

## MATH V1102, WEEKLY SYLLABUS

Week	Topic	Textbook
1: 09/08 – 09/10	Review of prerequisites; Integration by Parts	5.1–5.5;7.1
2: 09/15 – 09/17	Trigonometric Integrals; Trig Substitution	7.2, 7.3
3: 09/22 – 09/24	Partial Fractions	7.4
4: 09/29 – 10/01	Computing integrals; Review for Midterm	7.5
5: 10/6 – 10/08	Improper Integrals; Midterm 1	7.8
6: 10/13 – 10/15	Improper Integrals; Arc Length; Surface Area of Solids of Revolution	7.8,8.1,8.2
7: 10/20 – 10/22	Sequences; Series	11.1,11.2
8: 10/27 – 10/29	Integral Test; Comparison Test	11.3,11.4
9: 11/03– 11/05	Alternating Series	11.5
10: 11/10 – 11/12	Review; Midterm 2	–
11: 11/17 – 11/19	Absolute convergence, Ratio and Root tests	11.6,11.8
12: 11/24 – 11/26	Power Series	11.9
13: 12/01 – 12/03	Taylor Series	11.10
14: 12/08 – 12/10	Applications of Taylor Series	11.11

**Important Dates:**

**Sep. 18:** End of Change of Program Period; Last Day to Add a Class; Last Day to Receive Tuition Refund for Class Dropped

**Oct. 8:** Midterm 1

**Oct. 13:** Last Day to Drop a Class for Barnard, Columbia College, General Studies, SIPA, GSAS, and Continuing Education

**Nov. 3:** Election Day. University Holiday.

**Nov. 12:** Midterm 2.

**Nov. 19:** Last Day to Drop a Class for Schools not otherwise noted above. Last

day for pass/fail option.

**Nov. 26:** Thanksgiving. University Holiday.

**Suggested Problems by Section:**

**7.1:** 1,6,9,15,20,23,29,34,38, 43,47,48,52,63,62,65

**7.2:** 2,12,13,26,30,31,38, 45,47,56,66-70

**7.3:** 1,4,12,18,19,22,25, 27,34,35,40

**7.4:** 2,5,7,12,16,23,34,35, 41,44,45,48,51,55,57,58,65

**7.7:** 1,2,10,15,16,19,22, 26,27,30,32,33,38,42-4

**7.8:** 1,2,6,13,19,21,30,35, 36,49,50,54,57-9,61-2,71

**8.1:** 2,3,6,8,10,13,17, 25,26,31,37

**8.2:** 1,4,6,9,14-16,25,28

**11.1:** 1,2,3,6,8,9,13,15,19,21, 28,36,43,59,62,67,68,81

**11.2:** 1,9,14,16,23,28,29,30, 35,42,47,72,73

**11.3:** 4,5,8,9,11,14,16,20, 21,24,25,27,31

**11.4:** 1,2,4,7,9,14,18,19,24, 28,31,34,35,37,38

**11.5:** 1,3,6,12,15,17, 21,32-35

**11.6:** 2,5,7,8,9,11,12, 17,21,29,30,31,38

**11.8:** 2,3,7,10,13,15,22, 24,29,30,33

**11.9:** 1,3,6,8,11,13,14,15, 22,24,29,30,33

**11.10:** 4-6,8,10,13,27,30,32, 35,37,47,49,64

**11.11:** 33,35,36