
大学生数学学习效果影响因素评价

摘 要

学习效果可以反映出学生对知识的把握程度，认真研究影响学生学习效果的因素，是提高教学质量迫切需要解决的问题。“大学数学”作为高等院校必修的基础课具有广泛的应用性，它是对一些自然社会科学进行深入研究的重要工具，这使得这门课备受学校、老师和同学们的关注。开展对大学生数学学习效果影响因素的分析与评价对于大学数学具有重要意义。

本文围绕教育学、心理学以及数学学科自身的特点来进行分析。其中包括学生的个人因素，老师的教学因素以及社会因素，从主要的三个大类影响因素中提取了 8 个主要的影响因子，它们分别是：学习态度、学习方法、数学能力、学习兴趣、学习自信心、教学方式、师生互动、人才需求。

为了能够更严谨的分析评价各种因素对于大学生数学学习效果的影响，本文在借鉴国内外相关文献的基础上，尝试设计建立合适的数学模型，为了验证模型的正确性，设计了相应的问卷调查，共发放了 50 份问卷调查，实际回收 42 份有效问卷，从中随机抽取了 30 份，并将所得的具体数据进行整理、归纳，该模型得出各个因子的影响程度。

经过具体的分析发现，各种因素对大学生数学学习效果多多少少都有一定程度的影响，个人因素对学习效果的的影响是最为重要的，本文适当给予建议来提高大学生学习数学的效果。

关键词：大学数学、学习效果、模型构建

Abstract

Learning Learning effect can reflect students' mastery of knowledge. It is an urgent problem to study the factors that affect students' learning effect. "University mathematics", as a compulsory basic course in Colleges and universities, has a wide range of applications. It is an important tool for in-depth study of some natural and Social Sciences, which makes this course attract the attention of schools, teachers and students. It is of great significance to carry out the analysis and evaluation of the influencing factors of College Students' mathematics learning effect.

This paper focuses on the characteristics of pedagogy, psychology and mathematics. It includes students' personal factors, teachers' teaching factors and social factors. Eight main influencing factors are extracted from three main categories of influencing factors, which are learning attitude, learning method, mathematical ability, learning interest, learning self-confidence, teaching method, teacher-student interaction, talent demand.

In order to analyze and evaluate the influence of various factors on College Students' mathematics learning effect more rigorously, this paper attempts to design and establish a suitable mathematical model on the basis of referring to the relevant literature at home and abroad. In order to verify the correctness of the model, the corresponding questionnaire survey is designed. A total of 50 questionnaires are distributed, 42 valid questionnaires are actually recovered, 30 of which are randomly selected. The specific data obtained are sorted out and summarized, and the influence degree of each factor is obtained by the model.

Through specific analysis, it is found that all kinds of factors have a certain degree of influence on College Students' mathematics learning effect, and personal factors have the most important influence on learning effect. This paper gives appropriate suggestions to improve the effect of College Students' mathematics learning.

Key words: College mathematics, learning effect, model construction

目 录

摘 要	1
Abstract	2
第一章 绪论	5
1.1 研究背景	5
1.2 研究现状	5
1.3 研究意义	6
1.4 主要工作	6
第二章 大学生数学学习效果影响因素	8
2.1 学习态度	7
2.2 学习方法	7
2.3 数学能力	8
2.4 学习兴趣	8
2.5 学习自信心	9
2.6 教学方式	9
2.7 师生互动	9
2.8 人才需求	10
第三章 模型构建	11
3.1 建模目的	11
3.2 模型建立	11
3.2.1 构建依据	11
3.2.2 模型构建	11

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/228061011057006120>