Transferring From 135 to 152

152 is the second Calculus course for students who completed 151. If you wish to take 152 after the completion of 135, you will need to take extra steps to insure your success in 152.

- Get familiar with workshop writing. Look at pages 5-9 at the first pages of your 152 book that describing Calculus at Rutgers.

- Study the material that is listed below.
  This material was most likely not covered (or was not emphasized enough) in your 135 course. The pages and problems are from your 135 Kendall Hunt book.

1. **Inverse Functions, Inverse Trigonometric Functions and their Derivatives**

- Read pages 51 – 59, 186-187
- Watch the tutorial video on inverse trigonometric functions that is posted on 152 course SAKAI.
- Do the following problems: From pages 59- 60: 3, 8, 21, 25, 26, 29, 30, 32. From page 190: 15, 16, 17, 20, 21, 29.

2. **The Formal Definition of a Limit.**

- Read pages 80-82 (you may skip example 10).

3. **The Indeterminate Forms $\mathbf{1^{\infty}}$ $\mathbf{.0^{0}}$, $\mathbf{\infty^{0}}$.**

- Read pages 277 – 279 (till example 13).
- Do the following problems from page 280: 27, 28, 30.

4. Summation Notation

- Read from the bottom of page 338 – 340 (no example 2).
- Do the following problems from page 342: 3, 4, 6, 7, 13, 14, 16.

5. Antiderivative of Inverse Trigonometric Functions

- Make sure you know all the antiderivatives that are listed on page 328.
- Do the following problems from page 334: 15, 16.

6. Area Between Curves

For this topic, you must use the 152 book.

- Read from the 152 book pages 357- 361.
- Do the following problems from Page 363: 27, 28, 29, 30.

7. Hyperbolic Functions

- Study the handout on Hyperbolic Functions that is posted on 152 course SAKAI.

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