

人才培养方案课程体系变动情况及实施要求说明

Appendix: Talent cultivation scheme course system variation and implementation requirement

一、课程体系变动情况

Course system variation

BSAF 订单班人才培养方案是在 BASF 人才培养要求的基础上，以本院与 BASF 要求最相近的“石油化工技术专业人才培养方案”为基础，参考“AHK 化工工艺员三年制培训实施计划表”及“AHK（中国）化学工艺专业人才培养方案”编制而成的。课程体系以替换的方式增设《BASF 企业文化》课程，增加“BASF 岗位要求讲解及职业规划”部分内容，以加深学生对 BASF 的了解，增加企业认同感；增设《改性塑料加工工艺及设备》、《粉尘防爆技术》专门技术课程，以对接 BASF 真实岗位能力和技术需求，提高学生岗位工作的适应性；增设《化工过程控制综合实训》等实训课程，增加实训课程比例，提高学生的实际操作能力，适应 BASF 对企业人才的需求；增设《英语口语》，改《化工专业英语》为必修课，提高学生英语水平，以匹配 BASF 国际化公司对英语的要求，具体变动情况见表 1。

BASF order class talent cultivation scheme is compiled on the basis of BASF talent cultivation requirement, with “petrochemical engineering professional talent cultivation scheme” mostly similar to the college and BASF requirement, referring to “AHK chemical technologist three-year training and implementation scheme table” and “AHK(China) chemical industry professional talent cultivation scheme”. The course system increases the *BASF Enterprise Culture* course in a substituted form, adds some contents of “BASF Post Requirement Explanation and Vocational Planning”, so as to deepen students’ understanding to BASF, promote enterprise identification. In addition, it increases *Modified Plastic Processing Technology and Equipment*, *Dust Anti-explosion Technology* and other professional technical courses, so as to connect with BASF true employment ability and technical demand, improve students’ adaption to the post work. Moreover, it increases *Comprehensive Practical Training on Chemical Process Control* and other practical training courses, promote the percentage of practical training courses, improve the practical operating ability of the students, adapt to BASF’s talent requirements to enterprises. Furthermore, it sets the *Oral English course*, and changes the *Chemical Professional English* into a compulsory course, so as to improve the English level of the students, match BASF international company’s requirements on English. Please refer to table 1 for the specific variation condition.

表 1 课程体系变动情况表

| 课程名称 | 变动情况 | 变动原因 |
|------------------------------|--|--|
| 《大学生就业指导及职业规划》 | 原有《大学生就业指导及职业规划》中增加“BASF 岗位要求讲解及职业规划”部分内容 | 满足 BASF 公司对岗位要求讲解及职业规划指导的要求 |
| 《BASF 企业文化》 | 替换原有《化工科技前沿》 | 加深学生对 BASF 的了解，增加企业认同感 |
| 《高分子基础》 | 增设 | 适应 BASF 公司主要生产领域 |
| 《英语口语》 | 增设 | 针对 BASF 公司国际化要求高的特点，提高学生英语交流能力 |
| 《化工仓储管理》 | 由选修课改为必修课 | 根据 BASF 公司对物流管理、仓库管理方面要求较高的特点 |
| 《HSE 与化工安全技术》及《HSE 实体仿真操作实训》 | 合并原有《化工安全技术》及《HSE 基础教育》课程，增设实训课程《HSE 实体仿真操作实训》 | 针对化工行业及 BASF 公司将“安全”放在首要位置的特点，由原来的主要抓“安全理念”转变为“安全理念”与“安全技术”并重。 |
| 《化工专业英语》 | 由选修课改为必修课 | 针对 BASF 公司国际化要求高的特点，提高英文资料阅读能力 |
| 《粉尘防爆技术》 | 增设 | 针对 BASF 公司生产工艺过程安全防护的重点设置 |
| 《改性塑料加工工艺及设备》 | 增设 | 针对 BASF 公司生产领域为改性塑料加工设置 |
| 《高聚物合成实训》 | 增设 | 加深学生对高聚物合成的化学原理及工艺过程的认知 |
| 《化工装置操作实训》及《化工过程控制综合实训》 | 增设 | 根据 BASF 公司专家提出的原课程体系实训不足的问题设置，提高学生生产过程实际操作能力 |

Table 1: Table of Course System Variation

| Course name | Variation | Reason |
|---|--|--|
| College student employee guidance and vocational planning | Increase some contents of “BASF employment requirement explanation and vocational planning” in the original <i>College Student Employment Guidance and Vocational Planning</i> | Meet BASF company’s requirement on employment requirement explanation and vocational planning guidance |
| BASF enterprise culture | Substitute the original Chemical Technology Frontier | Deepen students’ understanding on BASF, increase enterprise |

| | | |
|---|--|--|
| | | identification sense |
| Macromolecule foundation | Substitute the original Petroleum Processing and Manufacturing Technology | Adapt to the main manufacturing fields of BASF company |
| Oral English | Increase | Improve students' English communication ability aimed at the characteristic of high international requirement of BASF company |
| Chemical storage management | Change from the optional course into the compulsory course | According to the characteristics that BASF company has a higher requirement on logistics management, storage management. |
| HSE and Chemical Safety Technology and Practical Training on HSE Entity Simulation Operation | Combine with the original Chemical Safety Technology and HSE Basic Education courses, set the additional practical training course Practical Training on HSE Entity Simulation Operation | According to the characteristics that the chemical industry and BASF company place "safety" on the first place, convert from the philosophy of emphasizing "safe philosophy" into "safe philosophy" and "Safe technology". |
| Chemical professional English | Change from the optional course into the compulsory course | Improve the English material reading ability aimed at the high international requirement of BASF company |
| Dust anti-explosion technology | Increase | Key settings for BASF's production process safety protection |
| Modified plastic processing technology and equipment | Increase | Setting aimed at the manufacturing field of BASF company as the modified plastic processing |
| Practical training on polymer synthesis | Increase | Deepen students' understanding of the chemical principles and processes of polymer synthesis |
| Practical training on chemical equipment operation and comprehensive practical training on chemical process control | Increase | Improve the practical operation ability in students' manufacturing process according to the problem setting that the original system has insufficient practical training proposed by BASF experts. |