

MONTGOMERY COLLEGE - Germantown Campus**Mathematics & Statistics Department****Course Syllabus****I. Instructor Information**

See Syllabus for MATH181 Calculus I CRN 21318

II. General Course Information

Calculus I Honors Module – MATH181HM (Attached to MATH181)

HONORS ELIGIBILITY:

- SAT score of 600 or above on each section
OR
- Completion of at least 12 Montgomery College credits
- Cumulative 3.4 grade point average or higher
- Grade of A or B in ENGL 101/011 or Eligible for ENGL 102

Fall 2022

MATH 181 HM CRN 24777

Attached to MATH181 CRN 21318

III. Grading**A. Requirements**

1. The student will complete one full-length or two mini “Primary Source Projects” (PSPs) in consultation with the instructor from these two repositories:
 - Transforming Instruction in Undergraduate Mathematics via Primary Historical Sources (TRIUMPHS)
<https://blogs.ursinus.edu/triumphs/>
 - Learning Discrete Mathematics and Computer Science via Primary Historical Sources <https://www.cs.nmsu.edu/historical-projects/>

Note: Students are not limited to topics within calculus.

2. The student will learn the basics of typesetting in LaTeX using Overleaf (<https://www.overleaf.com/>). Each PSP’s tasks and exercises must be typeset in LaTeX and students must submit both the .tex file and the compiled .pdf file.
3. The student will create a 15-20 minute presentation along with an annotated bibliography based on their PSP(s). The presentation will be delivered during the last week of classes.

B. Honors Coursework Schedule

| Date | Honors Coursework due |
|------------------------|---|
| Fri 9/9 | Selection of PSP's |
| Fri 9/16 | PSP Check-in 1 |
| Fri 9/30 | PSP Check-in 2 |
| Fri 10/14 | PSP Check-in 3 |
| Fri 10/28 | PSP Check-in 4 |
| Fri 11/11 | Presentation & Bibliography – first draft |
| Tue 11/22 | Presentation & Bibliography – second draft |
| Fri 12/2 | Presentation & Bibliography – final draft Presentation rehearsal |
| Mon 12/5 - Fri 12/9 | Presentation Delivery |
| Sat 12/17 | PSP write-ups, Presentation & Bibliography – final draft |

C. Honors Module Grade

In addition to the regular course standards, final letter grades will be determined according to this rubric including the honors coursework:

| Core Standards | All Standards (Core and Elective) | Honors Coursework | Final Grade |
|------------------|------------------------------------|--|-------------|
| Mastery on all | Average score is 3.5 or above | Complete and satisfactory Or Partially complete and satisfactory | A |
| Mastery on all | Average score is 3.5 or above | Unsatisfactory | B |
| Mastery on all | Average score is between 3 and 3.5 | Complete and satisfactory | A |
| Mastery on all | Average score is between 3 and 3.5 | Partially complete and satisfactory | B |
| Mastery on all | Average score is between 3 and 3.5 | Unsatisfactory | C |
| Mastery on all | Average score is below 3 | Complete and satisfactory | B |
| Mastery on all | Average score is below 3 | Partially complete and satisfactory Or Unsatisfactory | C |
| Not all mastered | Average score is 2 or above | Not applicable | D |
| Not all mastered | Average score is below 2 | Not applicable | F |

Honors coursework rubric:

| | |
|---------------------------|---|
| Primary Source Project(s) | <p>Complete and satisfactory work means student completed all tasks within the selected project(s) and typeset the answers in LaTeX, submitting both the .tex and .pdf files.</p> <p>Partially complete and satisfactory work means student completed most tasks within the selected project(s) and made a good faith effort at typesetting the answers in LaTeX.</p> <p>All work below the level described above would be unsatisfactory.</p> |
| Presentation | <p>Complete and satisfactory work means student met with the professor to discuss drafts of the presentation, practiced delivering the presentation, and successfully delivered the presentation at the appointed time.</p> <p>Partially complete and satisfactory work means student did not turn in drafts of the presentation or did not make revisions as requested but still delivered the presentation.</p> <p>All work below the level described above would be unsatisfactory.</p> |
| Annotated Bibliography | <p>Complete and satisfactory work means student correctly cited all sources used in the presentation in APA format and provided annotation for each source.</p> <p>Partially complete and satisfactory work means student cited all sources used in the presentation but made mistakes in the format and/or failed to annotate each source.</p> <p>All work below the level described above would be unsatisfactory.</p> |

The professor reserves the right to make changes to this syllabus.

Last Updated September 1, 2022