Syllabus Addendum for Calculus II Honors Project and Honors Credit

Requirements

In order to receive honors credit for a course a student must satisfactorily complete additional work with the following elements: research, analysis, and a presentation. The honors work includes:

1. Conduct independent research into the history of calculus to derive specific properties and formulas, such as the product rule for derivatives.
2. These derivations will be explained thoroughly in an essay. The final version of the essay will contain:
   1. Abstract – A short summary of what will be discussed in the paper and presentation.
   2. Introduction – a paragraph explaining the contents upcoming in the essay.
   3. Body –
      1. Discuss and demonstrate the derivations researched. Be sure to state the motivation behind each method and explain how and why the mathematics is used in the context.
      2. Examples should be provided of the mathematics, either through empirical experiments or theoretical scenarios.
      3. For all outside sources and citations, APA should be utilized.
   4. Conclusion – a paragraph reviewing the derivations presented in the paper.
3. A presentation to demonstrate knowledge of the derivations and research. The presentation will be to the instructor and possibly two other faculty members.
   1. The presentation should be at approximately five to ten minutes in length.
   2. The student is expected to demonstrate an understanding of the concepts presented in the paper.
   3. The student will utilize a visual aid during the presentation, such as a PowerPoint or the whiteboard.
   4. The student will answer questions posed by the instructor(s) present.

Subject Area for XXXXXXXXXXXXX Honors Project

In conversation, the student displayed a passion for discovering how calculus was created.

Deliverable Timeline

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| Meeting 1: | 03/23/2023 | Progress Discussion: where research is presented to the instructor. |
| Meeting 2: | 04/13/2023 | Rough Draft Due |
| Meeting 3: | 04/20/2023 | Final Draft Due |
| Meeting 4: | Prior to 05/01/2023 | Presentation to Instructor(s) |

Successful Completion of Honors Option

A letter of grade of “B” or better is required within the standard work of the course, as per the honors contract. In addition, the student must complete the presentation and paper as explained above by, at minimum, meeting the letter of the requirements detailed.