul for a company. Through the study of this course, the students should know how to express the society value, the goal and the philosophy of the company through the corporate identity system design.
Teaching Pattern: 36 hrs (theory)+27 hrs (experiment)
Prerequisite : Packaging Design, Brands Design and Marketing, Design Fundamentals, Advertising and Media
Course Assessment: Final Score=Usual Score*40%+Final Assignment Score*60%; Usual Score is Determined by attendance rate, homework, and the completion of experiments
Textbook: Zhaoxia Zhou. Corporate identity system design. Mechanical industry press, 2011.
Course Director: Yizhi Li

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课程代码: 24322944
课程名称: 展示与陈列设计
学分: 3
课程描述 《展示与陈列设计》课程是包装工程专业的教学实践性环节。本课程旨在通过专业考察课程的学习和实践, 应使学生掌握展示空间环境的创造的目的与方法, 通过采用一定的视觉传达手段, 照明方式以及道具设施, 将信息和宣传内容展示给公众, 培养具有较强设计水平, 敏锐把握展示发展趋势, 又有较强动手操作能力的新型人才。本课程采取课堂理论教学与实践相结合的方法, 重实践操作, 以课堂教学为主, 课堂实践与教师辅导相配合, 并适当插入市场调查活动以及优秀作品评析, 研究展示设计诸要素之间的关系与整体效果, 加深学生对“展示”概念的全面理解和认识。重点在于加强学生在展示设计的组织结构设计和视觉传达设计方面的构思和表现能力, 让学生具备独立从事多类展示活动的设计工作能力。

课时安排: 63
先修课程: 企业识别系统设计、网页与多媒体设计
考核方式: 考查。期末设计 + 平时成绩 (课堂表现、课后作业、考勤)
课程成绩: 期末设计 30%, 平时成绩 70%
教材: 《展示设计》, 符远,陈炬主编, 高等教育出版社, 2008 年第 1 版
教师: 刘星

Unit code: 24322944
Unit name: Exhibition Design
Credits: 3
Introduction This is a practical course. It helps the students to understand the method and way to manage the exhibition space through visual delivery as well as lighting and stage design. It combines the in class teaching with practical applications and provides a way to get deep into the market. It will also provide an opportunity for students to learn from each other. It will help the students to learn how to structure the design and delivery the thought, to be prepared for independent work during their later career.
Teaching Pattern: 63
Prerequisite: Corporate Identity System Design, Web and Multi-media Design
Course Assessment: Final Score=Usual Score*30%+Final Assignment Score*70%; Usual Score is Determined by attendance rate, homework, and the completion of experiments
Textbook: Yuan Fu and Ju Chen. Exhibition design. Higher education press, 2008.
Course Director: Xing Liu

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课程代码: 24322893
课程名称: 设计管理
学分: 2.5
课程描述 本课程结合我校包装工程课程结构的实际将重点讲解设计与管理的相互促进关系, 使学生理解通过管理提高设计过程的效率和设计的针对性, 课程的开设在国内有一定的开创性, 也有效地解决了设计类学科理论与实践, 课堂与市场的链接问题。
课时安排: 45
先修课程: 包装设计、包装信息设计、广告与传媒、设计基础
考核方式: 考查。平时作业与期末设计作业相结合的形式
课程成绩: 期末设计考核成绩的 60%, 平时成绩占 40%
教材: 《设计管理》, 刘国余编著, 上海交通大学出版社, 2003 年 6 月
教师: 张雄

Unit code: 24322893
Unit name: Design Management

Credits: 2.5
Introduction This course introduces the relationship between design and management to help students understand how to use management tool to enhance the efficiency of design. This course is innovative and could help to solve the connection problem between in class teaching and market application.
Teaching Pattern: 45
Prerequisite: Packaging Design, Packaging Information Design, Advertising and Media, Design Fundamentals
Course Assessment: Final Score=Usual Score*40%+Final Assignment Score*60%;
Textbook: Guoyu Liu. Design management. Shanghai Jiaotong University press, 2003.
Course Director: Xiong Zhang

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课程代码: 24322834
课程名称: 包装管理学
学分: 3
课程描述 《包装管理学》是包装工程专业课中一门专业发展选修课程。它主要讲解包装企业和包装行业的管理原则及包装企业的管理案例，主要包括包装企业经营和生产管理，包装企业的设备管理，包装企业的技术管理，包装企业的质量管理，包装企业的成本管理，包装企业的物资管理，包装技术经济分析，包装的使用管理，包装废弃物的综合利用及管理，包装的标准化。对各类包装企业各个部门、各个环节的管理具有重要意义。
课时安排: 54
先修课程: 包装材料学、包装结构与造型设计、包装工艺学、包装印刷技术
考核方式: 考查。论文提交方式+平时成绩
课程成绩: 期末成绩占考核成绩的 60%，平时成绩占 40%
教材: 《包装管理学》，戴宏民、杨祖彬著，西南交通大学出版社，2014 年第 1 版
教师: 黎盛

Unit code: 24322834
Unit name: Packaging Management
Credits: 3
Introduction This course is a selective course. It mainly introduces the management rules and management cases of packaging industry and companies, including production management, equipment management, technology management, quality management, cost management, material management, economic analysis and waste management.
Teaching Pattern: 54
Prerequisite : Packaging Materials, Packaging Structure and Modeling Design, Packaging Technology, Packaging Printing Technology

Course Assessment: Final Score=Usual Score*40%+Final Assignment Score*60%;
Textbook: Hongmin Dai and Zubin Yang. Packaging management. Southwest Jiaotong University press, 2014.
Course Director: Sheng Li

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课程代码: 24322936
课程名称: 物流管理
学分: 2.5
课程描述 物流管理学作为包装工程专业选修课,是一门发展迅速的学科。物流管理学是根据物质资料和商品流动的规律,应用科学的管理原理与技术方法,研究如何将运输、仓储、装卸、加工、整理、配送、信息等方面有机结合,形成完整的供应链,为用户提供多功能、一体化的综合性服务以及对物流活动进行计划、组织、指挥、协调、控制和监督,使物流活动实现最佳的协调和配合,降低成本、提高效率 and 效益、保障物质质量与安全的一门课程。
课时安排: 45
先修课程:
考核方式: 期末考核采用开卷考核方式。
课程成绩: 成绩评定包括平时作业成绩、期末考核成绩。在总成绩中,平时成绩占 40%、期末考核成绩占 60%。
教材: 《物流管理学》,王槐林 刘明菲主编/著,武汉大学出版社,2005 年第 1 版。
教师:

Unit code: 24322936
Unit name: Logistics Management
Credits: 2.5
Introduction This course is a selective course. Based on the rules of material supplies and product distribution, it introduces how to transport, storage, unload, process, order, distribute the products, forming an integrate supply chain, to provide the customers multifunctional service. It could lower the cost, enhance the efficiency as well as the quality and safety of the products.
Teaching Pattern: 45
Prerequisite:
Course Assessment: Final Score=Usual Score*30%+Final Exam Score*70%; Usual Score is Determined by attendance rate, homework, and the completion of experiments; Final exam is open-book exam.
Textbook: Huailin Wang and Mingfei Liu. Logistics management. Wuhan University press, 2005.
Course Director:

课程代码: 24322914
课程名称: 食品冷链物流
学分: 2.5
课程描述 《食品冷链物流》作为包装工程专业的专业发展课程之一,对从事包装行业的从业人员具有一定的辅助作用。本课程主要介绍冷链物流的基础理论和相关设备、设施;食品冷链物流运输、仓储、配送等作业过程中的特点;如何设计冷库及对冷藏食品进行相关运输;如何对肉类、果蔬、水产品及奶制品进行运输的选择和管理。
课时安排: 45
先修课程:
考核方式: 考查。课程论文+平时成绩。
课程成绩: 课程论文占考核成绩的 80%, 平时成绩占 20%。
教材: 《农产品冷链物流》, 李建春主编, 北京交通大学出版社, 2014 年第 1 版
教师: 吴习宇

Unit code: 24322914
Unit name: Cold-chain Logistics
Credits: 2.5
Introduction This course is a selective course and help the students to be qualified for their future jobs. It introduces the basic mechanisms and related appliance/equipment; the properties of cold-chain transportation, storage and distribution; how to design the storage room; how to select and manage the food products including meat, fresh produce, aquatic products and milk products.
Teaching Pattern: 45
Prerequisite: NA
Course Assessment: Final Score=Usual Score*30%+Final Assignment Score*70%;
Textbook: Jianchun Li. Cold-chain logistics for agricultural products. Beijing Jiaotong University, 2014.
Course Director: Xiyu Wu

课程代码: 24322909
程名称: 食品化学
学分: 2
课程描述 本课程主要研究食品的化学组成、性质和食品在储藏加工和包装过程中发生的化学和物理变化,食品色香味和食品的安全性以及人体营养的基本原理,加工贮藏过程中食品营养价值的变化等,是食品质量与安全专业的必修专业课。 学习本课程的目的是使学生掌握食品风味成分、营养成分和其它功能成分及有害成分等的变化规律,为保证和提高食品的质量、开发新的食品资源,调整食物结构提供必要的理论基础。

课时安排: 36
先修课程: 普通化学、有机化学 I、分析化学、基础生物化学
考核方式: 闭卷考试 + 平时成绩
课程成绩: 卷面成绩占考核成绩的 70%，平时成绩占 30%
教材: 《食品化学》，赵国华主编，科学出版社，2014年第1版
教师: 王洪伟

Unit code: 24322909
Unit name: Food Chemistry
Credits: 2
<p>Introduction</p> <p>The main content of the Food Chemistry includes the composition、properties、physical and chemical changes in processing、storage、packaging process, sensory、food safety、the basic principle of human nutrition, food nutrition changes in processing and storage.</p> <p>By learning the course, the students are expected to master the variation regulation of food flavor ingredients, nutritional ingredients and functional ingredients and other harmful components, ensure and improve the quality of food, develop new food resource, provide the necessary theoretical basis for the adjustment of food structure.</p>
Teaching Pattern: 36
Prerequisite: General Chemistry, Organic Chemistry I, Analytical Chemistry, Basic Biochemistry
<p>Course Assessment: Closed book examination + usual results</p> <p>Coil performance accounted for 70% of the results, usually accounted for 30%</p>
Textbook: "Food Chemistry", edited by Zhao Guohua, Science Press, 1st edition, 2014
Course Director: Hongwei Wang

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课程代码: 24322917
课程名称: 食品微生物学
学分: 2.5
<p>课程描述</p> <p>食品微生物学是食品科学学院食品质量与安全专业的必修课程之一，课程内容包括微生物学的基础知识和微生物学在食品中的应用知识两部分。微生物学基础知识部分包括对三大类重要的微生物（细菌、真菌和病毒）的形态大小、结构组成、繁殖方式和培养特征的认识；对微生物的营养、生长、代谢、遗传与变异和生态知识的学习。这部分内容紧紧围绕与食品相关的微生物种类和事例。微生物学在食品中的应用知识部分主要包括有益微生物在食品工业中的应用、有害微生物所引起的食品腐败和食物中毒及食品卫生微生物指标。课程的学习为后续课程微生物的检测奠定基础。</p>
课时安排: 49
先修课程: 有机化学I、食品化学、基础生物化学
考核方式: 闭卷考试 + 平时成绩。
课程成绩: 卷面成绩占考核成绩的 60-70%，平时成绩占 40-30%。
教材: 《食品微生物学》，贺稚非、李平兰主编/著，西南师范大学出版社，2010年第1版
教师: 杜小兵

Unit code: 24322917
Unit name: Food Micorobiology
Credits: 2.5
<p>Introduction</p> <p>Food Microbiology is one of the three main courses of food science and engineering. It is based on biochemistry, organic chemistry, biology, physics and nutrition, etc., specializing in food-related microbial morphological characteristics, physiological and biochemical characteristics, growth and reproduction regulations, environmental factors on microbial growth, microbial classification, microbial ecology, microbial genetic variation and breeding.</p> <p>By learning the course, we will cultivate students to develop substances that are beneficial to human life by using microbial production, control the harmful microorganisms that cause food corruption and cause food poisoning, prolong food shelf life and eliminate food poisoning.</p>
Teaching Pattern: 49
Prerequisite: Organic Chemistry I, Food Chemistry, Basic Biochemistry
<p>Course Assessment: Closed book examination + usual results.</p> <p>Coil performance accounted for 60-70% of the results, usually 40-30% of the results.</p>
Textbook: Zhifei He, Lanping Li, Food Microbiology. Chongqing: Southwest China Normal University press. 2010.
Course Director: Xiaobing Du

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课程代码: 24322908
课程名称: 食品工艺学导论
学分: 1.5
<p>课程描述</p> <p>《食品工艺学》作为食品科学与工程的综合专业性基础课程, 主要在研究食品腐败变质的原因和基于食品保藏的各种加工方法的基本原理的基础上, 讲授食品加工的基本工艺与设备。它作为食品质量与安全专业必修课程, 对食品加工过程的质量安全控制具有重要作用。</p>
课时安排: 27
先修课程: 食品化学, 食品微生物学
考核方式: 闭卷考试 + 平时成绩。
课程成绩: 卷面成绩 70%+平时成绩 30%
教材: 《食品工艺学导论》, 马长伟, 曾名勇主编/著, 中国农业大学出版社, 2008年第2版
教师: 杜小兵

Unit code: 24322908
Unit name: Food Processing Technology Introductory Theory
Credits: 1.5
Introduction
Teaching Pattern: 27
Prerequisite: Food Chemistry, Food Microbiology
Course Assessment: Closed book examination + usual results.

Coil score 70% + usual 30%
Textbook: Introduction to Food Technology, Ma Changwei, Zeng Mingyong, ed., China Agricultural University Press, 2008 2nd Edition
Course Director: Xiaobing Du

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课程代码: 24322898
课程名称: 食品安全学
学分: 2.5
课程描述 食品安全学是食品质量与安全专业本科生的专业必修课。使学生掌握各类食品污染物的来源、毒性、毒作用机理和防控措施等食品安全学的基础知识和基本理论，能应用所学的知识综合分析食品从农田到餐桌整个过程可能存在的安全问题并提出有效的防控措施，具有综合运用所学知识解决食品质量与安全领域实际问题的能力。
课时安排: 45
先修课程: 基础生物化学，食品化学，食品微生物学
考核方式: 闭卷考试
课程成绩: 平时成绩（25%）+ 期末成绩（75%）
教材: 《食品安全学》，丁晓雯，柳春红主编，中国农业大学出版社，2011年第1版
教师: 丁晓雯

Unit code: 24322898
Unit name: Food Safety
Credits: 2.5
Introduction Food safety is a compulsory course for undergraduates majoring in food quality and safety. It enables students to master basic knowledge and basic theory of food security such as sources of all kinds of food pollutants, the toxicity, toxic mechanism and prevention and control measures and so on to apply their knowledge on synthetic analysis of possible security problems in whole process of food from farm to table and puts forward effective prevention and control measures with the integrated use of knowledge to solve practical problems in the field of food quality and security.
Teaching Pattern: 45
Prerequisite: Basic Biochemistry, Food Chemistry, Food Microbiology
Course Assessment: Final Score=Usual Score*25%+Final Exam Score*75%; Usual Score is Determined by attendance rate, homework; Final Exam: closed book exam.
Textbook: Food safety, Xiaowen Ding, Chunhong Liu, China agricultural university press, 2011(the first edition)
Course Director: Xiaowen Ding

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课程代码: 24322760
课程名称: 科技文献阅读

学分: 1
课程描述 本课程以专题形式介绍科技文献的调研、科技文献资料的阅读方法、科技文献阅读报告的撰写、讨论等内容,是食品质量与安全的专业发展选修课。学习本课程目的是培养学生如何查找科技文献资料,如何阅读科技文献资料,如何撰写阅读报告的能力,并树立创新的欲望和意识、为后面从事创新性学习作好理论和思想准备。
课时安排: 18 学时
先修课程:
考核方式: 考查
课程成绩: 文献阅读报告 60%+ 平时成绩 40%。
教材:
教师: 阚建全

Unit code: 24322760
Unit name: Study of academic thesis
Credits: 1
Introduction This course introduces the research of scientific and technological literature, the reading method of scientific and technical literature, the writing and discussion of scientific literature reading report in special form, which is the elective course for major of food quality and safety. The purpose of this course is to train students how to find the literature of science and technology, how to read the literature of science and technology, the ability of how to write a book report, and sets up the desire and innovation consciousness, to make preparation for theory and ideas for later creative learning.
Teaching Pattern: 18 hrs
Prerequisite:
Course Assessment: test; Final Score=Literature reading report Score*60%+Usual Score*40%; Usual Score is Determined by Classroom performance and Class attendance.
Textbook:
Course Director: Jianquan Kan

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课程代码: 24322875
课程名称: 科技论文写作
学分: 3
课程描述 本课程以专题形式介绍科研项目和选题、文献资料调研和综述、试验设计和方法论、论文撰写与评价、科研基本素质等内容,是食品质量与安全的专业发展选修课。学习本课程目的是培养学生树立献身科学事业的精神、创新的欲望和意识、实事求是和严谨的科学态度,为从事论文研究作好理论和思想准备。
课时安排: 54 学时
先修课程:
考核方式: 考查

课程成绩: 课程论文 80%+ 平时成绩 20%。
教材:
教师: 阚建全

Unit code: 24322875
Unit name: Composition of an Academic Thesis
Credits: 3
Introduction This course introduces scientific research project and selected topic, literature research and reviews, test design and methodology, thesis writing and evaluation, scientific research basic qualities in a special form, which is the elective course for major of food quality and safety. The purpose of this course is to cultivate students to set up dedicated science spirit, innovation desire and consciousness, seeking truth from facts and rigorous scientific attitude, to make preparation for theory and ideas for later research papers.
Teaching Pattern: 54 hrs lectures totally
Prerequisite:
Course Assessment: test; Final Score=Course papers Score*80%+Usual Score*20%; Usual Score is Determined by Classroom performance and Class attendance.
Textbook:
Course Director: Jianquan Kan

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课程代码: 24322932
课程名称: 食品贮藏概论
学分: 2
课程描述: 课程主要通过讲解果蔬采后生理代谢的变化、存在的问题以及贮运技术,让学生掌握果蔬类食品贮藏的基本原理和贮藏技术。课程以果蔬类食品为基础进行详细论述,果蔬类是人类主要的食品原料之一,由于基础科学和基础学科的发展,果蔬采后贮运已经成为一门蓬勃发展的新学科;贮运技术的深入研究及设备、材料、药剂的不断更新,也使果蔬产品的贮运品质和贮藏期得到了明显的提高和延长。
课时安排: 36 学时
先修课程: 基础生物化学、食品微生物学
考核方式: 开卷考试 + 平时成绩
课程成绩: 总成绩评定: 卷面成绩占考核成绩的 60%, 平时成绩占 40% 平时成绩评定: 平时成绩占总成绩的 40%, 由课堂表现、作业完成情况和课堂考勤 3 部分组成。 (1) 课堂表现 (10 分): 学生主动参与课堂练习、讨论, 创造性地提出问题的能力; (2) 作业完成情况 (15 分): 学生平时作业提交次数及完成质量; (3) 课堂考勤 (15 分)。 期末考试: 期末考试的范围涵盖第 2-6 章的内容, 采用开卷考试的形式, 试卷题型包括: 名词解释、填空、辨析、简答和问答等, 主要考察学生对基本概念的理解和运用课程内容解

决生产实际问题的能力。
教材: 《园艺产品贮藏加工学(贮藏篇)》,罗云波,生吉萍主编,中国农业大学出版社,2010年第2版
教师: 邓丽莉

Unit code: 24322932
Unit name: Food Storage Guideline
Credits: 2
<p>Introduction:</p> <p>Principles and Technology of Food Storage is a compulsory course in food science and engineering and it is also a professional course offered by horticulture, agronomy and other majors in Higher Agricultural colleges. The main content of the course includes postharvest storage principle of agricultural products, interrelated technology and facilities, transportation and marketing issues, chemical composition of agricultural products, agricultural products storage physiology of storage, the commercialization of agricultural products, agricultural products processing, transportation, purchase and sale of agricultural products fruit, vegetables, grain and oil storage and other agricultural and sideline products storage etc.. The purpose of this course is to enable students to master the basic principles and storage techniques of food storage, and to have the ability to solve practical problems through an in-depth understanding of the basic characteristics of food.</p>
Teaching Pattern: 36 hrs
Prerequisite: Basic Biochemistry, Food Microbiology
<p>Course Assessment:</p> <p>Final Score=Usual Score*40%+Final Exam Score*60%</p> <p>Usual Score is Determined by attendance rate, homework and class check;</p> <p>Final Exam: Open-book examination</p>
<p>Textbook:</p> <p>Luo Yunbo, Jiping. Garden product storage and processing (storage), China agricultural university press, 2010</p>
Course Director: Lili Deng

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课程代码: 24322904
课程名称: 食品感官分析
学分: 2
<p>课程描述</p> <p>本课程主要使学生了解食品感官分析、控制和分析的生理和感觉基础;对食品特定问题选择和应用适当的感官分析方法;理解食品感官分析中的试验设计和统计方法的应用;感官分析数据与仪器和化学测定的相关性;同时掌握三点测定、描述分析、阈值测定等基本食品感官分析方法,能组织并实施食品感官分析项目。</p>
课时安排: 45
先修课程: 食品化学

考核方式: 课程论文成绩+实验考核成绩+平时成绩
课程成绩: 课程论文成绩占考核成绩的 50%，实验成绩占 30%，平时成绩 20%
教材: 《食品感官分析》，韩北忠，童华荣主编，中国林业出版社，2009 年第 1 版
教师: 王洪伟

Unit code: 24322904
Unit name: Food Sensory Analysis
Credits: 2
<p>Introduction</p> <p>This course is an elective course for undergraduates majoring in food science and engineering and food quality and safety offered at the 5th semester for 40 class hour.</p> <p>Food sensory analysis is based on the analysis of food physical and chemical, combined with psychology, physiology and statistics and other knowledge to develop. Sensory analysis of food is used to evoke a scientific measurement method to analysis and interpret the reaction characteristics feel from food with its material sight, smell, taste, touch and hearing. Sensory analysis of food use the objective tool to detect organoleptic properties of food, based on psychology, physiology, physics, chemistry and statistics. With well design, can achieve the accuracy and reproducibility. The food sensory analysis is widely used in food processing, storage, food quality control and other aspects of food quality and safety.</p> <p>Through this course, students can grasp basic methods of sensory analysis of food, organize product sensory analysis project. It will also make students lay on product sensory analysis for statistical analysis combined with the expertise to interpret and analyze the corresponding correct conclusions, which can guide production and make new suggestions or improvements to scientific research.</p>
Teaching Pattern: 45 hrs
Prerequisite: Food Chemistry
<p>Course Assessment: Course Achievement + Experimental Results + Achievements</p> <p>Course papers accounted for 50% of the examination results, experimental results accounted for 30%, usually 20%</p>
<p>Textbook:</p> <p>"Food sensory analysis", Han Beizhong, Tong Huarong editor, China Forestry Publishing House, 2009 first edition</p>
Course Director: Hongwei Wang

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课程代码: 24322920
课程名称: 食品文化概论
学分: 2.5
<p>课程描述</p> <p>本课程是食品质量与安全专业和食品科学与工程专业的专业发展课程选修课。课程的任务是让学生了解食品文化的本质和特征、食品文化史、食品文化的产生、食品文化的功能影响和传播、食品文化的艺术、食品文化与经济、食品文化与民俗学、东西方食品文化差异、食品文化的种类、食品文化与认知科学、食品文化的作品和体验等有关知识，同时介绍生活</p>

中的一些养生习惯，对学生今后的学习及生活实践有一定的指导作用。
课时安排: 45 学时
先修课程:
考核方式: 闭卷考试+平时成绩。
课程成绩: 平时考核成绩(40%) + 期末笔试 (60%)。
教材: 庞杰主编. 食品文化概论. 北京: 中国农业大学出版社, 2009 年 12 月
教师: 明建

Unit code: 24322920
Unit name: Food Culture Introduction
Credits: 2.5
Introduction: <p>This course is an elective course for major of food quality and safety and major of food science and engineering. The task of the course is to let students understand the essence and characteristics of food culture, food culture history, food culture production, food culture influence and spread, the art of food culture, food culture and the economy, culture and folklore, the difference of eastern and western food culture, food culture category, food culture and cognitive science, works and the experience of food culture. Meanwhile, it introduces It also introduces some health habits in life, which gives some guidance for students' future study and life practice.</p>
Teaching Pattern: 45 hrs
Prerequisite:
Course Assessment: Final Score=Usual Score*40%+Final Exam Score*60%; Usual Score is Determined by attendance rate and homework; Final Exam: closed book exam
Textbook: <p>Jie Pang, Food Culture Introduction. Beijing: China Agricultural University Press. 2010.</p>
Course Director: Jian Ming