# MATH 1151      (TENTATIVE) CALENDAR      SPRING 2020

| Monday | Tuesday | Wednesday | Thursday | Friday |
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| **January 6** **First Day of Classes** Understanding functions(UF) Review of famous functions(ROFF) | 7 WORKSHEET UF, ROFF | 8 Review of famous functions(ROFF) What is a limit?(WIAL) | 9 WORKSHEET ROFF | 10 What is a limit?(WIAL) |
| 13 Limit laws(LL) **Online homework due Precalc. Rev.** | 14 WORKSHEET WIAL, LL | 15 (In)determinate forms(IF) **Online homework due WIAL, LL** | 16 **QUIZ 1** Understanding functions Review of famous functions What is a limit Limit laws WORKSHEET IF | 17 Using limits to detect asymptotes(ULTDA) |
| 20 **MLK Day – No Classes** | 21 WORKSHEET ULTDA **WH 1 due** | 22 Continuity and the Intermediate Value Theorem(CATIVT) **Online homework due** IF, ULTDA | 23 **QUIZ 2** (In)determinate forms Using limits to detect asymptotes WORKSHEET CATIVT | 24 An application of limits (AAOL) |
| 27 **REVIEW** **Online homework due CATIVT** | 28 Review **MIDTERM 1 (6:30-7:25pm)** Understanding functions-- Continuity and the Intermediate Value Theorem | 29 Definition of the derivative (DOTD) | 30 WORKSHEET AAOL, DOTD | **31** **Last day to drop w/o "W"** Derivatives as functions (DAF) |
| **February 3** Rules of differentiation (ROD) **Online homework due AAOL, DOTD** | 4 WORKSHEET DAF, ROD | 5 Product rule and quotient rule(PRAQR) **Online homework due** DAF, ROD | 6 **QUIZ 3** An application of limits Definition of the derivative Derivatives as functions Rules of differentiation WORKSHEET PRAQR | 7 Chain rule(CR) |
| 10 Higher order derivatives and graphs(HODAG) **Online homework due PRAQR** | 11 WORKSHEET CR, HODAG | 12 Implicit differentiation(ID) **Online homework due** CR, HODAG | 13 **QUIZ 4** Product rule and quotient rule Chain rule Higher order derivatives and graphs WORKSHEET ID | 14 Logarithmic differentiation (LD) Derivatives of inverse functions (DOIF) |
| 17 Derivatives of inverse functions (DOIF) **Online homework due ID** | 18 WORKSHEET LD, DOIF | 19 **REVIEW** Computation of derivatives | 20 **Computational Test** WORKSHEET Misc. | 21 More than one rate (MTOR) |
| 24 Applied related rates(ARR) **Online homework due LD, DOIF** | 25 WORKSHEET Related Rates **WH 2 due** | 26 Maximums and minimums (MAM) **Online homework due MTOR, ARR** | 27 **QUIZ 5** Implicit differentiation Derivatives of inverse functions More than one rate Applied related rates WORKSHEET MAM | 28 Maximums and minimums (MAM) Concepts of graphing functions(COGF) |

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| 2<br>**REVIEW**<br><br>*Online homework due*<br>*MAM* | 3<br>**Review**<br>**MIDTERM 2**<br>**(6:30-7:25pm)**<br>An application of limits -<br>- Maximums and<br>minimums | 4<br>Computations for<br>graphing functions(CFGF) | 5<br>WORKSHEET<br>COGF, CFGF | 6<br>Computations for<br>graphing functions(CFGF)<br><br>Mean Value<br>Theorem(MVT) |
| 9,16<br>**Spring Break** | 10,17<br>**Spring Break** | 11,18<br>**Spring Break** | 12,19<br>**Spring Break** | 13,20<br>**Spring Break** |
| 23<br>Linear approximation(LA)<br><br>*Online homework due*<br>*COGF, CFGF* | 24<br>WORKSHEET<br>MVT, LA | 25<br>Optimization(O)<br><br>*Online homework due*<br>*MVT, LA* | 26<br>**QUIZ 6**<br>Concepts of graphing<br>functions<br>Computations for<br>graphing functions<br>Mean Value Theorem<br>Linear approximation<br><br>WORKSHEET<br>Optimization | 27<br>Applied optimization(AO) |
| 30<br>L'Hospital's Rule(LHR) | 31<br>WORKSHEET<br>Optimization, LHR | April 1<br>Antiderivatives(A)<br><br>*Online homework due*<br>*O, LHR* | 2<br>**QUIZ 7**<br>Optimization<br>Applied optimization<br>L'Hospital's Rule<br><br>WORKSHEET<br>A | 3<br>Approximating the area<br>under a curve(ATAUAC) |
| 6<br>Definite Integrals(DI)<br><br>*Online homework due*<br>*A* | 7<br>WORKSHEET<br>ATAUAC, DI<br><br>**WH 3 due** | 8<br>Definite Integrals(DI)<br><br>*Online homework due*<br>*ATAUAC* | 9<br>**QUIZ 8**<br>Antiderivatives<br>Approximating the area<br>under a curve,<br>Definite integrals<br><br>WORKSHEET<br>DI | 10<br>Antiderivatives and area<br>(AAA) |
| 13<br>**REVIEW**<br><br>*Online homework due*<br>*DI* | 14<br>**Review**<br>**MIDTERM 3**<br>**(online)**<br>Concepts of graphing<br>functions -<br>- Definite Integrals | 15<br>First Fundamental<br>Theorem of<br>Calculus(FFTOC)<br><br>Second Fundamental<br>Theorem of<br>Calculus(SFTOC) | 16<br>WORKSHEET<br>AAA, FFTOC, SFTOC | 17<br>Applications of<br>integrals(AOI) |
| 20<br>The idea of substitution<br>(TIOS)<br><br>Working with substitution<br>(WWS)<br><br>*Online homework due*<br>*AAA, FFTOC, SFTOC* | 21<br>**QUIZ 9**<br>Antiderivatives and area<br>First and Second<br>Fundamental Theorem of<br>Calculus<br>Applications of integrals<br><br>WORKSHEET<br>AOI, Substitution | 22<br>Working with<br>substitution (WWS) | 23<br>WORKSHEET<br>Substitution<br><br>*Online homework due*<br>*AOI, Substitution* | 24<br>**Last Day of Classes**<br>**REVIEW**<br><br>**WH 4 due**<br>*Online textbook*<br>*assignment due* |
| 27 | 28<br><br>**Final Exam**<br>**(online)**<br>**(cumulative)** | | | |