















































with Petr on [Petr's Zoom](https://utoronto.zoom.us/j/95837717811)  [\(https://utoronto.zoom.us/j/95837717811\)](https://utoronto.zoom.us/j/95837717811) (password vchat).






**Recordings.** For student privacy reasons, you are NOT allowed to record classes, tutorials, and/or office hours. "Official" class recordings showing only the instructors will be made available promptly.

**Text.** Our primary text will be "Little Spivak" - M. Spivak, *Calculus on Manifolds*. See more at [About This Class](https://q.utoronto.ca/courses/183900/pages/about-this-class) [\(https://q.utoronto.ca/courses/183900/pages/about-this-class\)](https://q.utoronto.ca/courses/183900/pages/about-this-class).

















## Course Calendar


#	Week of ...	
0	August 31	Class Social on Monday at 9 at <a href="https://gather.town/vUrHft2R9fBjSraE/mat257">gather.town</a>  <a href="https://gather.town/vUrHft2R9fBjSraE/mat257">(https://gather.town/vUrHft2R9fBjSraE/mat257)</a> .
1	September 7	<p>UofT classes begin on Thursday September 10 and our first class is on Friday September 11. Tutorials will only start next week.</p> <p>Handout: <a href="https://q.utoronto.ca/courses/183900/pages/about-this-class">About This Class</a> <a href="https://q.utoronto.ca/courses/183900/pages/about-this-class">(https://q.utoronto.ca/courses/183900/pages/about-this-class)</a>.</p> <p>Friday's class - class introduction, review of inner products. Videos: <a href="https://play.library.utoronto.ca/play/f2fdf5e699ae26d0541b8acdf00692d">SD</a>  <a href="https://play.library.utoronto.ca/play/f2fdf5e699ae26d0541b8acdf00692d"> (https://play.library.utoronto.ca/play/f2fdf5e699ae26d0541b8acdf00692d)</a>  <a href="https://play.library.utoronto.ca/play/f2fdf5e699ae26d0541b8acdf00692d/download?download_frd=1"> (https://play.library.utoronto.ca/play/f2fdf5e699ae26d0541b8acdf00692d/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/play/98f9b560625e2bb8222a2254b223fc28">HD</a>  <a href="https://play.library.utoronto.ca/play/98f9b560625e2bb8222a2254b223fc28"> (https://play.library.utoronto.ca/play/98f9b560625e2bb8222a2254b223fc28)</a>  <a href="https://play.library.utoronto.ca/play/98f9b560625e2bb8222a2254b223fc28/download?download_frd=1"> (https://play.library.utoronto.ca/play/98f9b560625e2bb8222a2254b223fc28/download?download_frd=1)</a> .</p>
2	September 14	<p>Monday's class - <a href="https://q.utoronto.ca/courses/183900/pages/about-this-class">About This Class</a> <a href="https://q.utoronto.ca/courses/183900/pages/about-this-class">(https://q.utoronto.ca/courses/183900/pages/about-this-class)</a>, more on inner products. Videos: <a href="https://play.library.utoronto.ca/470d5b608766b7572d1f87fc58a718e2">SD</a>  <a href="https://play.library.utoronto.ca/470d5b608766b7572d1f87fc58a718e2"> (https://play.library.utoronto.ca/470d5b608766b7572d1f87fc58a718e2)</a>  <a href="https://play.library.utoronto.ca/470d5b608766b7572d1f87fc58a718e2/download?download_frd=1"> (https://play.library.utoronto.ca/470d5b608766b7572d1f87fc58a718e2/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/470d5b608766b7572d1f87fc58a718e2">HD</a>  <a href="https://play.library.utoronto.ca/470d5b608766b7572d1f87fc58a718e2"> (https://play.library.utoronto.ca/470d5b608766b7572d1f87fc58a718e2)</a>  <a href="https://play.library.utoronto.ca/470d5b608766b7572d1f87fc58a718e2/download?download_frd=1"> (https://play.library.utoronto.ca/470d5b608766b7572d1f87fc58a718e2/download?download_frd=1)</a> .</p> <p>Class Social on Monday at 4 at <a href="https://gather.town/vUrHft2R9fBjSraE/mat257">gather.town</a>  <a href="https://gather.town/vUrHft2R9fBjSraE/mat257">(https://gather.town/vUrHft2R9fBjSraE/mat257)</a>.</p> <p>Wednesday's class - linear transformations and matrices, open and closed sets. Videos: <a href="https://play.library.utoronto.ca/5b45d79eadbbf59c0f8bd6fc83026510">SD</a>  <a href="https://play.library.utoronto.ca/5b45d79eadbbf59c0f8bd6fc83026510"> (https://play.library.utoronto.ca/5b45d79eadbbf59c0f8bd6fc83026510)</a>  <a href="https://play.library.utoronto.ca/5b45d79eadbbf59c0f8bd6fc83026510/download?download_frd=1"> (https://play.library.utoronto.ca/5b45d79eadbbf59c0f8bd6fc83026510/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/8c3e94822440b812cdf95a9a93e72eb6">HD</a>  <a href="https://play.library.utoronto.ca/8c3e94822440b812cdf95a9a93e72eb6"> (https://play.library.utoronto.ca/8c3e94822440b812cdf95a9a93e72eb6)</a>  <a href="https://play.library.utoronto.ca/8c3e94822440b812cdf95a9a93e72eb6/download?download_frd=1"> (https://play.library.utoronto.ca/8c3e94822440b812cdf95a9a93e72eb6/download?download_frd=1)</a> .</p> <p>HW1 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW01.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW01.pdf"> (http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW01.pdf)</a> . It was due on Wednesday September 23 at 11:59PM. Solutions sets (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">warning</a> <a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">(https://q.utoronto.ca/courses/183900/pages/solution-sets-warning)</a>): <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW01_Sol_1.pdf">Sol1-1</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW01_Sol_1.pdf"> (http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW01_Sol_1.pdf)</a> .</p> <p>Friday's class - More on open and closed, compactness. Videos: <a href="https://play.library.utoronto.ca/2c178dc6fb5f06f9daee39f694ce8871">SD</a>  <a href="https://play.library.utoronto.ca/2c178dc6fb5f06f9daee39f694ce8871"> (https://play.library.utoronto.ca/2c178dc6fb5f06f9daee39f694ce8871)</a>  <a href="https://play.library.utoronto.ca/2c178dc6fb5f06f9daee39f694ce8871/download?download_frd=1"> (https://play.library.utoronto.ca/2c178dc6fb5f06f9daee39f694ce8871/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/f10abcedea0a3d7fc19c17753e428727">HD</a>  <a href="https://play.library.utoronto.ca/f10abcedea0a3d7fc19c17753e428727"> (https://play.library.utoronto.ca/f10abcedea0a3d7fc19c17753e428727)</a>  .</p>

#	Week of ...	
		<p>(<a href="https://play.library.utoronto.ca/f10abcedea0a3d7fc19c17753e428727/download?download_frd=1">https://play.library.utoronto.ca/f10abcedea0a3d7fc19c17753e428727/download?download_frd=1</a>) .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-200918.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-200918.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-200918.pdf</a>) .</p>
3	September 21	<p>Monday's class - Compactness in <math>\mathbb{R}^n</math>. Videos: <a href="https://play.library.utoronto.ca/aa5f55b8b9adac59cbe3384fec1ecec9">SD</a>  (<a href="https://play.library.utoronto.ca/aa5f55b8b9adac59cbe3384fec1ecec9">https://play.library.utoronto.ca/aa5f55b8b9adac59cbe3384fec1ecec9</a>)  (<a href="https://play.library.utoronto.ca/aa5f55b8b9adac59cbe3384fec1ecec9/download?download_frd=1">https://play.library.utoronto.ca/aa5f55b8b9adac59cbe3384fec1ecec9/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/804b92de6df4d644198a60f81e544629">HD</a>  (<a href="https://play.library.utoronto.ca/804b92de6df4d644198a60f81e544629">https://play.library.utoronto.ca/804b92de6df4d644198a60f81e544629</a>)  (<a href="https://play.library.utoronto.ca/804b92de6df4d644198a60f81e544629/download?download_frd=1">https://play.library.utoronto.ca/804b92de6df4d644198a60f81e544629/download?download_frd=1</a>) .</p> <p>Wednesday's class - Functions and continuity. Videos: <a href="https://play.library.utoronto.ca/c5b78e7930ac4ba823954ae7586d6dcf">SD</a>  (<a href="https://play.library.utoronto.ca/c5b78e7930ac4ba823954ae7586d6dcf">https://play.library.utoronto.ca/c5b78e7930ac4ba823954ae7586d6dcf</a>)  (<a href="https://play.library.utoronto.ca/c5b78e7930ac4ba823954ae7586d6dcf/download?download_frd=1">https://play.library.utoronto.ca/c5b78e7930ac4ba823954ae7586d6dcf/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/29ba1d811d93196975286deb07f3a626">HD</a>  (<a href="https://play.library.utoronto.ca/29ba1d811d93196975286deb07f3a626">https://play.library.utoronto.ca/29ba1d811d93196975286deb07f3a626</a>)  (<a href="https://play.library.utoronto.ca/29ba1d811d93196975286deb07f3a626/download?download_frd=1">https://play.library.utoronto.ca/29ba1d811d93196975286deb07f3a626/download?download_frd=1</a>) .</p> <p>HW2 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW02.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW02.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW02.pdf</a>) . It was due on Wednesday September 30 at 11:59PM. Solutions sets (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">warning</a> (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">https://q.utoronto.ca/courses/183900/pages/solution-sets-warning</a>)): <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW02_Sol_1.pdf">Sol2-1</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW02_Sol_1.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW02_Sol_1.pdf</a>) . HW1 was due this Wednesday at 11:59PM.</p> <p>Friday's class - More on continuity and compactness, start of diffability. Videos: <a href="https://play.library.utoronto.ca/f6b2e5f7460b99626faf08ce1591aade">SD</a>  (<a href="https://play.library.utoronto.ca/f6b2e5f7460b99626faf08ce1591aade">https://play.library.utoronto.ca/f6b2e5f7460b99626faf08ce1591aade</a>)  (<a href="https://play.library.utoronto.ca/f6b2e5f7460b99626faf08ce1591aade/download?download_frd=1">https://play.library.utoronto.ca/f6b2e5f7460b99626faf08ce1591aade/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/c48eec45298275ab64c044e109aa5c52">HD</a>  (<a href="https://play.library.utoronto.ca/c48eec45298275ab64c044e109aa5c52">https://play.library.utoronto.ca/c48eec45298275ab64c044e109aa5c52</a>)  (<a href="https://play.library.utoronto.ca/c48eec45298275ab64c044e109aa5c52/download?download_frd=1">https://play.library.utoronto.ca/c48eec45298275ab64c044e109aa5c52/download?download_frd=1</a>) .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-200925.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-200925.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-200925.pdf</a>) .</p>
4	September 28	<p>Monday's class - The differential and the chain rule. Videos: <a href="https://play.library.utoronto.ca/34e80b5ad80fd6136be5a8105ac9c1b9">SD</a>  (<a href="https://play.library.utoronto.ca/34e80b5ad80fd6136be5a8105ac9c1b9">https://play.library.utoronto.ca/34e80b5ad80fd6136be5a8105ac9c1b9</a>)  (<a href="https://play.library.utoronto.ca/34e80b5ad80fd6136be5a8105ac9c1b9/download?download_frd=1">https://play.library.utoronto.ca/34e80b5ad80fd6136be5a8105ac9c1b9/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/7bf9820892a74b72d656a2d2f2d81c3f">HD</a>  (<a href="https://play.library.utoronto.ca/7bf9820892a74b72d656a2d2f2d81c3f">https://play.library.utoronto.ca/7bf9820892a74b72d656a2d2f2d81c3f</a>)  (<a href="https://play.library.utoronto.ca/7bf9820892a74b72d656a2d2f2d81c3f/download?download_frd=1">https://play.library.utoronto.ca/7bf9820892a74b72d656a2d2f2d81c3f/download?download_frd=1</a>) .</p> <p>Wednesday's class - Proof of the chain rule, some simple examples for the differential. Videos: <a href="https://play.library.utoronto.ca/0a368ea64c957766ed194141527a04c6">SD</a>  (<a href="https://play.library.utoronto.ca/0a368ea64c957766ed194141527a04c6">https://play.library.utoronto.ca/0a368ea64c957766ed194141527a04c6</a>)  (<a href="https://play.library.utoronto.ca/0a368ea64c957766ed194141527a04c6/download?download_frd=1">https://play.library.utoronto.ca/0a368ea64c957766ed194141527a04c6/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/dbabd646954e3ca439448b84283d5b6f">HD</a>  (<a href="https://play.library.utoronto.ca/dbabd646954e3ca439448b84283d5b6f">https://play.library.utoronto.ca/dbabd646954e3ca439448b84283d5b6f</a>)  .</p>

#	Week of ...	
		<p>(<a href="https://play.library.utoronto.ca/dbabd646954e3ca439448b84283d5b6f/download?download_frd=1">https://play.library.utoronto.ca/dbabd646954e3ca439448b84283d5b6f/download?download_frd=1</a>) .</p> <p>HW3 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW03.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW03.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW03.pdf</a>) . It was due on Wednesday October 7 at 11:59PM. Solutions sets (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">warning</a> (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">https://q.utoronto.ca/courses/183900/pages/solution-sets-warning</a>)): <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW03_Sol_1.pdf">Sol3-1</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW03_Sol_1.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW03_Sol_1.pdf</a>) . HW2 was due this Wednesday at 11:59PM.</p> <p>Friday's class - More examples for the differential. Videos: <a href="https://play.library.utoronto.ca/a18e853414033ee17f362b6c18c09820">SD</a>  (<a href="https://play.library.utoronto.ca/a18e853414033ee17f362b6c18c09820">https://play.library.utoronto.ca/a18e853414033ee17f362b6c18c09820</a>)  (<a href="https://play.library.utoronto.ca/a18e853414033ee17f362b6c18c09820/download?download_frd=1">https://play.library.utoronto.ca/a18e853414033ee17f362b6c18c09820/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/fe8cc6e1a4f9eba163c7c0b1236402d9">HD</a>  (<a href="https://play.library.utoronto.ca/fe8cc6e1a4f9eba163c7c0b1236402d9">https://play.library.utoronto.ca/fe8cc6e1a4f9eba163c7c0b1236402d9</a>)  (<a href="https://play.library.utoronto.ca/fe8cc6e1a4f9eba163c7c0b1236402d9/download?download_frd=1">https://play.library.utoronto.ca/fe8cc6e1a4f9eba163c7c0b1236402d9/download?download_frd=1</a>) .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-201002.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-201002.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-201002.pdf</a>) .</p>
5	October 5	<p>Monday's class - The differential and partial derivatives. Videos: <a href="https://play.library.utoronto.ca/5ea886d220b9c75a768d1ea932972c03">SD</a>  (<a href="https://play.library.utoronto.ca/5ea886d220b9c75a768d1ea932972c03">https://play.library.utoronto.ca/5ea886d220b9c75a768d1ea932972c03</a>)  (<a href="https://play.library.utoronto.ca/5ea886d220b9c75a768d1ea932972c03/download?download_frd=1">https://play.library.utoronto.ca/5ea886d220b9c75a768d1ea932972c03/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/082e11d03afb56e41b5a455d55e1c6eb">HD</a>  (<a href="https://play.library.utoronto.ca/082e11d03afb56e41b5a455d55e1c6eb">https://play.library.utoronto.ca/082e11d03afb56e41b5a455d55e1c6eb</a>)  (<a href="https://play.library.utoronto.ca/082e11d03afb56e41b5a455d55e1c6eb/download?download_frd=1">https://play.library.utoronto.ca/082e11d03afb56e41b5a455d55e1c6eb/download?download_frd=1</a>) .</p> <p>Wednesday's class - The differential and partial derivatives. Videos: <a href="https://play.library.utoronto.ca/a8ca7251edeb2a7e7f6b3141bd90f2f8">SD</a>  (<a href="https://play.library.utoronto.ca/a8ca7251edeb2a7e7f6b3141bd90f2f8">https://play.library.utoronto.ca/a8ca7251edeb2a7e7f6b3141bd90f2f8</a>)  (<a href="https://play.library.utoronto.ca/a8ca7251edeb2a7e7f6b3141bd90f2f8/download?download_frd=1">https://play.library.utoronto.ca/a8ca7251edeb2a7e7f6b3141bd90f2f8/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/b23690913ad84210c2142d9b8f13869a">HD</a>  (<a href="https://play.library.utoronto.ca/b23690913ad84210c2142d9b8f13869a">https://play.library.utoronto.ca/b23690913ad84210c2142d9b8f13869a</a>)  (<a href="https://play.library.utoronto.ca/b23690913ad84210c2142d9b8f13869a/download?download_frd=1">https://play.library.utoronto.ca/b23690913ad84210c2142d9b8f13869a/download?download_frd=1</a>) .</p> <p>HW4 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW04.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW04.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW04.pdf</a>) . It was due the following Thursday at 11:59PM. HW3 is due this Wednesday at 11:59PM.</p> <p>Friday's class - Initial discussion of the Inverse Function Theorem. Videos: <a href="https://play.library.utoronto.ca/a86f654dd705521869df938a871fdcc5">SD</a>  (<a href="https://play.library.utoronto.ca/a86f654dd705521869df938a871fdcc5">https://play.library.utoronto.ca/a86f654dd705521869df938a871fdcc5</a>)  (<a href="https://play.library.utoronto.ca/a86f654dd705521869df938a871fdcc5/download?download_frd=1">https://play.library.utoronto.ca/a86f654dd705521869df938a871fdcc5/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/20a9e6997eb0bfa823a428d8afef4147">HD</a>  (<a href="https://play.library.utoronto.ca/20a9e6997eb0bfa823a428d8afef4147">https://play.library.utoronto.ca/20a9e6997eb0bfa823a428d8afef4147</a>)  (<a href="https://play.library.utoronto.ca/20a9e6997eb0bfa823a428d8afef4147/download?download_frd=1">https://play.library.utoronto.ca/20a9e6997eb0bfa823a428d8afef4147/download?download_frd=1</a>) .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-201009.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-201009.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-201009.pdf</a>) .</p>
6	October 12	<p>Monday is Thanksgiving; no class.</p> <p>HW5 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW05.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW05.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW05.pdf</a>) . It was due the following Wednesday at 11:59PM. Solutions sets (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">warning</a> (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">https://q.utoronto.ca/courses/183900/pages/solution-sets-warning</a>)): <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW05_Sol_1.pdf">Sol5-1</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW05_Sol_1.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW05_Sol_1.pdf</a>) .</p>



#	Week of ...	
		<p>Wednesday's class - Towards the proof of the Inverse Function Theorem. Videos: <a href="https://play.library.utoronto.ca/ce663db9f94cc16cabe1344d1cd1ae21">SD</a>  <a href="https://play.library.utoronto.ca/ce663db9f94cc16cabe1344d1cd1ae21/download?download_frd=1">_ ↓</a>  <a href="https://play.library.utoronto.ca/ce663db9f94cc16cabe1344d1cd1ae21/download?download_frd=1">_ ↓</a> ,  <a href="https://play.library.utoronto.ca/29ea6c868d2a7048c45344590d0779d2">HD</a>  <a href="https://play.library.utoronto.ca/29ea6c868d2a7048c45344590d0779d2/download?download_frd=1">_ ↓</a>  <a href="https://play.library.utoronto.ca/29ea6c868d2a7048c45344590d0779d2/download?download_frd=1">_ ↓</a> .</p> <p>Thursday - HW4 was due at 11:59PM.</p> <p>Friday's class - the main part of the proof of the Inverse Function Theorem. Videos: <a href="https://play.library.utoronto.ca/aac9158788b0a8e41f913cd7ca1765f6">SD</a>  <a href="https://play.library.utoronto.ca/aac9158788b0a8e41f913cd7ca1765f6/download?download_frd=1">_ ↓</a>  <a href="https://play.library.utoronto.ca/aac9158788b0a8e41f913cd7ca1765f6/download?download_frd=1">_ ↓</a> ,  <a href="https://play.library.utoronto.ca/ceb08888bd59500ac79d1a52b0f30efe">HD</a>  <a href="https://play.library.utoronto.ca/ceb08888bd59500ac79d1a52b0f30efe/download?download_frd=1">_ ↓</a>  <a href="https://play.library.utoronto.ca/ceb08888bd59500ac79d1a52b0f30efe/download?download_frd=1">_ ↓</a> .</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_06_In-Class_Notes.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_06_In-Class_Notes.pdf">_ ↓</a> .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-201016.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-201016.pdf">_ ↓</a> .</p>
7	October 19	<p>Monday's class - end of the proof of the Inverse Function Theorem. Videos: <a href="https://play.library.utoronto.ca/b50b89f60dd0ce215ede48799d543946">SD</a>  <a href="https://play.library.utoronto.ca/b50b89f60dd0ce215ede48799d543946/download?download_frd=1">_ ↓</a>  <a href="https://play.library.utoronto.ca/b50b89f60dd0ce215ede48799d543946/download?download_frd=1">_ ↓</a> ,  <a href="https://play.library.utoronto.ca/b46ec656a91b07ffcbf1db13e165b1f">HD</a>  <a href="https://play.library.utoronto.ca/b46ec656a91b07ffcbf1db13e165b1f/download?download_frd=1">_ ↓</a>  <a href="https://play.library.utoronto.ca/b46ec656a91b07ffcbf1db13e165b1f/download?download_frd=1">_ ↓</a> .</p> <p>HW6 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW06.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW06.pdf">_ ↓</a> . It was due the following Wednesday at 11:59PM. Solutions sets (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">warning</a> <a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">_ ↓</a> <a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">_ ↓</a> ): <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW06_Sol_1.pdf">Sol6-1</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW06_Sol_1.pdf">_ ↓</a> .</p> <p>Wednesday's class - The Implicit Function Theorem. Videos: <a href="https://play.library.utoronto.ca/6fdbaa88b7721d5448dd1fb5c4d0e651">SD</a>  <a href="https://play.library.utoronto.ca/6fdbaa88b7721d5448dd1fb5c4d0e651/download?download_frd=1">_ ↓</a> <a href="https://play.library.utoronto.ca/6fdbaa88b7721d5448dd1fb5c4d0e651/download?download_frd=1">_ ↓</a> , <a href="https://play.library.utoronto.ca/df2b638f76c7b6ff3f5627a4af41c823">HD</a>  <a href="https://play.library.utoronto.ca/df2b638f76c7b6ff3f5627a4af41c823/download?download_frd=1">_ ↓</a>  <a href="https://play.library.utoronto.ca/df2b638f76c7b6ff3f5627a4af41c823/download?download_frd=1">_ ↓</a> .</p> <p>Wednesday - HW5 was due at 11:59PM.</p> <p>Friday's class - The Implicit Function Theorem, integration. Videos: <a href="https://play.library.utoronto.ca/4a6d7b57fcff937db6df06aecbe0d084">SD</a>  <a href="https://play.library.utoronto.ca/4a6d7b57fcff937db6df06aecbe0d084/download?download_frd=1">_ ↓</a>  <a href="https://play.library.utoronto.ca/4a6d7b57fcff937db6df06aecbe0d084/download?download_frd=1">_ ↓</a> ,  <a href="https://play.library.utoronto.ca/120c5024361def927ddec155908baa5a">HD</a>  <a href="https://play.library.utoronto.ca/120c5024361def927ddec155908baa5a/download?download_frd=1">_ ↓</a>  <a href="https://play.library.utoronto.ca/120c5024361def927ddec155908baa5a/download?download_frd=1">_ ↓</a> .</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_07_In-Class_Notes.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_07_In-Class_Notes.pdf">_ ↓</a> .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII">_ ↓</a> .</p>
















#	Week of ...	
		<a href="#">/Tutorial-Kosenko-201023.pdf)</a> .
8	October 26	<p>Monday's class - Partitions, refining partitions, integration. Videos: <a href="#">SD</a>  <a href="https://play.library.utoronto.ca/87ff2c3d15c747657e7ca2957c391858">_</a>  <a href="https://play.library.utoronto.ca/87ff2c3d15c747657e7ca2957c391858/download?download_frd=1">_</a> , <a href="#">HD</a>  <a href="https://play.library.utoronto.ca/909f515a21570e208f1b53fc97880059">_</a>  <a href="https://play.library.utoronto.ca/909f515a21570e208f1b53fc97880059/download?download_frd=1">_</a> .</p> <p>Wednesday's class - Integration, measure 0. Videos: <a href="#">SD</a>  <a href="https://play.library.utoronto.ca/7fb1987a5d7602710e3157d9d5cf4ec3">_</a>  <a href="https://play.library.utoronto.ca/7fb1987a5d7602710e3157d9d5cf4ec3/download?download_frd=1">_</a> , <a href="#">HD</a>  <a href="https://play.library.utoronto.ca/b87aadf0ad22cf5c602125b18792f5b4">_</a>  <a href="https://play.library.utoronto.ca/b87aadf0ad22cf5c602125b18792f5b4/download?download_frd=1">_</a> .</p> <p>Wednesday: HW6 was due at 11:59PM.</p> <p>Friday's class - More on measure 0, integration. Videos: <a href="#">SD</a>  <a href="https://play.library.utoronto.ca/6fb9bbcbace0fd8a2c56e233b2d6ddeb0">_</a>  <a href="https://play.library.utoronto.ca/6fb9bbcbace0fd8a2c56e233b2d6ddeb0/download?download_frd=1">_</a> , <a href="#">HD</a>  <a href="https://play.library.utoronto.ca/b347d94c64bf02fb7cd0af024f154f31">_</a>  <a href="https://play.library.utoronto.ca/b347d94c64bf02fb7cd0af024f154f31/download?download_frd=1">_</a> .</p> <p>This week's in-class notes are <a href="#">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_08_In-Class_Notes.pdf">_</a> .</p> <p>Friday's tutorial notes are <a href="#">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-201030.pdf">_</a> .</p>
9	November 2	<p>Monday's class - Continuous functions are integrable. Videos: <a href="#">SD</a>  <a href="https://play.library.utoronto.ca/c21c56434a25b03ed5c61554e69141ee">_</a>  <a href="https://play.library.utoronto.ca/c21c56434a25b03ed5c61554e69141ee/download?download_frd=1">_</a> , <a href="#">HD</a>  <a href="https://play.library.utoronto.ca/4c7e878171c08c610e3dbc37c8ef0eb4">_</a>  <a href="https://play.library.utoronto.ca/4c7e878171c08c610e3dbc37c8ef0eb4/download?download_frd=1">_</a> .</p> <p>Tuesday: Petr's office hours notes are <a href="#">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/OfficeHours-Kosenko-201103.pdf">_</a> .</p> <p>Term Test 1 on Tuesday at 5-7PM. See <a href="#">details here</a> <a href="https://q.utoronto.ca/courses/183900/discussion_topics/894005">_</a> . See <a href="#">PDF</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-TT1.pdf">_</a> .</p> <p>Wednesday's class - A bit about oscillation. Videos: <a href="#">SD</a>  <a href="https://play.library.utoronto.ca/bf761654c0b69932abf7924e47d0f27e">_</a>  <a href="https://play.library.utoronto.ca/bf761654c0b69932abf7924e47d0f27e/download?download_frd=1">_</a> , <a href="#">HD</a>  <a href="https://play.library.utoronto.ca/5579fcb5a3ac3ef36c3103d2d78aa415">_</a>  <a href="https://play.library.utoronto.ca/5579fcb5a3ac3ef36c3103d2d78aa415/download?download_frd=1">_</a> .</p> <p>HW7 is on Crowdmark, with a PDF copy <a href="#">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW07.pdf">_</a> . It was due the following Wednesday, on November 18 at</p>

#	Week of ...	
		<p>11:59PM. Solutions sets (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">warning</a> (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">https://q.utoronto.ca/courses/183900/pages/solution-sets-warning</a>)): <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW07_Sol_1.pdf">Sol7-1</a> (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW07_Sol_1.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW07_Sol_1.pdf</a>), <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW07_Sol_2.pdf">Sol7-2</a> (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW07_Sol_2.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW07_Sol_2.pdf</a>).</p> <p>Friday's class - A function is integrable iff it's set of discontinuities is of measure 0. Videos: <a href="https://play.library.utoronto.ca/899a2265e78f7c3fdd0820a2b4274c4c">SD</a> (<a href="https://play.library.utoronto.ca/899a2265e78f7c3fdd0820a2b4274c4c">https://play.library.utoronto.ca/899a2265e78f7c3fdd0820a2b4274c4c</a>) <a href="https://play.library.utoronto.ca/899a2265e78f7c3fdd0820a2b4274c4c/download?download_frd=1">↓</a> (<a href="https://play.library.utoronto.ca/899a2265e78f7c3fdd0820a2b4274c4c/download?download_frd=1">https://play.library.utoronto.ca/899a2265e78f7c3fdd0820a2b4274c4c/download?download_frd=1</a>), <a href="https://play.library.utoronto.ca/e866f6118745b8629f9ef65c286e0cee">HD</a> (<a href="https://play.library.utoronto.ca/e866f6118745b8629f9ef65c286e0cee">https://play.library.utoronto.ca/e866f6118745b8629f9ef65c286e0cee</a>) <a href="https://play.library.utoronto.ca/e866f6118745b8629f9ef65c286e0cee/download?download_frd=1">↓</a> (<a href="https://play.library.utoronto.ca/e866f6118745b8629f9ef65c286e0cee/download?download_frd=1">https://play.library.utoronto.ca/e866f6118745b8629f9ef65c286e0cee/download?download_frd=1</a>).</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_09_In-Class_Notes.pdf">here</a> (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_09_In-Class_Notes.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_09_In-Class_Notes.pdf</a>).</p> <p>Friday: No Petr office hour (but tutorial takes place as usual).</p>
R	November 9	Reading Week - no classes, no office hours.
10	November 16	<p>Monday's class - the content of a set, Fubini's theorem. Videos: <a href="https://play.library.utoronto.ca/09dbaa0690b9560e408853219f3cf739">SD</a> (<a href="https://play.library.utoronto.ca/09dbaa0690b9560e408853219f3cf739">https://play.library.utoronto.ca/09dbaa0690b9560e408853219f3cf739</a>) <a href="https://play.library.utoronto.ca/09dbaa0690b9560e408853219f3cf739/download?download_frd=1">↓</a> (<a href="https://play.library.utoronto.ca/09dbaa0690b9560e408853219f3cf739/download?download_frd=1">https://play.library.utoronto.ca/09dbaa0690b9560e408853219f3cf739/download?download_frd=1</a>), <a href="https://play.library.utoronto.ca/c463494ea595070bcfe8a3f9388db387">HD</a> (<a href="https://play.library.utoronto.ca/c463494ea595070bcfe8a3f9388db387">https://play.library.utoronto.ca/c463494ea595070bcfe8a3f9388db387</a>) <a href="https://play.library.utoronto.ca/c463494ea595070bcfe8a3f9388db387/download?download_frd=1">↓</a> (<a href="https://play.library.utoronto.ca/c463494ea595070bcfe8a3f9388db387/download?download_frd=1">https://play.library.utoronto.ca/c463494ea595070bcfe8a3f9388db387/download?download_frd=1</a>).</p> <p>Monday: no Peter office hour.</p> <p>HW8 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW08.pdf">here</a> (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW08.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW08.pdf</a>). It is due next next Wednesday, on November 25 at 11:59PM.</p> <p>Solutions sets (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">warning</a> (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">https://q.utoronto.ca/courses/183900/pages/solution-sets-warning</a>)): <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW08_Sol_1.pdf">Sol8-1</a> (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW08_Sol_1.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW08_Sol_1.pdf</a>).</p> <p>Wednesday's class - more on Fubini. Videos: <a href="https://play.library.utoronto.ca/47748a35474a053d1cdf7fc17eed8f3">SD</a> (<a href="https://play.library.utoronto.ca/47748a35474a053d1cdf7fc17eed8f3">https://play.library.utoronto.ca/47748a35474a053d1cdf7fc17eed8f3</a>) <a href="https://play.library.utoronto.ca/47748a35474a053d1cdf7fc17eed8f3/download?download_frd=1">↓</a> (<a href="https://play.library.utoronto.ca/47748a35474a053d1cdf7fc17eed8f3/download?download_frd=1">https://play.library.utoronto.ca/47748a35474a053d1cdf7fc17eed8f3/download?download_frd=1</a>), <a href="https://play.library.utoronto.ca/8a31b7d1b0f02da0c35e3b4f9cb63f1b">HD</a> (<a href="https://play.library.utoronto.ca/8a31b7d1b0f02da0c35e3b4f9cb63f1b">https://play.library.utoronto.ca/8a31b7d1b0f02da0c35e3b4f9cb63f1b</a>) <a href="https://play.library.utoronto.ca/8a31b7d1b0f02da0c35e3b4f9cb63f1b/download?download_frd=1">↓</a> (<a href="https://play.library.utoronto.ca/8a31b7d1b0f02da0c35e3b4f9cb63f1b/download?download_frd=1">https://play.library.utoronto.ca/8a31b7d1b0f02da0c35e3b4f9cb63f1b/download?download_frd=1</a>).</p> <p>"Bed of Nails" graphics is <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/nb/BedOfNails.pdf">here</a> (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/nb/BedOfNails.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/nb/BedOfNails.pdf</a>).</p> <p>Wednesday: HW7 was due at 11:59PM.</p> <p>Friday's class - Proof of Fubini, and what's a partition of unity? Videos: <a href="https://play.library.utoronto.ca/1659d5ae908d7250ec2198e1bcde96ba">SD</a> (<a href="https://play.library.utoronto.ca/1659d5ae908d7250ec2198e1bcde96ba">https://play.library.utoronto.ca/1659d5ae908d7250ec2198e1bcde96ba</a>) <a href="https://play.library.utoronto.ca/1659d5ae908d7250ec2198e1bcde96ba/download?download_frd=1">↓</a> (<a href="https://play.library.utoronto.ca/1659d5ae908d7250ec2198e1bcde96ba/download?download_frd=1">https://play.library.utoronto.ca/1659d5ae908d7250ec2198e1bcde96ba/download?download_frd=1</a>), <a href="https://play.library.utoronto.ca/6ba0e09ea69432669fd850eedd8e3520">HD</a> (<a href="https://play.library.utoronto.ca/6ba0e09ea69432669fd850eedd8e3520">https://play.library.utoronto.ca/6ba0e09ea69432669fd850eedd8e3520</a>) <a href="https://play.library.utoronto.ca/6ba0e09ea69432669fd850eedd8e3520/download?download_frd=1">↓</a> (<a href="https://play.library.utoronto.ca/6ba0e09ea69432669fd850eedd8e3520/download?download_frd=1">https://play.library.utoronto.ca/6ba0e09ea69432669fd850eedd8e3520/download?download_frd=1</a>).</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_10_In-Class_Notes.pdf">here</a> (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_10_In-Class_Notes.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_10_In-Class_Notes.pdf</a>).</p>























#	Week of ...	
		Friday: No Petr office hour (but tutorial takes place as usual).
11	November 23	<p>Monday's class - DIY smooth function assembly. Videos: <a href="https://play.library.utoronto.ca/16804bfb55c612595c607a4457e26644">SD</a>  <a href="https://play.library.utoronto.ca/16804bfb55c612595c607a4457e26644/download?download_frd=1">_</a> <a href="https://play.library.utoronto.ca/16804bfb55c612595c607a4457e26644/download?download_frd=1">↓</a> <a href="https://play.library.utoronto.ca/16804bfb55c612595c607a4457e26644/download?download_frd=1">_</a> , <a href="https://play.library.utoronto.ca/e9e8e5f334754ac3fe2f1c5204cedb30">HD</a>  <a href="https://play.library.utoronto.ca/e9e8e5f334754ac3fe2f1c5204cedb30">_</a> <a href="https://play.library.utoronto.ca/e9e8e5f334754ac3fe2f1c5204cedb30/download?download_frd=1">_</a> <a href="https://play.library.utoronto.ca/e9e8e5f334754ac3fe2f1c5204cedb30/download?download_frd=1">↓</a> <a href="https://play.library.utoronto.ca/e9e8e5f334754ac3fe2f1c5204cedb30/download?download_frd=1">_</a> .</p> <p>Monday: no Peter office hour.</p> <p>Tuesday: HW9 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW09.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW09.pdf">_</a> . It is due next next Friday, on December 4 at 11:59PM.</p> <p>Wednesday's class - PO1: more preliminaries and start of proof. Videos: <a href="https://play.library.utoronto.ca/b537ca3f89b848cf3b004d1a9b4bd6e6">SD</a>  <a href="https://play.library.utoronto.ca/b537ca3f89b848cf3b004d1a9b4bd6e6">_</a> <a href="https://play.library.utoronto.ca/b537ca3f89b848cf3b004d1a9b4bd6e6/download?download_frd=1">_</a> <a href="https://play.library.utoronto.ca/b537ca3f89b848cf3b004d1a9b4bd6e6/download?download_frd=1">↓</a> <a href="https://play.library.utoronto.ca/b537ca3f89b848cf3b004d1a9b4bd6e6/download?download_frd=1">_</a> , <a href="https://play.library.utoronto.ca/a4d56e1b924b4d7e5e1699afadd50f99">HD</a>  <a href="https://play.library.utoronto.ca/a4d56e1b924b4d7e5e1699afadd50f99">_</a> <a href="https://play.library.utoronto.ca/a4d56e1b924b4d7e5e1699afadd50f99/download?download_frd=1">_</a> <a href="https://play.library.utoronto.ca/a4d56e1b924b4d7e5e1699afadd50f99/download?download_frd=1">↓</a> <a href="https://play.library.utoronto.ca/a4d56e1b924b4d7e5e1699afadd50f99/download?download_frd=1">_</a> .</p> <p>"Smooth lego blocks" graphics are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/nb/SmoothLego.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/nb/SmoothLego.pdf">_</a> .</p> <p>Wednesday: HW8 was due at 11:59PM.</p> <p>Friday's class - PO1: proof. Videos: <a href="https://play.library.utoronto.ca/bbb5555e48f98fff0ee0c05e7764aaab">SD</a>  <a href="https://play.library.utoronto.ca/bbb5555e48f98fff0ee0c05e7764aaab">_</a> <a href="https://play.library.utoronto.ca/bbb5555e48f98fff0ee0c05e7764aaab/download?download_frd=1">_</a> <a href="https://play.library.utoronto.ca/bbb5555e48f98fff0ee0c05e7764aaab/download?download_frd=1">↓</a> <a href="https://play.library.utoronto.ca/bbb5555e48f98fff0ee0c05e7764aaab/download?download_frd=1">_</a> , <a href="https://play.library.utoronto.ca/e0e4a57265e57c429c898700a23ee894">HD</a>  <a href="https://play.library.utoronto.ca/e0e4a57265e57c429c898700a23ee894">_</a> <a href="https://play.library.utoronto.ca/e0e4a57265e57c429c898700a23ee894/download?download_frd=1">_</a> <a href="https://play.library.utoronto.ca/e0e4a57265e57c429c898700a23ee894/download?download_frd=1">↓</a> <a href="https://play.library.utoronto.ca/e0e4a57265e57c429c898700a23ee894/download?download_frd=1">_</a> .</p> <p>(sorry for the blue tint).</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_11_In-Class_Notes.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_11_In-Class_Notes.pdf">_</a> .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-201127.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-201127.pdf">_</a> .</p>
12	November 30	<p>Monday's class - Integration (NT). Videos: <a href="https://play.library.utoronto.ca/5c6fd2fea27d57ee6f0c8a4f945cf808">SD</a>  <a href="https://play.library.utoronto.ca/5c6fd2fea27d57ee6f0c8a4f945cf808">_</a> <a href="https://play.library.utoronto.ca/5c6fd2fea27d57ee6f0c8a4f945cf808/download?download_frd=1">_</a> <a href="https://play.library.utoronto.ca/5c6fd2fea27d57ee6f0c8a4f945cf808/download?download_frd=1">↓</a> <a href="https://play.library.utoronto.ca/5c6fd2fea27d57ee6f0c8a4f945cf808/download?download_frd=1">_</a> , <a href="https://play.library.utoronto.ca/90793e6e73ad41cef70241a75bd56dd5">HD</a>  <a href="https://play.library.utoronto.ca/90793e6e73ad41cef70241a75bd56dd5">_</a> <a href="https://play.library.utoronto.ca/90793e6e73ad41cef70241a75bd56dd5/download?download_frd=1">_</a> <a href="https://play.library.utoronto.ca/90793e6e73ad41cef70241a75bd56dd5/download?download_frd=1">↓</a> <a href="https://play.library.utoronto.ca/90793e6e73ad41cef70241a75bd56dd5/download?download_frd=1">_</a> .</p> <p>Wednesday's class - Integration (NT) is well defined and agrees with integration (old), changes of variables. Videos: <a href="https://play.library.utoronto.ca/07f337d35f2665092844e4cf3bf7462a">SD</a>  <a href="https://play.library.utoronto.ca/07f337d35f2665092844e4cf3bf7462a">_</a> <a href="https://play.library.utoronto.ca/07f337d35f2665092844e4cf3bf7462a/download?download_frd=1">_</a> <a href="https://play.library.utoronto.ca/07f337d35f2665092844e4cf3bf7462a/download?download_frd=1">↓</a> <a href="https://play.library.utoronto.ca/07f337d35f2665092844e4cf3bf7462a/download?download_frd=1">_</a> , <a href="https://play.library.utoronto.ca/ec2eda0d248d796cff9e95084e5c56a5">HD</a>  <a href="https://play.library.utoronto.ca/ec2eda0d248d796cff9e95084e5c56a5">_</a> <a href="https://play.library.utoronto.ca/ec2eda0d248d796cff9e95084e5c56a5/download?download_frd=1">_</a> <a href="https://play.library.utoronto.ca/ec2eda0d248d796cff9e95084e5c56a5/download?download_frd=1">↓</a> <a href="https://play.library.utoronto.ca/ec2eda0d248d796cff9e95084e5c56a5/download?download_frd=1">_</a> .</p> <p>Wednesday: HW10 is on Crowdmark, with a PDF copy <a href="http://drorbn.net">here</a>  <a href="http://drorbn.net">_</a> .</p>

























#	Week of ...	
		<p><a href="#">/AcademicPensieve/Classes/2021-257-AnalysisII/HW10.pdf</a>). It was due the next next Wednesday, on December 9 at 11:59PM. Solutions sets (<a href="#">warning</a> (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">https://q.utoronto.ca/courses/183900/pages/solution-sets-warning</a>)): <a href="#">Sol10-1</a> <a href="#">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW10_Sol_1.pdf)</a>.</p> <p>Friday's class - Changes of variables and the Gaussian integral. Videos: <a href="#">SD</a> <a href="https://play.library.utoronto.ca/abe93555d346ce6c4e2bfcc394e80a2f">https://play.library.utoronto.ca/abe93555d346ce6c4e2bfcc394e80a2f</a>) <a href="#">↓</a> (<a href="https://play.library.utoronto.ca/abe93555d346ce6c4e2bfcc394e80a2f/download?download_frd=1">https://play.library.utoronto.ca/abe93555d346ce6c4e2bfcc394e80a2f/download?download_frd=1</a>) , <a href="#">HD</a> <a href="https://play.library.utoronto.ca/492c14e8c58131a21d774eb019ef66d9">https://play.library.utoronto.ca/492c14e8c58131a21d774eb019ef66d9</a>) <a href="#">↓</a> (<a href="https://play.library.utoronto.ca/492c14e8c58131a21d774eb019ef66d9/download?download_frd=1">https://play.library.utoronto.ca/492c14e8c58131a21d774eb019ef66d9/download?download_frd=1</a>) .</p> <p>This week's in-class notes are <a href="#">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_12_In-Class_Notes.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_12_In-Class_Notes.pdf</a>).</p> <p>Friday: HW9 was due at 11:59PM.</p>
13	December 7	<p>Monday's class - Volumes of balls and spheres. Videos: <a href="#">SD</a> <a href="https://play.library.utoronto.ca/588dcf55cc961f961d6e51a9cc3922f5">https://play.library.utoronto.ca/588dcf55cc961f961d6e51a9cc3922f5</a>) <a href="#">↓</a> (<a href="https://play.library.utoronto.ca/588dcf55cc961f961d6e51a9cc3922f5/download?download_frd=1">https://play.library.utoronto.ca/588dcf55cc961f961d6e51a9cc3922f5/download?download_frd=1</a>) , <a href="#">HD</a> <a href="https://play.library.utoronto.ca/4696fb3bfe76f0d76608f48b3027a01a">https://play.library.utoronto.ca/4696fb3bfe76f0d76608f48b3027a01a</a>) <a href="#">↓</a> (<a href="https://play.library.utoronto.ca/4696fb3bfe76f0d76608f48b3027a01a/download?download_frd=1">https://play.library.utoronto.ca/4696fb3bfe76f0d76608f48b3027a01a/download?download_frd=1</a>) .</p> <p>Computations for the "Cube of Oranges" riddle are <a href="#">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/nb/CubeOfOranges.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/nb/CubeOfOranges.pdf</a>).</p> <p>Wednesday's class - Proof of the Change of Variables formula (1). Videos: <a href="#">SD</a> <a href="https://play.library.utoronto.ca/5f851ce86f33d03a59ef6555ce5c2d08">https://play.library.utoronto.ca/5f851ce86f33d03a59ef6555ce5c2d08</a>) <a href="#">↓</a> (<a href="https://play.library.utoronto.ca/5f851ce86f33d03a59ef6555ce5c2d08/download?download_frd=1">https://play.library.utoronto.ca/5f851ce86f33d03a59ef6555ce5c2d08/download?download_frd=1</a>) , <a href="#">HD</a> <a href="https://play.library.utoronto.ca/60649c3b4080c8355e9a2e2d41665cb1">https://play.library.utoronto.ca/60649c3b4080c8355e9a2e2d41665cb1</a>) <a href="#">↓</a> (<a href="https://play.library.utoronto.ca/60649c3b4080c8355e9a2e2d41665cb1/download?download_frd=1">https://play.library.utoronto.ca/60649c3b4080c8355e9a2e2d41665cb1/download?download_frd=1</a>) .</p> <p>Wednesday: HW10 was due at 11:59PM.</p> <p>Thursday was UofT "Makeup Day" - we had a class! Proof of the Change of Variables formula (2). Videos: <a href="#">SD</a> <a href="https://play.library.utoronto.ca/2b21b0cd60e845cd00ec3604b89d917a">https://play.library.utoronto.ca/2b21b0cd60e845cd00ec3604b89d917a</a>) <a href="#">↓</a> (<a href="https://play.library.utoronto.ca/2b21b0cd60e845cd00ec3604b89d917a/download?download_frd=1">https://play.library.utoronto.ca/2b21b0cd60e845cd00ec3604b89d917a/download?download_frd=1</a>) , <a href="#">HD</a> <a href="https://play.library.utoronto.ca/99930693fb8480b462888d72ce3d6471">https://play.library.utoronto.ca/99930693fb8480b462888d72ce3d6471</a>) <a href="#">↓</a> (<a href="https://play.library.utoronto.ca/99930693fb8480b462888d72ce3d6471/download?download_frd=1">https://play.library.utoronto.ca/99930693fb8480b462888d72ce3d6471/download?download_frd=1</a>) .</p> <p>This week's in-class notes are <a href="#">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_13_In-Class_Notes.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_13_In-Class_Notes.pdf</a>).</p> <p>Fall final assessments begin on Friday.</p>
FF1	December 14	Fall Final Assessments.
FF2	December 21	Fall Final Assessments end on Tuesday.
V	January 4	Evil virus reflection week - no classes.

#	Week of ...	
14	January 11	<p>Monday's class - review and continuation of the COV formula. Videos: <a href="https://play.library.utoronto.ca/3b956a5fbda3da0768efb0a16a701d44">SD</a>  (<a href="https://play.library.utoronto.ca/3b956a5fbda3da0768efb0a16a701d44/download?download_frd=1">https://play.library.utoronto.ca/3b956a5fbda3da0768efb0a16a701d44/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/d08a6124ae44d67c4d92f1ac379eb75e">HD</a>  (<a href="https://play.library.utoronto.ca/d08a6124ae44d67c4d92f1ac379eb75e/download?download_frd=1">https://play.library.utoronto.ca/d08a6124ae44d67c4d92f1ac379eb75e/download?download_frd=1</a>) .</p> <p>Wednesday's class - Proof of the Change of Variables formula: continuous to integrable. Videos: <a href="https://play.library.utoronto.ca/917844fe7c3579b649a4190e0a2308fd">SD</a>  (<a href="https://play.library.utoronto.ca/917844fe7c3579b649a4190e0a2308fd/download?download_frd=1">https://play.library.utoronto.ca/917844fe7c3579b649a4190e0a2308fd/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/6a9860637e759aff5c76dd9743248c3d">HD</a>  (<a href="https://play.library.utoronto.ca/6a9860637e759aff5c76dd9743248c3d/download?download_frd=1">https://play.library.utoronto.ca/6a9860637e759aff5c76dd9743248c3d/download?download_frd=1</a>) .</p> <p>Friday's class - Baby Sard. Videos: <a href="https://play.library.utoronto.ca/87932d65ec1839d61275987e632c6be2">SD</a>  (<a href="https://play.library.utoronto.ca/87932d65ec1839d61275987e632c6be2/download?download_frd=1">https://play.library.utoronto.ca/87932d65ec1839d61275987e632c6be2/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/85457c28920444bdf7442d3efff0765a">HD</a>  (<a href="https://play.library.utoronto.ca/85457c28920444bdf7442d3efff0765a/download?download_frd=1">https://play.library.utoronto.ca/85457c28920444bdf7442d3efff0765a/download?download_frd=1</a>) .</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_14_In-Class_Notes.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_14_In-Class_Notes.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_14_In-Class_Notes.pdf</a>) .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210115.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210115.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210115.pdf</a>) .</p>
15	January 18	<p>Monday's class - tensors. Videos: <a href="https://play.library.utoronto.ca/dc98ce0ea60732ae679c28b266d409a7">SD</a>  (<a href="https://play.library.utoronto.ca/dc98ce0ea60732ae679c28b266d409a7/download?download_frd=1">https://play.library.utoronto.ca/dc98ce0ea60732ae679c28b266d409a7/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/899aa6cffbb62bf3751651da98aea70c">HD</a>  (<a href="https://play.library.utoronto.ca/899aa6cffbb62bf3751651da98aea70c/download?download_frd=1">https://play.library.utoronto.ca/899aa6cffbb62bf3751651da98aea70c/download?download_frd=1</a>) .</p> <p>Term Test 2 online, on Tuesday at 5-7PM. See <a href="https://q.utoronto.ca/courses/183900/discussion_topics/1018636">details here</a> (<a href="https://q.utoronto.ca/courses/183900/discussion_topics/1018636">https://q.utoronto.ca/courses/183900/discussion_topics/1018636</a>) . See <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-TT2.pdf">PDF</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-TT2.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-TT2.pdf</a>) .</p> <p>Wednesday's class - bases and dual bases, more on tensors. Videos: <a href="https://play.library.utoronto.ca/1e2f38a23e3e6d840f28c4f924a0ad7b">SD</a>  (<a href="https://play.library.utoronto.ca/1e2f38a23e3e6d840f28c4f924a0ad7b/download?download_frd=1">https://play.library.utoronto.ca/1e2f38a23e3e6d840f28c4f924a0ad7b/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/af61f2f14809871bc81a56a6182001a2">HD</a>  (<a href="https://play.library.utoronto.ca/af61f2f14809871bc81a56a6182001a2/download?download_frd=1">https://play.library.utoronto.ca/af61f2f14809871bc81a56a6182001a2/download?download_frd=1</a>) .</p> <p>Wednesday: No Shuyang office hour.</p> <p>Wednesday: HW11 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW11.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW11.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW11.pdf</a>) . It is due thenext Wednesday, on January 27 at 11:59PM.</p> <p>Friday's class - a basis for <math>k</math>-tensors, pushforwards and pullbacks. Videos: <a href="https://play.library.utoronto.ca/dcb8c3330e1c4547fb5809ccfef4f667">SD</a>  (<a href="https://play.library.utoronto.ca/dcb8c3330e1c4547fb5809ccfef4f667/download?download_frd=1">https://play.library.utoronto.ca/dcb8c3330e1c4547fb5809ccfef4f667/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/dcb8c3330e1c4547fb5809ccfef4f667/download?download_frd=1">HD</a></p>























#	Week of ...	
		<p> <a href="https://play.library.utoronto.ca/ad8a88cfc1db31e7bb678a0cd11572a2/">(https://play.library.utoronto.ca/ad8a88cfc1db31e7bb678a0cd11572a2/)</a> ↓  <a href="https://play.library.utoronto.ca/ad8a88cfc1db31e7bb678a0cd11572a2/download?download_frd=1">https://play.library.utoronto.ca/ad8a88cfc1db31e7bb678a0cd11572a2/download?download_frd=1</a> .         </p> <p>           This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_15_In-Class_Notes.pdf">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_15_In-Class_Notes.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_15_In-Class_Notes.pdf)</a> .         </p> <p>           Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210122.pdf">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210122.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210122.pdf)</a> .         </p>
16	January 25	<p>           Monday's class - alternating tensors. Videos: <a href="https://play.library.utoronto.ca/685ce11a562cf304dd2252dad18086b/">SD</a> <a href="https://play.library.utoronto.ca/685ce11a562cf304dd2252dad18086b/"></a> <a href="https://play.library.utoronto.ca/685ce11a562cf304dd2252dad18086b/download?download_frd=1">https://play.library.utoronto.ca/685ce11a562cf304dd2252dad18086b/download?download_frd=1</a> , <a href="https://play.library.utoronto.ca/8dd93e7d11390c0dc92901caeb9a560a/">HD</a> <a href="https://play.library.utoronto.ca/8dd93e7d11390c0dc92901caeb9a560a/"></a> <a href="https://play.library.utoronto.ca/8dd93e7d11390c0dc92901caeb9a560a/download?download_frd=1">https://play.library.utoronto.ca/8dd93e7d11390c0dc92901caeb9a560a/download?download_frd=1</a> .         </p> <p>Monday: No Sebastian office hour.</p> <p>           Wednesday's class - counting alternating tensors. Videos: <a href="https://play.library.utoronto.ca/3c9aa80d90cdc2c380edcf597fc0f347/">SD</a> <a href="https://play.library.utoronto.ca/3c9aa80d90cdc2c380edcf597fc0f347/"></a> <a href="https://play.library.utoronto.ca/3c9aa80d90cdc2c380edcf597fc0f347/download?download_frd=1">https://play.library.utoronto.ca/3c9aa80d90cdc2c380edcf597fc0f347/download?download_frd=1</a> , <a href="https://play.library.utoronto.ca/7497850e74449a5710526df17b3770cb/">HD</a> <a href="https://play.library.utoronto.ca/7497850e74449a5710526df17b3770cb/"></a> <a href="https://play.library.utoronto.ca/7497850e74449a5710526df17b3770cb/download?download_frd=1">https://play.library.utoronto.ca/7497850e74449a5710526df17b3770cb/download?download_frd=1</a> .         </p> <p>           Wednesday: HW12 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW12.pdf">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW12.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW12.pdf)</a> . It was due the next Wednesday, on February 3 at 11:59PM. Solutions sets (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">warning</a> <a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">https://q.utoronto.ca/courses/183900/pages/solution-sets-warning</a>): <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW12_Sol_1.pdf">Sol12-1</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW12_Sol_1.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW12_Sol_1.pdf)</a> .         </p> <p>Wednesday: HW11 was due at 11:59PM.</p> <p>Wednesday: No Shuyang office hour.</p> <p>           Friday's class - counting alternating tensors, counting non-decreasing sequences. Videos: <a href="https://play.library.utoronto.ca/139b1e4f65555609f573a6fca676d3bc/">SD</a> <a href="https://play.library.utoronto.ca/139b1e4f65555609f573a6fca676d3bc/"></a> <a href="https://play.library.utoronto.ca/139b1e4f65555609f573a6fca676d3bc/download?download_frd=1">https://play.library.utoronto.ca/139b1e4f65555609f573a6fca676d3bc/download?download_frd=1</a> , <a href="https://play.library.utoronto.ca/77dc39b0a9284adfff69bb9f91dcb623/">HD</a> <a href="https://play.library.utoronto.ca/77dc39b0a9284adfff69bb9f91dcb623/"></a> <a href="https://play.library.utoronto.ca/77dc39b0a9284adfff69bb9f91dcb623/download?download_frd=1">https://play.library.utoronto.ca/77dc39b0a9284adfff69bb9f91dcb623/download?download_frd=1</a> .         </p> <p>           This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_16_In-Class_Notes.pdf">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_16_In-Class_Notes.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_16_In-Class_Notes.pdf)</a> .         </p> <p>           Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210129.pdf">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210129.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210129.pdf)</a> .         </p>
17	February 1	<p>           Monday's class - wedge products. Videos: <a href="https://play.library.utoronto.ca/ab27d51dbc01e59f42db8eea013819f0/">SD</a> <a href="https://play.library.utoronto.ca/ab27d51dbc01e59f42db8eea013819f0/"></a> <a href="https://play.library.utoronto.ca/ab27d51dbc01e59f42db8eea013819f0/download?download_frd=1">https://play.library.utoronto.ca/ab27d51dbc01e59f42db8eea013819f0/download?download_frd=1</a> , <a href="https://play.library.utoronto.ca/68fddc2ec450c0db29e8d6a2f0d261e4/">HD</a> <a href="https://play.library.utoronto.ca/68fddc2ec450c0db29e8d6a2f0d261e4/"></a> <a href="https://play.library.utoronto.ca/68fddc2ec450c0db29e8d6a2f0d261e4/download?download_frd=1">https://play.library.utoronto.ca/68fddc2ec450c0db29e8d6a2f0d261e4/download?download_frd=1</a> .         </p>

#	Week of ...	
		<p>Monday: No Sebastian office hour.</p> <p>Tuesday: HW13 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW13.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW13.pdf">_ (http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW13.pdf)</a> . It was due the next Wednesday, on February 10 at 11:59PM. Solutions sets (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">warning (https://q.utoronto.ca/courses/183900/pages/solution-sets-warning)</a>): <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW13_Sol_1.pdf">Sol13-1</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW13_Sol_1.pdf">_ (http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/HW13_Sol_1.pdf)</a> .</p> <p>Wednesday: HW12 was due at 11:59PM.</p> <p>Wednesday's class - more wedge products. Videos: <a href="https://play.library.utoronto.ca/90965cf469894ef73a093a70fa0f117f">SD</a>  <a href="https://play.library.utoronto.ca/90965cf469894ef73a093a70fa0f117f">_ (https://play.library.utoronto.ca/90965cf469894ef73a093a70fa0f117f)</a>  <a href="https://play.library.utoronto.ca/90965cf469894ef73a093a70fa0f117f/download?download_frd=1"> (https://play.library.utoronto.ca/90965cf469894ef73a093a70fa0f117f/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/8de883b24aeb82e4b64a4cd2e2ba2a02">HD</a>  <a href="https://play.library.utoronto.ca/8de883b24aeb82e4b64a4cd2e2ba2a02">_ (https://play.library.utoronto.ca/8de883b24aeb82e4b64a4cd2e2ba2a02)</a>  <a href="https://play.library.utoronto.ca/8de883b24aeb82e4b64a4cd2e2ba2a02/download?download_frd=1"> (https://play.library.utoronto.ca/8de883b24aeb82e4b64a4cd2e2ba2a02/download?download_frd=1)</a> .</p> <p>Wednesday at 11:59PM: HW12 was due.</p> <p>Friday's class - orientations, tangent vectors. Videos: <a href="https://play.library.utoronto.ca/da03f96433fc2b59a133236b9bf10c3c">SD</a>  <a href="https://play.library.utoronto.ca/da03f96433fc2b59a133236b9bf10c3c">_ (https://play.library.utoronto.ca/da03f96433fc2b59a133236b9bf10c3c)</a>  <a href="https://play.library.utoronto.ca/da03f96433fc2b59a133236b9bf10c3c/download?download_frd=1"> (https://play.library.utoronto.ca/da03f96433fc2b59a133236b9bf10c3c/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/d6ab93774737063f8097b457be7ae222">HD</a>  <a href="https://play.library.utoronto.ca/d6ab93774737063f8097b457be7ae222">_ (https://play.library.utoronto.ca/d6ab93774737063f8097b457be7ae222)</a>  <a href="https://play.library.utoronto.ca/d6ab93774737063f8097b457be7ae222/download?download_frd=1"> (https://play.library.utoronto.ca/d6ab93774737063f8097b457be7ae222/download?download_frd=1)</a> .</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_17_In-Class_Notes.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_17_In-Class_Notes.pdf">_ (http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_17_In-Class_Notes.pdf)</a> .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210205.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210205.pdf">_ (http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210205.pdf)</a> .</p>
18	February 8	<p>Monday's class - tangent vectors and directional derivatives. Videos: <a href="https://play.library.utoronto.ca/a3e98defc5e2554ce4311aefba1a5323">SD</a>  <a href="https://play.library.utoronto.ca/a3e98defc5e2554ce4311aefba1a5323">_ (https://play.library.utoronto.ca/a3e98defc5e2554ce4311aefba1a5323)</a>  <a href="https://play.library.utoronto.ca/a3e98defc5e2554ce4311aefba1a5323/download?download_frd=1"> (https://play.library.utoronto.ca/a3e98defc5e2554ce4311aefba1a5323/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/bc4a684c4aa09e66a29124682b7b6a50">HD</a>  <a href="https://play.library.utoronto.ca/bc4a684c4aa09e66a29124682b7b6a50">_ (https://play.library.utoronto.ca/bc4a684c4aa09e66a29124682b7b6a50)</a>  <a href="https://play.library.utoronto.ca/bc4a684c4aa09e66a29124682b7b6a50/download?download_frd=1"> (https://play.library.utoronto.ca/bc4a684c4aa09e66a29124682b7b6a50/download?download_frd=1)</a> .</p> <p>Monday: HW14 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW14.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW14.pdf">_ (http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW14.pdf)</a> . It was due on Monday February 22 at 11:59PM.</p> <p>Wednesday's class - differential forms, <math>df</math> . Videos: <a href="https://play.library.utoronto.ca/834013948afd2e19b2a9747563e53c4e">SD</a>  <a href="https://play.library.utoronto.ca/834013948afd2e19b2a9747563e53c4e">_ (https://play.library.utoronto.ca/834013948afd2e19b2a9747563e53c4e)</a>  <a href="https://play.library.utoronto.ca/834013948afd2e19b2a9747563e53c4e/download?download_frd=1"> (https://play.library.utoronto.ca/834013948afd2e19b2a9747563e53c4e/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/939361734b5eb71ba2961fe64a67d484">HD</a>  <a href="https://play.library.utoronto.ca/939361734b5eb71ba2961fe64a67d484">_ (https://play.library.utoronto.ca/939361734b5eb71ba2961fe64a67d484)</a>  <a href="https://play.library.utoronto.ca/939361734b5eb71ba2961fe64a67d484/download?download_frd=1"> (https://play.library.utoronto.ca/939361734b5eb71ba2961fe64a67d484/download?download_frd=1)</a> .</p> <p>Friday's class - <math>d</math> . Videos: <a href="https://play.library.utoronto.ca/28c9e53433d399f0cd1bda7e1e92d3e9">SD</a>  <a href="https://play.library.utoronto.ca/28c9e53433d399f0cd1bda7e1e92d3e9">_ (https://play.library.utoronto.ca/28c9e53433d399f0cd1bda7e1e92d3e9)</a>  <a href="https://play.library.utoronto.ca/28c9e53433d399f0cd1bda7e1e92d3e9/download?download_frd=1"> (https://play.library.utoronto.ca/28c9e53433d399f0cd1bda7e1e92d3e9/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/e7e2f8f84bf1d8383548e8604da38195">HD</a>  <a href="https://play.library.utoronto.ca/e7e2f8f84bf1d8383548e8604da38195">_ (https://play.library.utoronto.ca/e7e2f8f84bf1d8383548e8604da38195)</a>  .</p>














#	Week of ...	
		<p>(<a href="https://play.library.utoronto.ca/e7e2f8f84bf1d8383548e8604da38195/download?download_frd=1">https://play.library.utoronto.ca/e7e2f8f84bf1d8383548e8604da38195/download?download_frd=1</a>) .</p> <p>Wednesday at 11:59PM: HW13 was due.</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_18_In-Class_Notes.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_18_In-Class_Notes.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_18_In-Class_Notes.pdf</a>) .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210212.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210212.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210212.pdf</a>) .</p>
R	February 15	Reading Week - no classes, no tutorials, no office hours.
19	February 22	<p>Monday's class - <math>d</math> . Videos: <a href="https://play.library.utoronto.ca/f26ee5c5f8f14c2457ffa68af2910f39">SD</a>  (<a href="https://play.library.utoronto.ca/f26ee5c5f8f14c2457ffa68af2910f39">https://play.library.utoronto.ca/f26ee5c5f8f14c2457ffa68af2910f39</a>)  (<a href="https://play.library.utoronto.ca/f26ee5c5f8f14c2457ffa68af2910f39/download?download_frd=1">https://play.library.utoronto.ca/f26ee5c5f8f14c2457ffa68af2910f39/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/387c7ed78e6aa23ba6a95112aa55c1db">HD</a>  (<a href="https://play.library.utoronto.ca/387c7ed78e6aa23ba6a95112aa55c1db">https://play.library.utoronto.ca/387c7ed78e6aa23ba6a95112aa55c1db</a>)  (<a href="https://play.library.utoronto.ca/387c7ed78e6aa23ba6a95112aa55c1db/download?download_frd=1">https://play.library.utoronto.ca/387c7ed78e6aa23ba6a95112aa55c1db/download?download_frd=1</a>) .</p> <p>Monday: HW15 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW15.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW15.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW15.pdf</a>) . It is due on Monday March 1 at 11:59PM.</p> <p>Monday at 11:59PM: HW14 was due.</p> <p>Wednesday's class - the geometric meaning of <math>d</math> . Videos: <a href="https://play.library.utoronto.ca/88f7eef4b1a94bd8b98076d255b00017">SD</a>  (<a href="https://play.library.utoronto.ca/88f7eef4b1a94bd8b98076d255b00017">https://play.library.utoronto.ca/88f7eef4b1a94bd8b98076d255b00017</a>)  (<a href="https://play.library.utoronto.ca/88f7eef4b1a94bd8b98076d255b00017/download?download_frd=1">https://play.library.utoronto.ca/88f7eef4b1a94bd8b98076d255b00017/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/f366cd1bb19326d3745e10f3079a212e">HD</a>  (<a href="https://play.library.utoronto.ca/f366cd1bb19326d3745e10f3079a212e">https://play.library.utoronto.ca/f366cd1bb19326d3745e10f3079a212e</a>)  (<a href="https://play.library.utoronto.ca/f366cd1bb19326d3745e10f3079a212e/download?download_frd=1">https://play.library.utoronto.ca/f366cd1bb19326d3745e10f3079a212e/download?download_frd=1</a>) .</p> <p>Friday's class - cubes and chains. Videos: <a href="https://play.library.utoronto.ca/8499a8914d1b5fbec389f0326b543143">SD</a>  (<a href="https://play.library.utoronto.ca/8499a8914d1b5fbec389f0326b543143">https://play.library.utoronto.ca/8499a8914d1b5fbec389f0326b543143</a>)  (<a href="https://play.library.utoronto.ca/8499a8914d1b5fbec389f0326b543143/download?download_frd=1">https://play.library.utoronto.ca/8499a8914d1b5fbec389f0326b543143/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/47a026b7f8b8de62fc0301287a8f430a">HD</a>  (<a href="https://play.library.utoronto.ca/47a026b7f8b8de62fc0301287a8f430a">https://play.library.utoronto.ca/47a026b7f8b8de62fc0301287a8f430a</a>)  (<a href="https://play.library.utoronto.ca/47a026b7f8b8de62fc0301287a8f430a/download?download_frd=1">https://play.library.utoronto.ca/47a026b7f8b8de62fc0301287a8f430a/download?download_frd=1</a>) .</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_19_In-Class_Notes.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_19_In-Class_Notes.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_19_In-Class_Notes.pdf</a>) .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210226.pdf">here</a>  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210226.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210226.pdf</a>) .</p>
20	March 1	<p>Monday's class - the boundary of a boundary, integration on chains. Videos: <a href="https://play.library.utoronto.ca/44ba31d68e8198e3aca4b6ec3c0db3ef">SD</a>  (<a href="https://play.library.utoronto.ca/44ba31d68e8198e3aca4b6ec3c0db3ef">https://play.library.utoronto.ca/44ba31d68e8198e3aca4b6ec3c0db3ef</a>)  (<a href="https://play.library.utoronto.ca/44ba31d68e8198e3aca4b6ec3c0db3ef/download?download_frd=1">https://play.library.utoronto.ca/44ba31d68e8198e3aca4b6ec3c0db3ef/download?download_frd=1</a>) , <a href="https://play.library.utoronto.ca/e12deed78bfc9afd3dc0783767243174">HD</a>  (<a href="https://play.library.utoronto.ca/e12deed78bfc9afd3dc0783767243174">https://play.library.utoronto.ca/e12deed78bfc9afd3dc0783767243174</a>)  (<a href="https://play.library.utoronto.ca/e12deed78bfc9afd3dc0783767243174/download?download_frd=1">https://play.library.utoronto.ca/e12deed78bfc9afd3dc0783767243174/download?download_frd=1</a>) .</p> <p>Monday at 11:59PM: HW15 was due.</p> <p>Wednesday's class - integration on chains, pullbacks and pushforwards. Videos: <a href="#">SD</a> </p>



#	Week of ...	
		<p>(<a href="https://play.library.utoronto.ca/d1880a36253ef762480794833983ba3c">https://play.library.utoronto.ca/d1880a36253ef762480794833983ba3c</a>) ↓  (<a href="https://play.library.utoronto.ca/d1880a36253ef762480794833983ba3c/download?download_frd=1">https://play.library.utoronto.ca/d1880a36253ef762480794833983ba3c/download?download_frd=1</a>) ,  <b>HD</b> ⚡ (<a href="https://play.library.utoronto.ca/dcafb6d6fc2e029a0f559f67e4e989a8c">https://play.library.utoronto.ca/dcafb6d6fc2e029a0f559f67e4e989a8c</a>) ↓  (<a href="https://play.library.utoronto.ca/dcafb6d6fc2e029a0f559f67e4e989a8c/download?download_frd=1">https://play.library.utoronto.ca/dcafb6d6fc2e029a0f559f67e4e989a8c/download?download_frd=1</a>) .</p> <p>Friday's class - proof of Stokes' theorem on chains. Videos: <b>SD</b> ⚡ (<a href="https://play.library.utoronto.ca/19d6d71fb6ab0943543e57c81a137bee">https://play.library.utoronto.ca/19d6d71fb6ab0943543e57c81a137bee</a>) ↓ (<a href="https://play.library.utoronto.ca/19d6d71fb6ab0943543e57c81a137bee/download?download_frd=1">https://play.library.utoronto.ca/19d6d71fb6ab0943543e57c81a137bee/download?download_frd=1</a>) , <b>HD</b> ⚡  (<a href="https://play.library.utoronto.ca/e46752549d4bd42035efedd53272a9a2">https://play.library.utoronto.ca/e46752549d4bd42035efedd53272a9a2</a>) ↓  (<a href="https://play.library.utoronto.ca/e46752549d4bd42035efedd53272a9a2/download?download_frd=1">https://play.library.utoronto.ca/e46752549d4bd42035efedd53272a9a2/download?download_frd=1</a>) .</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_20_In-Class_Notes.pdf">here</a> ⚡ (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_20_In-Class_Notes.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_20_In-Class_Notes.pdf</a>) .</p> <p>Friday 10:30-11:30: Extra Shuyang office hour on <a href="https://utoronto.zoom.us/j/83428997680">Shuyang's Zoom</a> ⚡ (<a href="https://utoronto.zoom.us/j/83428997680">https://utoronto.zoom.us/j/83428997680</a>) (password vchat).</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210305.pdf">here</a> ⚡ (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210305.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210305.pdf</a>) .</p>
21	March 8	<p>Monday's class - manifolds, examples. Videos: <b>SD</b> ⚡ (<a href="https://play.library.utoronto.ca/f2cb16de436b528675ff033500d361d2">https://play.library.utoronto.ca/f2cb16de436b528675ff033500d361d2</a>) ↓ (<a href="https://play.library.utoronto.ca/f2cb16de436b528675ff033500d361d2/download?download_frd=1">https://play.library.utoronto.ca/f2cb16de436b528675ff033500d361d2/download?download_frd=1</a>) , <b>HD</b> ⚡  (<a href="https://play.library.utoronto.ca/1966a08e32cbc1890b6e8842561598f6">https://play.library.utoronto.ca/1966a08e32cbc1890b6e8842561598f6</a>) ↓  (<a href="https://play.library.utoronto.ca/1966a08e32cbc1890b6e8842561598f6/download?download_frd=1">https://play.library.utoronto.ca/1966a08e32cbc1890b6e8842561598f6/download?download_frd=1</a>) .</p> <p>Monday 11-2: extra Sebastian office hours on <a href="https://us02web.zoom.us/j/88310099689?pwd=S1dTNmJDZkRBNW5QWENWcWtyWm5QQT09">Sebastian's Zoom</a> ⚡ (<a href="https://us02web.zoom.us/j/88310099689?pwd=S1dTNmJDZkRBNW5QWENWcWtyWm5QQT09">https://us02web.zoom.us/j/88310099689?pwd=S1dTNmJDZkRBNW5QWENWcWtyWm5QQT09</a>) ,</p> <p>Tuesday 10:30-11:30: Extra Shuyang office hour on <a href="https://utoronto.zoom.us/j/83428997680">Shuyang's Zoom</a> ⚡ (<a href="https://utoronto.zoom.us/j/83428997680">https://utoronto.zoom.us/j/83428997680</a>) (password vchat).</p> <p>Tuesday at 5-7PM: Term Test 3 on Crowdmark. Info and prep questions are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/TT3-Info.pdf">here</a> ⚡  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/TT3-Info.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/TT3-Info.pdf</a>) . See <b>PDF</b> ⚡  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-TT3.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-TT3.pdf</a>) . Solutions sets  (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">warning</a> (<a href="https://q.utoronto.ca/courses/183900/pages/solution-sets-warning">https://q.utoronto.ca/courses/183900/pages/solution-sets-warning</a>)): <b>TT3_Sol-1</b> ⚡  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/TT3_Sol_1.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/TT3_Sol_1.pdf</a>) , <b>TT3_Sol-2</b> ⚡  (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/TT3_Sol_2.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/SS/TT3_Sol_2.pdf</a>) .</p> <p>Tuesday: HW16 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW16.pdf">here</a> ⚡ (<a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW16.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW16.pdf</a>) . It is due on Wednesday March 17 at 11:59PM.</p> <p>Wednesday's class: Manifolds - the three local properties. Videos: <b>SD</b> ⚡  (<a href="https://play.library.utoronto.ca/f4785f76b1057e963d9fda29e4fc8695">https://play.library.utoronto.ca/f4785f76b1057e963d9fda29e4fc8695</a>) ↓  (<a href="https://play.library.utoronto.ca/f4785f76b1057e963d9fda29e4fc8695/download?download_frd=1">https://play.library.utoronto.ca/f4785f76b1057e963d9fda29e4fc8695/download?download_frd=1</a>) , <b>HD</b>  ⚡ (<a href="https://play.library.utoronto.ca/9a9c2f49da547fc5b9434824ab221a0d">https://play.library.utoronto.ca/9a9c2f49da547fc5b9434824ab221a0d</a>) ↓  (<a href="https://play.library.utoronto.ca/9a9c2f49da547fc5b9434824ab221a0d/download?download_frd=1">https://play.library.utoronto.ca/9a9c2f49da547fc5b9434824ab221a0d/download?download_frd=1</a>) .</p> <p>Wednesday: No Shuyang office hour.</p>




#	Week of ...	
		<p>Friday's class: Manifolds and coordinate patches. Videos: <a href="https://play.library.utoronto.ca/146235dfa3a93614e147501274530e57">SD</a>  <a href="https://play.library.utoronto.ca/146235dfa3a93614e147501274530e57">_(https://play.library.utoronto.ca/146235dfa3a93614e147501274530e57)</a>  <a href="https://play.library.utoronto.ca/146235dfa3a93614e147501274530e57/download?download_frd=1">_(https://play.library.utoronto.ca/146235dfa3a93614e147501274530e57/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/d47a31459448e74152c0a24037fc8dd7">HD</a>  <a href="https://play.library.utoronto.ca/d47a31459448e74152c0a24037fc8dd7">_(https://play.library.utoronto.ca/d47a31459448e74152c0a24037fc8dd7)</a>  <a href="https://play.library.utoronto.ca/d47a31459448e74152c0a24037fc8dd7/download?download_frd=1">_(https://play.library.utoronto.ca/d47a31459448e74152c0a24037fc8dd7/download?download_frd=1)</a> .</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_21_In-Class_Notes.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_21_In-Class_Notes.pdf">_(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_21_In-Class_Notes.pdf)</a> .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210312.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210312.pdf">_(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210312.pdf)</a> .</p>
22	March 15	<p>Monday's class - manifolds with boundary, the tangent space. Videos: <a href="https://play.library.utoronto.ca/b936cc09a5c14522363ac33527143dc4">SD</a>  <a href="https://play.library.utoronto.ca/b936cc09a5c14522363ac33527143dc4">_(https://play.library.utoronto.ca/b936cc09a5c14522363ac33527143dc4)</a>  <a href="https://play.library.utoronto.ca/b936cc09a5c14522363ac33527143dc4/download?download_frd=1">_(https://play.library.utoronto.ca/b936cc09a5c14522363ac33527143dc4/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/cf046d20c6dc01c971e0dd08137eb95d">HD</a>  <a href="https://play.library.utoronto.ca/cf046d20c6dc01c971e0dd08137eb95d">_(https://play.library.utoronto.ca/cf046d20c6dc01c971e0dd08137eb95d)</a>  <a href="https://play.library.utoronto.ca/cf046d20c6dc01c971e0dd08137eb95d/download?download_frd=1">_(https://play.library.utoronto.ca/cf046d20c6dc01c971e0dd08137eb95d/download?download_frd=1)</a> .</p> <p>Monday: No Sebastian office hour.</p> <p>Tuesday: HW17 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW17.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW17.pdf">_(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW17.pdf)</a> . It is due on Wednesday March 24 at 11:59PM.</p> <p>Wednesday's class: Forms on manifolds. Videos: <a href="https://play.library.utoronto.ca/75c506a41b87f9a78894ffa4322f335e">SD</a>  <a href="https://play.library.utoronto.ca/75c506a41b87f9a78894ffa4322f335e">_(https://play.library.utoronto.ca/75c506a41b87f9a78894ffa4322f335e)</a>  <a href="https://play.library.utoronto.ca/75c506a41b87f9a78894ffa4322f335e/download?download_frd=1">_(https://play.library.utoronto.ca/75c506a41b87f9a78894ffa4322f335e/download?download_frd=1)</a> , <a href="https://play.library.utoronto.ca/bc40b07b51c670daf03549de038b6160">HD</a>  <a href="https://play.library.utoronto.ca/bc40b07b51c670daf03549de038b6160">_(https://play.library.utoronto.ca/bc40b07b51c670daf03549de038b6160)</a>  <a href="https://play.library.utoronto.ca/bc40b07b51c670daf03549de038b6160/download?download_frd=1">_(https://play.library.utoronto.ca/bc40b07b51c670daf03549de038b6160/download?download_frd=1)</a> .</p> <p>Wednesday: No Shuyang office hour.</p> <p>Wednesday: HW 16 was due at 11:59PM.</p> <p>Friday's class: Orientations. Videos: <a href="https://play.library.utoronto.ca/ccbcfa2df6514544f085aec32439a3ae">SD</a>  <a href="https://play.library.utoronto.ca/ccbcfa2df6514544f085aec32439a3ae">_(https://play.library.utoronto.ca/ccbcfa2df6514544f085aec32439a3ae)</a> , <a href="https://play.library.utoronto.ca/3bd314a5609757cb93a5c0e5baa269a4">HD</a>  <a href="https://play.library.utoronto.ca/3bd314a5609757cb93a5c0e5baa269a4">_(https://play.library.utoronto.ca/3bd314a5609757cb93a5c0e5baa269a4)</a> .</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_22_In-Class_Notes.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_22_In-Class_Notes.pdf">_(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_22_In-Class_Notes.pdf)</a> .</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210319.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210319.pdf">_(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210319.pdf)</a> .</p>
23	March 22	<p>Monday's class - orienting the boundary. Videos: <a href="https://play.library.utoronto.ca/76ad254a1e7ff45cf5129ac7a51fa35e">SD</a>  <a href="https://play.library.utoronto.ca/76ad254a1e7ff45cf5129ac7a51fa35e">_(https://play.library.utoronto.ca/76ad254a1e7ff45cf5129ac7a51fa35e)</a> , <a href="https://play.library.utoronto.ca/808eb4eb028f01310c2716e8f12e7458">HD</a>  <a href="https://play.library.utoronto.ca/808eb4eb028f01310c2716e8f12e7458">_(https://play.library.utoronto.ca/808eb4eb028f01310c2716e8f12e7458)</a> .</p> <p>Monday: No Sebastian office hour.</p> <p>Monday: HW18 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve">here</a>  <a href="http://drorbn.net/AcademicPensieve">_(http://drorbn.net/AcademicPensieve)</a> .</p>

#	Week of ...	
		<p><a href="#">/Classes/2021-257-AnalysisII/HW18.pdf</a>). It is due on Monday March 29 at 11:59PM.</p> <p>Wednesday's class - orienting the boundary, integration. Videos: <a href="#">SD</a> <a href="https://play.library.utoronto.ca/871df02dd47dbe7cc6763906593acc5b">https://play.library.utoronto.ca/871df02dd47dbe7cc6763906593acc5b</a>), <a href="#">HD</a> <a href="https://play.library.utoronto.ca/78d66e3f01994f69428e6044b7fe3c66">https://play.library.utoronto.ca/78d66e3f01994f69428e6044b7fe3c66</a>).</p> <p>Wednesday: HW17 is due at 11:59PM.</p> <p>Friday's class - integration and Stokes'. Videos: <a href="#">SD</a> <a href="https://play.library.utoronto.ca/ce2edc7bcf4600a4a621673aaa2feaf5">https://play.library.utoronto.ca/ce2edc7bcf4600a4a621673aaa2feaf5</a>), <a href="#">HD</a> <a href="https://play.library.utoronto.ca/9084b8721debb950c3e94ef2a9d9e744">https://play.library.utoronto.ca/9084b8721debb950c3e94ef2a9d9e744</a>).</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_23_In-Class_Notes.pdf">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_23_In-Class_Notes.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_23_In-Class_Notes.pdf</a>).</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210326.pdf">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210326.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210326.pdf</a>).</p>
24	March 29	<p>Monday's class - Proof of Stokes' on manifolds; Green's theorem. Videos: <a href="#">SD</a> <a href="https://play.library.utoronto.ca/bc38a42c805ea65c354214d77e0521f9">https://play.library.utoronto.ca/bc38a42c805ea65c354214d77e0521f9</a>), <a href="#">HD</a> <a href="https://play.library.utoronto.ca/fd27822b4254071363c78f28843ee018">https://play.library.utoronto.ca/fd27822b4254071363c78f28843ee018</a>).</p> <p>Monday: No Sebastian office hour!</p> <p>Monday: HW19 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW19.pdf">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW19.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW19.pdf</a>). It is due on Tuesday April 6 at 11:59PM.</p> <p>Monday at 11:59PM: HW18 was due.</p> <p>Tuesday: Sebastian office hour at 11AM at <a href="https://us02web.zoom.us/j/88310099689?pwd=S1dTNmJDZkRBNW5QWENWcWtyWm5QQT09">Sebastian's Zoom</a> <a href="https://us02web.zoom.us/j/88310099689?pwd=S1dTNmJDZkRBNW5QWENWcWtyWm5QQT09">https://us02web.zoom.us/j/88310099689?pwd=S1dTNmJDZkRBNW5QWENWcWtyWm5QQT09</a>) (password vchat, unusual time).</p> <p>Wednesday's class - More on Green, the Planimeter. Videos: <a href="#">SD</a> <a href="https://play.library.utoronto.ca/f795ea5bfff3230a9941ef947c5fe8ae6">https://play.library.utoronto.ca/f795ea5bfff3230a9941ef947c5fe8ae6</a>), <a href="#">HD</a> <a href="https://play.library.utoronto.ca/f706c32d8c566f9a7c850543633a5abc">https://play.library.utoronto.ca/f706c32d8c566f9a7c850543633a5abc</a>).</p> <p>This week's in-class notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_24_In-Class_Notes.pdf">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_24_In-Class_Notes.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_24_In-Class_Notes.pdf</a>).</p> <p>Friday is Good Friday; no class, no tutorial.</p>
25	April 5	<p>Monday's class - Volume forms. Videos: <a href="#">SD</a> <a href="https://play.library.utoronto.ca/5c7751c493a80f46af09705c90e83131">https://play.library.utoronto.ca/5c7751c493a80f46af09705c90e83131</a>), <a href="#">HD</a> <a href="https://play.library.utoronto.ca/18c7c8a8d8fc8d80207252df977fb895">https://play.library.utoronto.ca/18c7c8a8d8fc8d80207252df977fb895</a>).</p> <p>Monday: HW20 is on Crowdmark, with a PDF copy <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW20.pdf">here</a> <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW20.pdf">http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/HW20.pdf</a>). It is due on Monday April 12 at 11:59PM.</p> <p>Tuesday: HW19 was due at 11:59PM.</p> <p>Wednesday's class - prep for the 3D theorems. Videos: <a href="#">SD</a> <a href="https://play.library.utoronto.ca">https://play.library.utoronto.ca</a></p>

#	Week of ...	
		<p><a href="https://play.library.utoronto.ca/9c1326a235e978f9a9115ffcf5d306">/c95bf1eff4f7b04511208772a9c4964e</a>), <a href="https://play.library.utoronto.ca/9c1326a235e978f9a9115ffcf5d306">HD</a>  <a href="https://play.library.utoronto.ca/9c1326a235e978f9a9115ffcf5d306">(https://play.library.utoronto.ca/9c1326a235e978f9a9115ffcf5d306)</a>.</p> <p>A handout on <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Maxwell.pdf">Maxwell's Equations</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Maxwell.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Maxwell.pdf)</a>.</p> <p>Friday's class - the 3D theorems and prep for Maxwell. Videos: <a href="https://play.library.utoronto.ca/06cef8d95597740846dfa026fa479919">SD</a>  <a href="https://play.library.utoronto.ca/06cef8d95597740846dfa026fa479919">(https://play.library.utoronto.ca/06cef8d95597740846dfa026fa479919)</a>, <a href="https://play.library.utoronto.ca/9c3578c93759ee592cdc8fa779071c24">HD</a>  <a href="https://play.library.utoronto.ca/9c3578c93759ee592cdc8fa779071c24">(https://play.library.utoronto.ca/9c3578c93759ee592cdc8fa779071c24)</a>.</p> <p>This week's in-class notes start <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_25_In-Class_Notes.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_25_In-Class_Notes.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/2021-257-Week_25_In-Class_Notes.pdf)</a>, and continued about the Maxwell Equations <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Maxwell-Slides@210409.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Maxwell-Slides@210409.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Maxwell-Slides@210409.pdf)</a>.</p> <p>Friday's tutorial notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210409.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210409.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Tutorial-Kosenko-210409.pdf)</a>.</p>
26	April 12	<p>Monday is UofT "Makeup Day" - we will have a class at 9AM, but no Petr's "Friday" tutorial.</p> <p>Monday's class - Maxwell's equations. Videos: <a href="https://play.library.utoronto.ca/47d3455141970f08f616637248957512">SD</a>  <a href="https://play.library.utoronto.ca/47d3455141970f08f616637248957512">(https://play.library.utoronto.ca/47d3455141970f08f616637248957512)</a>, <a href="https://play.library.utoronto.ca/056efad364c34d59bdd7e9cb1350b48e">HD</a>  <a href="https://play.library.utoronto.ca/056efad364c34d59bdd7e9cb1350b48e">(https://play.library.utoronto.ca/056efad364c34d59bdd7e9cb1350b48e)</a>.</p> <p>Monday's class notes, more about the Maxwell Equations, are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Maxwell-Slides@210412.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Maxwell-Slides@210412.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/Maxwell-Slides@210412.pdf)</a>.</p> <p>Monday: HW20 due.</p> <p>Winter finals begin on Tuesday.</p> <p>Tuesday: Dror's office hours as usual, 9-10 and 12-1.</p> <p>Saturday: Peter's office hours 9-12, at <a href="https://utoronto.zoom.us/j/92163708354">Peter's Zoom</a> <a href="https://utoronto.zoom.us/j/92163708354">(https://utoronto.zoom.us/j/92163708354)</a> ↓ <a href="https://utoronto.zoom.us/j/92163708354/download?download_frd=1">(https://utoronto.zoom.us/j/92163708354/download?download_frd=1)</a> (password "vchat").</p> <p>Saturday: Dror's office hour 1-3PM (but check again right before).</p> <p>Sunday: Dror's office hour 9-11 and Peter's office hours 1-4, at <a href="https://utoronto.zoom.us/j/92163708354">Peter's Zoom</a> <a href="https://utoronto.zoom.us/j/92163708354">(https://utoronto.zoom.us/j/92163708354)</a> ↓ <a href="https://utoronto.zoom.us/j/92163708354/download?download_frd=1">(https://utoronto.zoom.us/j/92163708354/download?download_frd=1)</a> (password "vchat").</p>
WF1	April 19	<p>Monday: Petr office hour 9-11 at <a href="https://utoronto.zoom.us/j/95837717811">Petr's Zoom</a>  <a href="https://utoronto.zoom.us/j/95837717811">(https://utoronto.zoom.us/j/95837717811)</a> (password vchat). The notes are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/OfficeHours-Kosenko-210419.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/OfficeHours-Kosenko-210419.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/OfficeHours-Kosenko-210419.pdf)</a>.</p> <p>Monday: Dror's office hours 1-3.</p> <p>Tuesday April 20: Our final assessment (old speak: "final exam") will take place at 9-12 (morning, Toronto time). Info and prep questions are <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/FA-Info.pdf">here</a>  <a href="http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/FA-Info.pdf">(http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/FA-Info.pdf)</a>.</p>

#	Week of ...	
WF2	April 26	Winter Final Assessments.
	May 10	Course mark submission deadline (for the instructor) is on Tuesday.

**Further resources:**

- The University of Toronto [Faculty of Arts & Science Calendar \(https://fas.calendar.utoronto.ca/\)](https://fas.calendar.utoronto.ca/).
- Academic integrity [Information for Students \(https://www.artsci.utoronto.ca/current/academic-advising-and-support/student-academic-integrity/\)](https://www.artsci.utoronto.ca/current/academic-advising-and-support/student-academic-integrity/).
- [COVID-19 - Undergraduate Student FAQs \(https://www.artsci.utoronto.ca/covid19-artsci-student-faqs/\)](https://www.artsci.utoronto.ca/covid19-artsci-student-faqs/).
- [Recommended Technology Requirements for Remote/Online Learning \(https://www.viceprovoststudents.utoronto.ca/covid-19/tech-requirements-online-learning/\)](https://www.viceprovoststudents.utoronto.ca/covid-19/tech-requirements-online-learning/).
- Dror's 2016-17 MAT257 Analysis II [class website](http://drorbn.net/index.php?title=1617-257)  (<http://drorbn.net/index.php?title=1617-257>) and [personal notebook](http://drorbn.net/AcademicPensieve/Classes/1617-257-AnalysisII/index.html)  (<http://drorbn.net/AcademicPensieve/Classes/1617-257-AnalysisII/index.html>).
- Dror's personal [2021-257-AnalysisII](http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/)  (<http://drorbn.net/AcademicPensieve/Classes/2021-257-AnalysisII/>) notebook.