

Minor Modifications in Math 102 Syllabus for the Term 162

To compensate the two lost lectures, please note the following changes to the content of the course (Materials not mentioned stay the same):

Section 11.3: Estimating the Sum of a Series (Page 723 to the end of the section) may not be covered.

Section 11.5: Estimating Sums (Page 735) may not be covered.

Section 11.7: Instructors need not spend time on this section (It is merely review of 11.3 – 11.6).

Section 11.10:

- Note that the Remainder Theorem is not part of the course.
- Students must know the power series representation of 3 functions only, namely,

$$1/(1-x), \quad e^x [\exp(x)], \quad \sin x$$

and their applications, e.g., PSR of

$$1/(5+3x^2), \quad \ln x, \quad \tan^{-1}x, \quad \exp(-4x^3), \quad \sin(3x^2).$$

- No need for the students to memorize the formula for binomial series
- Division of power series may not be covered.

Material to be addressed in the Final Exam: (NEW)

- The final exam will be comprehensive.
- Concerning the material already covered in Exams 1 & 2, students may focus on the following sections of the Textbook
 - 5.3 (Fundamental Theorem of Calculus),
 - 5.5 (the Substitution Rule),
 - 6.1 (Areas between curves),

- Chapter 7 (excluding Exercise 59 (the substitution $t=\tan(x/2)$ of sec 7.4).