



# 生成式人工智能辅助大学英语课程建设

——以“通用学术英语写作”课程建设为例

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01

背景

Part





# 背景



## 课程介绍

“通用学术英语写作”在我国大学英语教学领域是一门较为成熟的课程，在南京大学也已经开设近二十年。



## 系统重构

在生成式人工智能（GAI, Generative Artificial Intelligence）普及化应用的今天，有必要在教学内容、教学设计、评价反馈等方面对该课程进行系统重构与提升。



02

# GAI的界定及使用方法

Part





# GAI的界定及使用方法

## 生成式人工智能

生成式人工智能是一种能够生成新的、具有实际意义的数据的人工智能技术。与判别式人工智能不同，生成式人工智能不仅能够对输入数据进行分类或识别，还能够根据学习到的规律和模式生成全新的、类似的数据。

## 生成式人工智能的应用

生成式人工智能的应用体现在它能够根据用户的输入或问题，生成相应的回答、解释或建议，从而能够提供更加丰富和个性化的交互体验，满足用户在不同场景下的需求。

——文心一言



03

# GAI对“通用学术英语写作” 课程建设的建议

Part



# 课程内容开发



## 教学材料生成

AI可以帮助您生成或建议教学材料，如写作模板、范文、练习题等，有助于更好地指导学生写作。



## 课程大纲设计

AI可以基于现有的学术写作课程框架，提供课程结构的建议，包括必要的写作技巧、文体分析、研究方法等。



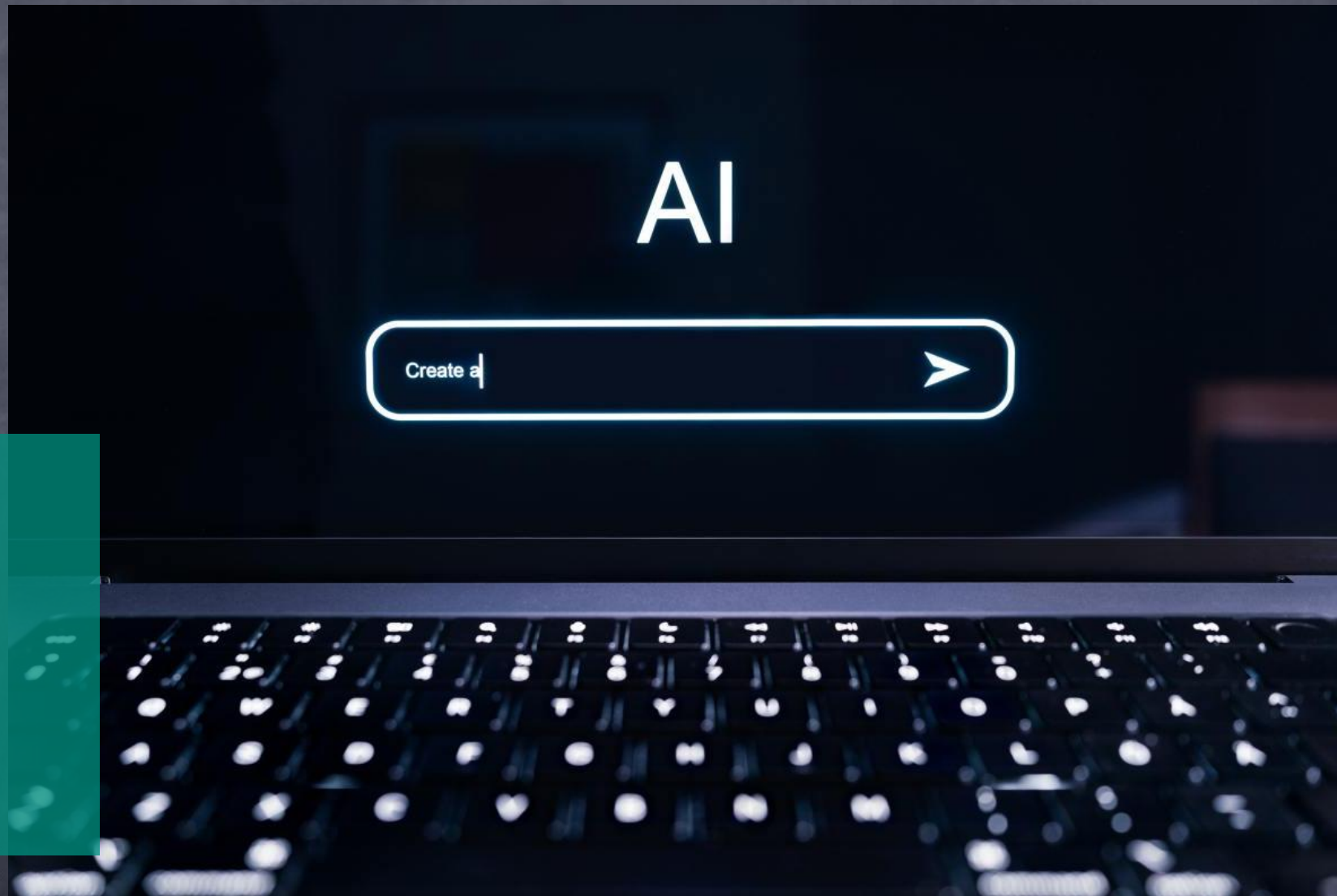
# ●●●●● 个性化学习

## 学生写作风格分析

AI可以分析学生的写作样本，提供个性化的反馈和改进建议，帮助学生提高写作水平。

## 自适应学习路径

根据学生的学习进度和理解程度，AI可以推荐适合的学习资源和练习，实现个性化教学。

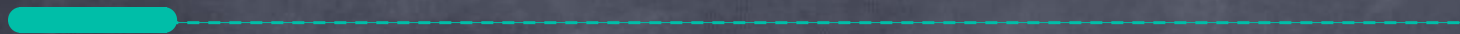




# 作业批改与反馈

## 自动批改

AI可以自动检查语法错误、拼写错误以及标点符号使用，减轻教师的工作负担。

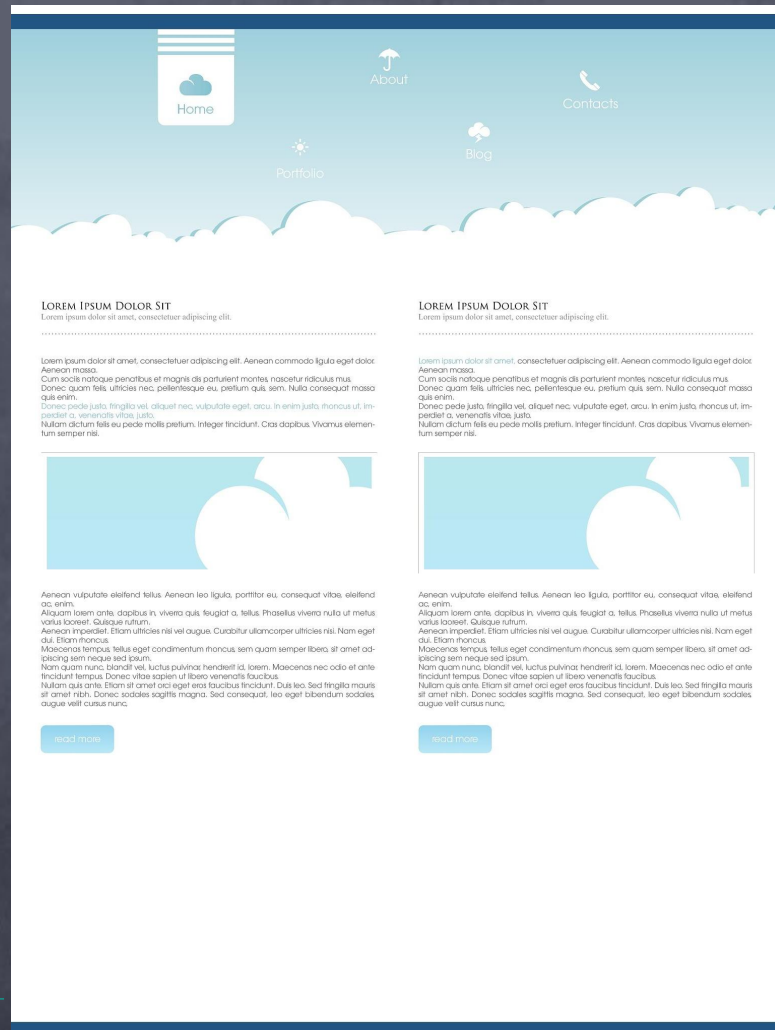


## 内容反馈

AI可以提供关于文章结构、论点清晰度、逻辑连贯性等方面的反馈，帮助学生改进文章。



—GPT 4





## 在线讨论

AI可以作为教学助手参与在线讨论，回答学生的问题，提供写作建议。

## 模拟写作环境

AI可以模拟不同的写作场景，让学生在模拟环境中练习写作，提高实际写作能力。

## 学习成果评估

AI可以帮助您跟踪学生的学习进度，评估他们的写作技能提升情况。

## 数据分析

通过分析学生的写作数据，AI可以帮助您识别教学中可能存在的问题，以便及时调整教学策略。



# 资源库建设



## 文献库

AI可以帮助构建和维护一个与课程相关的文献库，方便学生查找和引用资料。

## 案例库

AI可以协助收集和整理优秀的学术写作案例，供学生学习和模仿。



# 教学研究

## 教学方法研究

AI可以辅助您进行教学法的研究，通过分析大量数据来探索更有效的教学方法。

VS

## 学术研究

AI可以帮助您快速梳理和总结学术领域的最新研究成果，为教学内容的更新提供支持。

——GPT 4



04

# GAI辅助“通用学术英语写作” 课程的初步尝试

Part





# 生成教学大纲

## 更新教学大纲的原因

- 更好地落实国家对立德树人、课程思政的要求
- 体现具有中国特色项目式教学法理念

## 例1

Course Description and Course Objectives





# 生成教学大纲

例1

Course

## • Course Description

### • Course Objectives

#### • Language and Research-Related Skills:

#### • Lin

#### • Moral, Ethical, or Character Building and Professionalism:

1

9. **Academic Integrity:** Foster a strong sense of academic integrity, emphasizing the importance of honesty and ethical conduct in all aspects of academic work.

2

10. **Collaborative Skills:** Encourage effective collaboration, teaching students to work constructively with peers in reviewing, editing, and providing feedback on writing projects.

3

11. **Resilience and Adaptability:** Cultivate resilience and adaptability in students, preparing them to navigate challenges and feedback constructively during the writing process.

12. **Professional Communication:** Promote professionalism in communication, preparing students to present their ideas confidently and respectfully in diverse academic and professional settings.



# 生成教学大纲

## 更新教学大纲的原因

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## 例2

Course Content



# 生成教学大纲

例2

Course

## Strategies for Linking Topic Sentences and Evidence

1. Relate Evidence to Thesis and Topic Sentences
2. Use Evidence to Support Your Thesis and Topic Sentences
3. Vary the Length and Placement of Evidence
4. Integrate Evidence into Your Writing
5. Analyze and Explain
  - **Analysis Over Summary:** Don't just present evidence; analyze it. Explain how the evidence supports your topic sentence and thesis. This demonstrates critical thinking and strengthens your argument.
6. Quantitative and Qualitative Balance
  - **9. Use Direct Quotes Sparingly**
    - **Be Selective with Quotes:** Use direct quotes to highlight particularly powerful phrases or when paraphrasing would lose the sense. However, rely primarily on paraphrasing and summarization to keep your voice dominant in the essay.
  - **10. Evidence Hierarchy**
    - **Prioritize Your Evidence:** Start paragraphs with the strongest or most compelling evidence. This grabs the reader's attention and immediately supports the topic sentence with convincing information.
7. Address Counterarguments
8. Cite Evidence Properly
  - **Proper Citation:** Always cite your sources correctly according to the required academic style guide (APA, MLA, Chicago, etc.). This not only gives credit where it's due but also allows readers to verify your evidence.



# 生成教学方案

## 更新教学方案的原因：

01

### 关联教学目标与要求

通过教学活动落实教学目标与教学要求

02

### 出发点

以学生为中心

03

### 活动设计

兼顾教学活动的节奏、速度、多样性等

例3: Teaching Plan

HICS  
FOUND





# 生成教学方案

HICS  
FOUND

## Week 3: Thesis Statements and Essay Outlining

### Topics and Skills:

- Developing a strong thesis statement
- Creating an effective essay outline
- Organizing ideas and arguments logically
- Incorporating Chinese cultural elements and socialist core values

### Teaching Activities:

1. Lecture: Elements of a strong thesis statement and essay outline (20 min)
2. Guided Practice: Students draft thesis statements for their essays (20 min)
3. Peer Review: Students exchange thesis statements and provide feedback, considering the incorporation of Chinese cultural elements and socialist core values (20 min)
4. Outlining Workshop: Students create detailed outlines for their essays (40 min)
5. Group Discussion: Students discuss the challenges and strategies for organizing ideas effectively and incorporating cross-cultural perspectives (20 min)
6. Homework Assignment: Students revise their thesis statements and outlines based on feedback (200-250 words)



# 生成教学内容



## 针对性学习内容

对于不同水平的学生，提供针对性的学习内容，以适应不同学生的学习需求。

## 个性化学习内容

根据学生的兴趣和需求，提供个性化学习内容，帮助学生更好地发挥自己的优势。



**例4: Teaching materials-- Writing strategies for linking topic sentences and evidence effectively: Sample essay**



# 生成教学内容



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## Carbon Tax: A Strategic Lever for Climate Change Mitigation and Sustainable Development

This essay exemplifies the writing strategies for linking topic sentences and evidence effectively, as outlined:

1. **Relevance to Thesis and Topic Sentence:** Each body paragraph begins with a clear topic sentence that aligns with the thesis statement, focusing on the effectiveness of a carbon tax in addressing climate change. The evidence provided directly supports these topic sentences, ensuring a cohesive argument throughout. For instance, the World Bank study mentioned in the second paragraph directly supports the claim about the effectiveness of a carbon tax in reducing emissions.
2. **Use Credible Sources:** The essay cites reputable sources such as the World Bank, the Brookings Institution, and a news article from The Guardian discussing Sweden's success with carbon taxation. These sources are authoritative and add credibility to the arguments presented.
3. **Variety of Evidence:** The essay employs a mix of statistical evidence (the World Bank study), a case study (Sweden's experience), and expert analysis (Brookings Institution report) to support its claims. This variety caters to different reader preferences and strengthens the argument from multiple angles.





# 生成教学内容



## 针对性学习内容

对于不同水平的学生，提供针对性的学习内容，以适应不同学生的学习需求。

## 个性化学习内容

根据学生的兴趣和需求，提供个性化学习内容，帮助学生更好地发挥自己的优势。



例5: Expanding Your Academic Vocabulary in English





# 生成教学内容



**Part 1**

## Expanding Your Academic Vocabulary in English





# 生成教学练习

## 针对性练习

对于不同水平的学生，提供针对性的写作练习，以适应不同学生的学习需求。



## 个性化练习

根据学生的兴趣和需求，提供个性化写作练习，帮助学生更好地发挥自己的优势。

### 例6: Exercise Generation



# 生成教学练习

针对性

对于不同  
习，以适应



## GPT-4 Turbo

Certainly! Here are eight multiple-choice questions and two open-ended questions designed to assess comprehension of the essay's main thesis, supporting arguments, structure, organization, and evidence.

### Multiple Choice Question

1. What is the main thesis of the essay?
  - A) Insider dealing should be completely banned.
  - B) Insider dealing should be regulated through a proactive approach.
  - C) Insider dealing is not a significant issue in financial markets.
  - D) All forms of insider dealing are illegal.
2. According to the introductory paragraph, why is insider dealing a complex issue?
  - A) Because it is universally accepted by economists.
  - B) Due to its complexity and the conflicting interests of various stakeholders.
  - C) Because it is easy to detect and regulate.
  - D) It is not considered a major concern in financial markets.
3. What does the conclusion suggest about the current regulatory approach?
  - A) It is an unrealistic ambition to eliminate insider dealing entirely.
  - B) It should be deregulated to promote market efficiency.
  - C) A proactive approach is necessary to address the challenges of insider dealing.
  - D) It has been completely effective in reducing insider dealing activities.

7. According to the essay, what is a flaw in the economic benefit argument for insider dealing?

- A) It encourages insiders to delay the announcement of information.
- B) It ensures market efficiency.
- C) It is universally accepted by economists.
- D) It reduces the complexity of financial markets.

8. What evidence does the essay provide to support the effectiveness of a proactive approach?

- A) Anecdotal evidence from unnamed sources.
- B) Statistical data showing a reduction in insider dealing activities.
- C) Quotes from famous economists supporting insider dealing.
- D) There is no evidence provided in the essay.

### Open-ended Questions

9. Discuss how the essay addresses counterarguments to the regulation of insider dealing. Provide examples from the text to support your answer.
10. Evaluate the use of evidence in the essay. How does the author use evidence to strengthen the argument for regulating insider dealing through a proactive approach?

练习

写作练  
优势。



# 生成教学反馈

## 针对性反馈

针对特定教学目标与要求，提供针对性反馈，帮助学生更好地掌握知识和技能。

## 归纳性反馈

针对全班普遍现象，进行归纳性反馈，帮助学生更好地理解整体情况，明确学习方向。



## 个性化反馈

针对不同学生个体，提供个性化反馈，帮助学生找到适合自己的学习方法和路径。

## 系统性反馈

有概括有实例，帮助学生更好地掌握知识点和技能点，提高学习效果。

# 例7: Intelligent Feedback

01

## 个人文章润色及解释

针对不同学生个体，提供个性化点评，帮助学生找到适合自己的写作风格和技巧。



# 例7: Intelligent Feedback

01

## 个人文章润色

针对不同学生个体，  
自己的写作风格和技术

The modifications are as follows:↵

- Title: Change "take COVID-19 as an example" in the title to the subtitle after the colon, to better reflect the content of the article.↵
- First paragraph: Added explanations on the impact of global population growth and transportation development on large-scale epidemics, making the language expression more detailed and accurate.↵
- Second paragraph: Revised the description of the impact of historical epidemics on population development, adding more details and evidence to support, emphasizing its importance and profound impact.↵
- Last sentence: Detailed explanation of the impact of infectious diseases brought by European explorers, colonizers, and conquerors on the indigenous population of the Americas over the past 500 years, providing specific numbers.↵

# 例7: Intelligent Feedback

02

## 班级作业总体点评

班级作业总体点评，帮助学生更好地理解自己的作品，找出需要改进的地方。

# 例7: Intelligent Feedback

## 1. Extent of Adherence to Assignment Directions

Aspects Needing Improvement:

As

### 1. 3. Coherence and Flow:

### 5. Critical Thinking and Original Insight:

- Essays often restate known facts without offering new insights or critical analysis of the implications of coastal urbanization on the environment.

### 2. 2. Essays That Best Meet the Requirements

- 谢昊 (EAS-2-2023 231820156):** This essay stands out for its detailed analysis, specific examples, and clear structure. It demonstrates a deep understanding of the topic and adheres closely to the assignment directions.
- 张雨 (EAS-2-2023 231820266):** Offers a comprehensive approach to the topic, effectively uses evidence, and maintains a coherent argument throughout, showcasing strong academic writing skills.

2

作业总体点评

评, 帮助学生更好地理解自己的作品, 找方。





05

# GAI提示的主要特点

Part





# 具体明确



## 明确问题

提出具体且明确的问题，确保GAI能够准确理解并回答问题。



## 背景信息

提供背景信息有助于GAI更好地理解用户需求，并给出更贴合的建议。



## 目标与需求

明确目标和需求，确保GAI能够精准定位答案，提高交互的效率和准确性。



## 分步提问

将大问题分解成小问题，分步提问，有助于更系统地理解问题，并使回答更加清晰和有针对性。



## 保持开放性

保持一定的开放性，询问关于不同选择或建议的优缺点，可以获得更深入和全面的见解。



## 复查和澄清

如果收到的回答有不明白的地方，不要害怕提出进一步的问题来澄清。有效的沟通是双向的，GAI就是为了帮助用户解决问题的。



06

# “通用学术英语写作”课程建 设中提示设计的重点关注

Part





# 国家政策导向的理解

## 关注政策文件

关注党和国家发布的关于高等教育和外语教学的最新政策文件，确保课程目标和内容与国家教育政策保持一致。积极落实国家对立德树人、课程思政的教学要求，注重学生全面素质的提升，满足经济和社会需求。

## 培养创新能力和批判性思维

在课程设计中融入培养学生创新能力和批判性思维的元素，响应国家对高等教育人才培养模式的改革要求。。

# 语言教学理论与方法的理解

## 混合教学模式

采用混合教学模式，结合传统面授教学和在线学习资源，利用教学平台和工具，实现教学活动的多样化和个性化。

## 项目式语言教学

设计以项目为中心的学习活动，鼓励学生通过完成具体的写作任务来提升语言能力和学术写作技能。

## 合作学习

鼓励学生在小组内进行讨论、批评和修改彼此的作品，以促进学习的社会化过程，提高学术写作能力。





## 从宏观到微观

如教学大纲设计，先设计整体方案，然后再设计具体内容。



## 在宏观的背景下关注微观

不能脱离宏观与整体关注微观。



## 提示的修订与迭代

包括局部修订与整体修订，如果涉及总体修订，可能需要从头再来。

# 优质课程必须具备的特点

## 明确学习目标

基于学生需要和课程目标，设定清晰、可量化的学习成果，使学生明确学习方向和目标。

## 有效评估机制

设计包括同行评审、自我评估和教师反馈在内的多元化评估体系，及时反馈学生的学习进展和成果。

## 丰富学习资源

提供多样化的学习材料，满足不同学习风格和需求的学生，是实现优质课程的重要保障。

## 持续课程更新

根据学生反馈、教学效果评估和最新教学研究成果，定期更新课程内容和教学方法，保持课程的活力和前瞻性。





07

结语

Part







## 结语



### GAI技术运用

高质量的GAI生成结果不仅取决于高质量的GAI技术，更需要既懂得技术运用，又全面掌握语言和语言教学相关的政策、理论与方法的专业教师。



### 启示与借鉴意义

对基于信息技术的课程改革与教师数字素养提升都有一定的启示和借鉴意义，需要不断学习和提升自己的数字素养。



**THANK YOU**

谢谢!