

# AST5770 Evaluation guidelines for the final project assignment

UIO - S. Wedemeyer  
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	Category*	Contribution to overall score
Points in separate categories	Overall	30%
	Presentation and argumentation	30%
	Content of the individual sections	30%
	Writing and format	10%
<b>Total Score</b>		<b>100%</b>

\* See below for details on the individual categories and multipliers.

Multipliers on total score *	Plagiarism	1.0 if no plagiarism
	Word count	1.0 if within request word count limits

**Final score = Total Score x Plagiarism multiplier x Word count multiplier → 0 - 100 points\*\***

\*\* Points are rounded up to the next full integer number (e.g.: 82.3 → 83)

Final grade	Grade	From (points)	To (points)
	A	92	100
	B	77	91
	C	58	76
	D	46	57
	E	40	45
	F	0	39

Requirements	
<b>Form and content</b>	<p>The final project assignment should be a consistent and comprehensive text based on the combination of improved and (if adequate) expanded versions of the five mandatory assignments.</p> <p>The aim is <u>not</u> to produce genuinely new scientific results but rather to learn and train how to carry out a small research project including a literature research, data analysis and documentation in a form of a consistent document. It is <u>mandatory</u> to use the provided template with line numbering working correctly. In particular, the format (i.e., font size, margins etc.) must be followed.</p> <p>In case additional data and/or algorithms are used, which are not provided as course material, information of how to access those data and/or routines needs to be provided. In general, it must be ensured that the reviewers of your final project assignment can reproduce and check your results based on the accessible data and routines.</p>
<b>Word count</b>	<b>8 000 - 12 000</b>

## Overall 30%

Overall Effect	Does the article convey a clear and well-supported and argued message?
Organization	Structure of the article, order of material, organisation into sections, subsections etc.
Completeness	Is the address topic presented in a way that appears complete within the chosen scope or are there clear gaps that remain unaddressed?
Reproducibility	Would a reader with access to the same data, resources, and skills in principle be able to reproduce the results presented in the article based on the information that is provided?

## Presentation and argumentation 30%

Argumentation	Quality of argumentation: Soundness, conciseness, relevance, depth, breadth and number of arguments. Good argumentation should be easy to follow and consist of a logical and convincing chain of solid arguments.
Professionalism	Professional use of clear evidence, references and robust statements. Statements are objectively inferred and motivated and not opinion-based.
Accuracy	Results, statements, and conclusions are accurate and free of errors. Limitations are clearly stated.
Citations	Appropriate credits for ideas and results are given by citing adequate references. The use of others' ideas and material is clearly and unmistakably stated by providing the original source.
References	An adequate number of references is given (here ideally >20) in support of argumentation and as source for others' ideas and employed methods and data.
Figures	An adequate number of well-prepared figures of good quality with adequate captions that describe all graphical elements are included. The figures are clearly connected to the main text and support and illustrate the described content.

## Content of the individual sections\*\*\* 30%

Title & Abstract Page	Meaningful title; The abstract should be concise and comprehensive and clearly communicate the essence of the article.
Introduction	Introduces the topic of your work and puts it into of the current state of knowledge in the field, motivation and leading to the addressed scientific question and how the presented work contributes towards answering it. An overview of the structure and content of the paper is provided. The introduction stays concise and balanced and should not be expanded into a complete review over many pages.
Data & Method	A description of the data set(s) and methods used in the study to a level of detail that would allow any reader with access to the described data, methods and resources to reproduce the results (reproducibility!). Addresses how data was obtained/produced (e.g., instrumentation/code, observational/numerical technique), processed (if applicable: e.g., post-processing/adjustment incl. noise reduction, rescaling, filtering etc.), analysed (analysis steps that are central for the presented data analysis). The choice of data with respect to the scientific aim should also be evident.
Analysis & Results	Detailed but yet focused description of the new results found in this study as derived thorough analysis of the introduced data, using the introduced methods. The presented results should be connected to and supported by good and meaningful figures (and tables if applicable).
Discussion	Thorough interpretation of the new results, setting them into context and comparing them to results in the literature (and possibly complementary data). The limitations (data/methods/analysis) and implications of the study are typically addressed. In case of inconclusive results, the likely reasons for the inconclusiveness (and possibly future mitigation strategies) should be discussed.
Conclusions	The essence and take-away message. The conclusion section is not a complete summary but briefly highlights the most important results and conclusions!

\*\*\* Please see the lecture handouts for more details regarding how the individual sections should be built up and what content is expected. Please also see regular journal articles for guidance and inspiration.

## Writing and format 10%

Writing Style	Well-formulated text with a formal, professional tone (and no colloquial language), suitable for journal publication with a
Conciseness	Concise, accurate and to the point, finding the right balance between level of detail and number of words.
Format & Appearance	Formal appearance including the use the template with correct font, font size, line spacing, and border areas. The overall layout (placement of figures and tables) should look professional.
Spelling, Grammar, and Punctuation	Well written text with no (insignificant number of) grammatical, punctuation and spelling errors. Easy and interesting reading text with clear evidence of regular revision and proofing.

## Multipliers

Multiplication factor	0.0	0.5	0.7	1.0
<b>Plagiarism - Integrity</b>	Essay clearly plagiarized; no citation provided at all. (0X) Proven plagiarism has additional consequences.	Essentially plagiarized; large amounts of direct quoting even though reference(s) provided. (0.5X)	Essay not far from plagiarized; mere rearrangement of words; no evidence of own creativity. (0.7X)	Clearly work of the student who makes appropriate use of references and citations. (1X)
<b>Word count</b>	Word count 50% or less of required minimum OR word count 50% or more above required maximum. (0X)	Word count less at least 70% of required minimum OR word count at most 30% more above required maximum. (0.5X)	Word count less at least 90% of required minimum OR word count at most 10% more above required maximum. (0.7X)	Word count within the required range (minimum - maximum). (1X)