

Assignment 2: Climate Change Research Paper

Objective

Write a comprehensive research paper on a specific aspect of climate change and ecosystems.

Topic Options

Choose one: - Ocean acidification and marine ecosystems - Climate change and forest ecosystems - Polar ecosystem responses to climate change - Climate change and freshwater systems - Phenological changes in ecosystems - Climate change and species extinctions

Paper Requirements

1. Introduction (15 points)

- Background on climate change
- Specific focus area
- Research questions
- Thesis statement

2. Literature Review (25 points)

- Current scientific understanding
- Key research findings
- Conflicting viewpoints
- Research gaps
- Recent developments

3. Methods/Approach (15 points)

- How research was conducted
- Data sources used
- Analysis methods

- Limitations

4. Results/Analysis (20 points)

- Key findings
- Data presentation
- Trend analysis
- Case studies
- Supporting evidence

5. Discussion (15 points)

- Interpretation of results
- Implications for ecosystems
- Future projections
- Uncertainties
- Broader significance

6. Conclusion (10 points)

- Summary of findings
- Main conclusions
- Recommendations
- Future research needs

Research Requirements

- Minimum 8 peer-reviewed sources
- Recent research (within 5 years)
- Proper citations (APA format)
- 10-12 pages, double-spaced
- Professional writing style

Additional Components

- Abstract (250 words)
- Reference list
- Figures/tables as needed
- Appendix if relevant

Submission

Submit via Canvas by due date. Include all components.