

Day	Date	Section	Topic/Homework
1-M	1/8		Policy and Logistics <i>Diagnostic Test</i>
1-W	1/10		NO CLASS TODAY <i>Class will be made up as a pre-test review session.</i>
1-R	1/11		NO CLASS TODAY <i>Class will be made up as a pre-test review session.</i>
1-F	1/12		NO CLASS TODAY <i>Class will be made up as a pre-test review session.</i>
2-M	1/15		MARTIN LUTHER KING, JR. DAY
2-W	1/17	7.1	One-to-One Functions; Inverses 3, 4, 8, 13, 16, 18, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 35, 37, 38, 40, 41, 43, 44, 46, 49, 54, 58, 59.
2-R	1/18	7.2	<i>(No quiz today; pictures taken.)</i> The Logarithm Function, Part I 1 (do this block without a calculator using only the table and rules of logs), 4, 5, 6, 8, 9, 12, 14, 18, 19, 20, 21, 22, 23, 25ab, 27, 28, 29, 31.
2-F	1/19	7.2, 7.3	Finish 7.2 homework, start 7.3 homework.
3-M	1/22	7.3	The Logarithm Function, Part II 3, 4, 7, 8, 11, 14, 17, 18, 19, 24, 27, 29, 33, 34, 36, 42, 44, 47, 48, 50, 51, 54, 55, 57, 59, 61, 63, 66, 67, 69, 70, 76, 78, 81, 82.
3-W	1/24	7.4	The Exponential Function 3, 4, 5, 6, 9, 10, 11, 16, 17, 19 (use algebra first), 20 (use algebra first), 21, 22, 26, 27, 29, 31, 33, 34, 35, 36, 41, 42, 45, 48, 50, 52, 56, 60, 61, 66, 67, 68, 72 (see hint), 73 (see hint), 77, 78.
3-R	1/25	Quiz	Quiz 1: 7.1, 7.2, 7.3 Problem session will follow quiz.
3-F	1/26	7.5	Arbitrary Powers; Other Bases 1 (no calculator for this block), 2, 4, 5, 6, 8, 9 (use 7.5.9 and rules for $\ln x$ for this block), 11, 12, 13, 15, 16, 19, 20, 21, 23, 26, 29, 30, 33, 34, 35, 36 (use 7.5.9), 39, 41 (take \ln of both sides and use algebra and implicit differentiation), 43, 44, 45, 46, 49, 53, 54, 56, 57, 58, 59, 62, 63, 65, 67, 68 (by calculator and then exactly), 69 (ditto).
4-M	1/29	7.6	Exponential Growth and Decay 1, 2, 3, 5, 6, 7, 9, 10, 11, 12, 13, 15, 16, 17, 18, 21, 23, 24, 29.
4-W	1/31	7.6, 7.7	Finish 7.6 homework, start 7.7 homework.
4-R	2/1	Quiz	Quiz 2: 7.4, 7.5, 7.6 Problem session will follow quiz.
4-F	2/2	7.7	The Inverse Trigonometric Functions 1, 2, 3, 4, 7, 10, 12, 15, 17, 20, 21, 22, 27, 28, 30, 34, 35, 37, 38, 46 (“verify” means “prove”), 47, 48, 50, 53, 54, 55, 56, 57, 60, 63, 64, 65, 68, 69, 72, 75, 76, 78.

Day	Date	Section	Topic/Homework
5-M	2/5	7.8	The Hyperbolic Sine and Cosine 1, 5, 8, 12, 13, 14, 17, 18, 19 (“verify” means “prove”), 20, 22, 24, 25, 27, 28, 30, 31, 33, 36, 37, 40, 42, 43, 45, 47, 48.
5-W	2/7	7.9	The Other Hyperbolic Functions 1, 3, 4, 5, 10, 11, 12, 13, 15, 18, 19, 21, 22, 25, 26, 27, 30, 31, 32, 33, 35, 36, 37, 38.
		<i>Review</i>	<i>Wednesday Evening Review Session for Test I</i> <i>6:30-8:00 p.m.</i>
5-R	2/8	TEST	***** TEST I (7.1–7.8) *****
5-F	2/9	8.1	Integral Tables and Review 1, 4, 5, 6, 7, 9, 10, 12, 13, 18, 20, 21, 22, 23, 24, 25, 26, 30, 31, 33, 35, 37, 38, 40, 41, 44, 47, 50, 54.
6-M	2/12	8.2	Integration by Parts 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 16, 17, 18, 19, 20, 23, 24, 25, 28, 29, 30, 31, 33, 35, 38, 39, 41, 42, 42, 48, 50, 52, 60, 61.
6-W	2/14	8.3	Powers and Products of Trigonometric Functions 1, 3, 6, 7, 8, 10, 11, 13, 15, 17, 20, 21, 25, 27, 29, 32, 33, 40, 45, 47, 48, 49, 51, 55, 61, 65.
6-R	2/15	Quiz	Quiz 3: 8.1, 8.2 Problem session will follow quiz.
6-F	2/16	8.4	Trigonometric Substitution 2, 3, 4, 5, 6, 7, 8, 10, 13, 15, 17, 18, 23, 24, 28, 29, 32, 33, 37, 39, 40, 41, 42, 43, 44, 45.
7-M	2/19	8.5	Partial Fractions 1, 2, 3, 4, 5, 6, 8, 9, 11, 12, 13, 16, 17, 18, 19, 21, 22, 24, 27, 31, 32, 33, 39, 41, 48 (use parts, then partial fractions).
7-W	2/21	8.6	Some Rationalizing Substitutions 1, 2, 3, 4, 6, 8, 9, 11, 12, 14, 15, 16, 17, 19, 31, 32, 36.
7-R	2/22	Quiz	Quiz 4: 8.3, 8.4, 8.5 Problem session will follow quiz.
7-F	2/23	handout	Integration Review <i>Do all problems on handout.</i>
8-M	2/26	8.7	Numerical Integration 1abcd, 2ab, 3abcd, 7ab, 8ab, 9a, 10ab, 13a, 15a, 19a, 21a, 22a, 24.
8-W	2/28	8.8	Differential Equations; First-Order Linear Equations 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 14, 15, 16, 19, 20, 21, 23, 24, 25, 27, 29, 30, 33, 34, 35, 36.
8-R	3/1	Quiz	Quiz 5: 8.6, 8.7, integration handout Problem session will follow quiz.
8-F	3/2	8.8, 8.9	Finish 8.8 homework, start 8.9 homework.

Day	Date	Section	Topic/Homework
9-M	3/5		SPRING BREAK
9-W	3/7		SPRING BREAK
9-R	3/8		SPRING BREAK
9-F	3/9		SPRING BREAK
10-M	3/12	8.9	Separable Equations 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 26, 29, 30 (don't solve the D.E.).
10-W	3/14	handout	Differential Equation and Integration Review Do all problems on handout.
		<i>Review</i>	<i>Wednesday Evening Review Session for Test II</i> <i>6:30-8:00 p.m.</i>
10-R	3/15	TEST	***** TEST II (7.9-8.9) *****
10-F	3/16	10.1	The Least Upper Bound Axiom 1, 2, 3, 4, 6, 7, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 25, 27, 28, 33.
11-M	3/19	10.2	Sequences of Real Numbers 1, 2, 3, 4, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 21, 25, 26, 27, 30, 32, 33, 36, 38, 41, 45, 46, 47, 49, 50, 52, 54, 57, 58, 60, 61, 62.
11-W	3/21	10.3	Limit of a Sequence 1, 2, 4, 5, 6, 8, 10, 12, 13, 14, 16, 17, 18, 21, 22, 25, 28, 29, 30, 31, 32, 33, 36, 37, 40, 46, 51, 52, 53, 59, 62, 64, 66.
11-R	3/22	Quiz	Quiz 6: 10.1, 10.2 Problem session will follow quiz.
11-F	3/23	10.4	Some Important Limits 1 (point out which limits you are using from the reading in this block), 3, 4, 5, 6, 7, 10, 11, 12, 14, 15, 16, 17, 19, 21, 24, 26, 31, 33, 34, 37 (try using the conjugate), 38, 41.
12-M	3/26	10.5	The Indeterminate Form $\frac{0}{0}$ 1, 2, 4, 5, 7, 10, 11, 12, 16, 17, 20, 21, 22, 23, 24, 25, 27, 31, 32, 34, 35, 37, 41, 45, 46, 47.
12-W	3/28	10.6	The Indeterminate Form $\frac{\infty}{\infty}$; Other Indeterminate Forms 1, 2, 3, 6, 8, 9, 12, 13, 14, 17, 19, 21, 24, 25, 27, 28, 31, 33, 34, 35, 36, 37, 38, 43, 44, 47, 53.
12-R	3/29	Quiz	Quiz 7: 10.3, 10.4, 10.5 Problem session will follow quiz.
12-F	3/30	handout, 10.7	Sequence and Limit Review Do all problems on handout. Start 10.7 homework.

Day	Date	Section	Topic/Homework
13-M	4/2	10.7	Improper Integrals 1, 2, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 19, 20, 21, 23, 24, 25, 27, 30, 32, 33, 35, 37, 38, 39, 40, 44 (use a comparison for part (b)), 47, 48 (compare with e^{-x}), 50, 51 (hint: $\ln x < \sqrt{x}$), 52 (hint: $\ln x < \ln(x+1)$).
13-W	4/4	11.1	Infinite Series 1, 5, 6, 7, 8, 9, 10, 12, 14, 15, 16, 17, 18, 20, 21 (break up the sums in this block), 23, 24, 25 (look at $\lim_{n \rightarrow \infty} s_n$), 26 (use partial fractions), 27, 29, 30, 31, 33, 34, 35, 36, 37, 38 (.9999... = 1?!?! yes!), 42, 45, 46, 47, 50, 51, 52, 53, 55, 59, 60 (is this a contradiction?), 64, 67 (use properties of logs and look at s_n).
13-R	4/5	Quiz	Quiz 8: 10.6, sequence and limit handout, 10.7 Problem session will follow quiz.
13-F	4/6	11.2	The Integral Test; Comparison Theorems 1, 2, 3, 4, 5, 7 (use limit comparison with $\frac{1}{k}$), 8, 9, 11, 12, 13, 15, 16, 17, 18, 19 (use limit comparison with $\frac{1}{k^2}$), 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 35 (use integral test), 39 (read instructions), 40, 41, 42.
14-M	4/9	11.3	The Root Test; The Ratio Test 1, 2, 3, 5, 6, 7, 8, 9, 11, 12, 13, 14, 16, 17, 18, 19, 21 (think about e), 22, 24, 25, 26, 28, 30, 31, 33, 34, 35, 37, 38, 39, 40, 42, 43, 46 (use root test).
14-W	4/11	11.4	Absolute and Conditional Convergence; Alternating Series 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 17, 19, 20, 21, 22, 23 (think of $\frac{\sin u}{u}$), 24, 25, 26, 28, 32, 33, 34, 35, 36, 37, 38, 39, 41, 44, 46.
14-R	4/12	Quiz	Quiz 9: 11.2, 11.2, 11.3 Problem session will follow quiz.
14-F	4/13	handout	Series Review Do all problems on handout.
15-M	4/16	11.5	Taylor Polynomials and Taylor Series in x 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 17, 18, 20, 21, 25, 26, 28, 29, 31, 33, 36, 37, 39, 41, 42, 43, 45, 46, 48, 53, 56, 57.
15-W	4/18	11.5, 11.6	Finish 11.5 homework, start 11.6 homework. <i>Review</i> <i>Wednesday Evening Review Session for Test III</i> <i>6:30-8:00 p.m.</i>
10-R	3/15	TEST	***** TEST III (10.1-11.4) *****
15-F	4/20	11.6	Taylor Polynomials and Series in $x - a$ 1, 2, 4, 5, 7, 8, 10 (use geometric series), 14, 15 (use $\sin x = \sin((x - \pi) + \pi)$ and a trig identity), 16 (use $\sin x = \cos(x - \frac{\pi}{2})$), 17, 20 (use 11.6.1), 21, 23, 24, 25 (use 11.5.6), 27, 28, 31, 32, 37 (you must choose an appropriate a).

Day	Date	Section	Topic/Homework
16-M	4/23	11.7	Power Series 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 22, 23, 25, 27, 28, 30, 33, 34, 37, 38, 39, 40, 42 (let $u = x + 2$ and use 11.7.2).
16-W	4/25	11.8	Differentiation and Integration of Power Series 1, 2, 4, 5, 6 (note $2 - 3x = 2(1 - \frac{3}{2}x)$), 7, 8 (see 7.3.6), 9 (use 11.5.4), 10, 11, 12, 13, 14 (split into two fractions), 16 (use definition of $\sinh x$), 17, 21, 23, 24, 25, 27, 28, 29, 30, 31, 32, 34, 41, 42, 43, 46, 50, 51, 52, 53.
16-R	4/26	Quiz	Quiz 10: 11.5, 11.6, 11.7 Problem session will follow quiz.
16-F	4/28	last day	<i>Final Exam Information</i> <i>Course Evaluations</i> <i>Suprise Lecture and Math Party</i>
17-S	4/29	<i>Review</i>	<i>Sunday Afternoon Review Session for Final Exam</i> <i>12:00-1:30 p.m.</i>
17-M	4/30	FINAL	Comprehensive Final Exam for section 03 (the 11:15 section). Exam Time: Monday, 10:30 a.m. - 12:30 p.m.
17-F	5/4	FINAL	Comprehensive Final Exam for section 05 (the 1:25 section). Exam Time: Friday, 10:30 a.m. - 12:30 p.m.

Class Website: <http://www.math.jmu.edu/~taal/236.html>

Office Hours: 2:30-4:30 p.m. Mondays (Burruss 115),
6:00-7:30 p.m. Wednesdays (Burruss 034 or check Burruss 115).