
Final Semester Project:

OBJECTIVE:

Evaluate both writing and speaking skills through data-driven projects. Emphasis is on the spoken component (70% speaking, 30% writing). These projects are designed to help you analyze data, tell a compelling story, and express your insights clearly in English.

RULES & FORMATS:

- **Individual or Group:**
Projects can be done individually or in groups. In group projects, all members receive the same mark.
- **Formats:**
 - **In Person or Video:** Preferred formats for presentations.
 - **Podcast:** Allowed, though not recommended due to the high level of vocal intonation required.

GENERAL GUIDELINES FOR SUCCESS:

Writing Component (10%):

- Produce a concise, well-structured report (approximately 300–500 words).
- Use formal academic language, precise data citations, and include visual aids (charts, graphs).
- Reference data from reliable sources such as:
 - World Bank: <https://data.worldbank.org>
 - Gapminder: <https://www.gapminder.org/data/>
 - Pew Research Center: <https://www.pewresearch.org>
 - Statista: <https://www.statista.com>

Speaking Component (20%):

- Prepare to speak for 5- to 7-minute each (in-person or video) to clearly explain your analysis.
- Practice your pacing and use discourse markers, etc, (e.g., “Firstly,” “In contrast”) throughout your talk.

Project Ideas for English for Statistics Students

- Integrate visual aids to enhance your delivery and engage your audience. And, remember! Storytelling can help you create a successful presentation.

Project Ideas:

Energy Source Comparison: Global Insights

Task: Compare electricity generation sources (e.g., fossil fuels, renewables, nuclear) in two different countries.

Situation Details:

- Analyze government reports and international energy databases.
- Discuss factors like cost, environmental impact, and sustainability.

Deliverables:

- **Writing:** A 300–500 word report with pie charts and bar graphs.
- **Speaking:** A video or in-person presentation explaining key trends and differences (minimum 5-minute, maximum 7 each person in the team).

Sources & Links:

- World Bank Energy Data: <https://data.worldbank.org/topic/energy-and-mining>
- International Energy Agency: <https://www.iea.org/statistics>

Survey & Analysis: Social Networks and Wellbeing

Task: Design and conduct a survey on the impact of social media on well-being among peers or community members.

Situation Details:

- Prepare a short questionnaire (online tools like Google Forms can be used).
- Interview people face-to-face or virtually about their social media habits and emotional responses.

Project Ideas for English for Statistics Students

- Analyze trends: frequency of use, preferred platforms, and perceived effects (positive or negative).

Deliverables:

- **Writing:** A survey report including data visualizations (e.g., histograms, scatter plots) and interpretation of results.
- **Speaking:** A presentation (video/in-person) summarizing your findings and discussing implications (minimum 5-minute, maximum 7 each person in the team).

Sources & Links:

- Pew Research Center – Social Media Studies: <https://www.pewresearch.org/internet/>
- Google Forms: <https://www.google.com/forms/about/>

Market Share Investigation: Tech Industry Analysis

Task: Investigate the market shares of leading tech products (e.g., smartphones, streaming platforms).

Situation Details:

- Explore recent market reports and trends.
- Compare different brands or services using available statistical data.
- Predict future trends based on current data.

Deliverables:

- **Writing:** A structured report with comparative pie charts and competitor analysis.
- **Speaking:** A live presentation using slides (video or in-person) that highlights market trends and future projections (minimum 5-minute, maximum 7 each person in the team).

Sources & Links:

- Statista – Market Data: <https://www.statista.com>
- TechCrunch: <https://techcrunch.com>

Demographic Trends: Regional Analysis

Task: Analyze population data such as age distribution or population growth for a specific region or city.

Situation Details:

- Use demographic databases to understand growth trends, migration patterns, or aging populations.
- Discuss potential social and economic implications for local policy.

Deliverables:

- **Writing:** A demographic report with clear visualizations and policy recommendations.
- **Speaking:** A 5-minute video presentation explaining the challenges and opportunities based on your analysis.

Sources & Links:

- United Nations Demographic Data: <https://population.un.org/wpp/>
- Data.gov: <https://www.data.gov>

Budget Breakdown: Financial Analysis

Task: Study the budget allocation for a school, NGO, or local government.

Situation Details:

- Research and critique spending priorities and compare them with other institutions.
- Debate the effectiveness and fairness of the budget distribution.

Deliverables:

- **Writing:** A 300–500 word critique with visual aids (charts/graphs) illustrating spending.
- **Speaking:** A debate-style presentation (video/in-person) defending or challenging the budget decisions.

Sources & Links:

- Local Government Budget Reports: <https://www.usa.gov/local-government>

- Open Budget Data: <https://www.openbudgets.eu>

Mathematical Paradoxes on YouTube: Explaining Complex Ideas

Task: Create a YouTube video that explains a mathematical paradox (e.g., the Monty Hall problem or Nash Equilibrium) using statistical analysis.

Situation Details:

- Break down the paradox with clear examples and simulations.
- Use animations or whiteboard explanations to visualize concepts.
- Include interactive elements such as questions or quizzes.

Deliverables:

- **Writing:** A script (300–500 words) that outlines your explanation, data analysis, and references.
- **Speaking:** A video recording that makes the content accessible and engaging to a general audience (minimum 5-minute, maximum 7 each person in the team).

Sources & Links:

- Khan Academy – Game Theory: <https://www.khanacademy.org>
- YouTube – Educational Channels like Numberphile: <https://www.youtube.com/user/numberphile>

Teach the Teacher: Explaining Statistical Concepts

Task: Prepare a lesson in English where you explain a challenging statistical concept (e.g., confidence intervals, hypothesis testing, regression analysis) to your teacher.

Situation Details:

- Develop clear, step-by-step explanations using examples, analogies, and visuals.

Project Ideas for English for Statistics Students

- Simulate a classroom environment where you anticipate questions and address them during the presentation.

Deliverables:

- **Writing:** A detailed lesson plan (300–500 words) with supporting visuals.
- **Speaking:** A video or in-person teaching session, emphasizing clarity and engagement (minimum 5-minute, maximum 7 each person in the team).

Sources & Links:

- MIT OpenCourseWare – Statistics: <https://ocw.mit.edu/courses/statistics/>
- Coursera – Statistical Inference Courses: <https://www.coursera.org>

Evaluation Rubric (30% of Final Mark):

Criteria	Writing (10%)	Speaking (20%)
Content & Accuracy	Clear data interpretation and logical structure (3%)	Depth of analysis and relevance (5%)
Clarity & Organization	Grammar, vocabulary, and formatting (4%)	Fluency, pacing, and logical flow (5%)
Visual Aids	Effective use of charts/graphs (3%)	Good integration of visuals (5%)
Engagement	N/A	Audience interaction, tone, and enthusiasm (5%)

Below is a detailed rubric chart that breaks down each criterion into specific performance levels with assigned points. The rubric is divided into two sections: Writing (10 points) and Speaking (20 points), totaling 30 points (or 30% of the final mark).

Project Ideas for English for Statistics Students

Writing Rubric (10 Points Total)

Students in the Group:

Project Title:

Project Choice: video / in person / podcast

Criteria	Max Points	Poor (0 Point)	Average (1–2 Points)	Good (3 Points)	Excellent (3 or 4* Points)
Content & Accuracy	___ / 3	Data interpretation is inaccurate or missing; structure is very unclear or illogical.	Basic data interpretation is present but lacks clarity or depth; structure is only partially logical.	Mostly clear and accurate interpretation with a logical structure; minor errors may be present.	Provides clear, accurate, and insightful data interpretation with a robust and logical structure.
Clarity & Organization	___ / 4*	Numerous grammatical, vocabulary, and formatting errors that disrupt understanding; organization is lacking.	Some errors in grammar or vocabulary that mildly affect clarity; organization is inconsistent.	Generally clear with few errors; well-organized overall but may have minor lapses in flow or formatting.	Exceptionally clear, error-free, and highly organized; ideas flow logically and coherently.
Visual Aids	___ / 3	Visual aids are absent or poorly chosen, adding little or no value to the written report.	Visual aids are present but are confusing or not well-aligned with the content; limited effectiveness.	Visual aids support the content and are generally well-designed; they enhance understanding, though minor improvements are possible.	Visual aids are expertly selected and seamlessly integrated, greatly enhancing the report's clarity and persuasiveness.

Total Writing Points: ___ / 10

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Speaking Rubric (20 Points Total)	
Students in the Group:	
Project Title:	Project Choice: video / in person / podcast

Criteria	Max Points	Poor (0–1 Point)	Average (2 Points)	Good (3 - 4 Points)	Excellent (5 Points)
Content & Analysis	___ / 5	Analysis is superficial or off-topic; key points are missing or unclear.	Basic analysis is presented with limited depth; may miss some relevant points or connections.	Provides a clear analysis that covers most key points; demonstrates a solid grasp of the subject matter.	Offers in-depth, insightful analysis that covers all key points with exceptional relevance and clarity.
Clarity & Organization	___ / 5	Speech is disorganized, difficult to follow, and frequently interrupted by hesitations or unclear transitions.	Some structure is evident, but the flow is somewhat disjointed or uneven; occasional clarity issues occur.	Generally clear, logically organized, and well-paced; minor issues in fluency or transitions.	Exceptionally fluent, logically structured, and well-paced; ideas are delivered with clarity and ease throughout the speech.
Visual Aids Integration	___ / 5	If used, visual aids are poorly integrated, distracting, or not relevant to the spoken content.	Visual aids are used but in a limited or awkward manner; they add some value but are not well integrated.	Visual aids are effectively incorporated and support the overall presentation; integration is smooth and clear.	Visual aids are seamlessly integrated, significantly enhancing the presentation and aiding audience comprehension.
Engagement	___ / 5	Lacks audience engagement; the speaker's tone is monotone, with minimal or no audience interaction.	Some engagement is evident, but the delivery may be inconsistent; audience interaction is limited.	Generally engaging with appropriate tone and some effective audience interaction; minor improvements needed.	Highly engaging delivery with dynamic tone, excellent audience interaction, and a strong connection with the listeners.

Total Speaking Points: ___ / 20

Happy analyzing and presenting!

How to Use This Rubric:

1. **For Each Criterion:**

You'll be assigned points based on your performance level (Poor, Average, Good, Excellent). For example, in "Content & Accuracy" for Writing (3 points):

- If the work is poor, score between 0 and 1.
- If it's average, score between 1 and 2.
- If it's good, score between 2 and 3.
- For excellent work, award the full 3 points.

2. **Final Mark Calculation:**

Scores from the Writing (10 points total) and Speaking (20 points total) sections will be added to get a combined score out of 30, which represents 30% of the final course mark.

This detailed rubric clearly distinguishes performance levels and provides constructive feedback, helping you understand specific areas for improvement.

Additional Tips for Success:

1. **Research Thoroughly:** Utilize online data repositories and academic journals for up-to-date statistics.
2. **Practice Delivery:** Rehearse your presentation multiple times, preferably with peer feedback.
3. **Emphasize Clarity:** Both your written and spoken components should be clear, concise, and accessible.
4. **Be Creative:** Use multimedia tools like Canva or PowerPoint to enhance your visual aids and storytelling.
5. **Stay Formal:** Maintain an academic tone and structure, avoiding overly casual language in both writing and speaking.