

UBC VANCOUVER MATH 104 2020S T1 COURSE SYLLABUS

COURSE INFORMATION

Course Title	Course Code Number	Credit Value
Differential Calculus with Applications to Commerce and Social Sciences	Math 104	3 credits

SCHEDULE

Monday, Wednesday, Friday 1-3 pm

Thursday 1-2 pm

CONTACTS

Course Instructor(s)	Contact Details	Office Location	Office Hours
Abhishek Shukla	abhisheks@math.ubc.ca	AA121	Thursday 2-3 pm Friday 12-1 pm

SCHEDULE OF TOPICS FOR MATH 104 SUMMER TERM 1 2020

- May 11-15: Price-Demand curve, Limits, limit laws, continuous functions, exponential growth and compound interest
- May 18-22: derivative, rules of differentiation, chain rule, trig functions, exponential and log function, marginal cost, marginal revenue
- May 25-29: Natural logarithm, implicit differentiation, applications→ Elasticity of demand,
- May 28: MIDTERM
- June 1-5: Mean value theorem, maxima and minima
- June 8-12: optimization problems, application of derivatives
- June 15-18: Graphing functions, Taylor approximation, inverse trig functions

LEARNING MATERIALS

CLP-1 Differential Calculus textbook: freely available at <http://www.math.ubc.ca/CLP/CLP1/>

CLP-1 Differential Calculus problem book: same as above

Extra notes and problems for economics related topics (See Files in Canvas)

ASSESSMENTS OF LEARNING

- Webwork (30)
- Weekly quiz (30)
- Midterm (20)
- Final (20)

ACADEMIC MISCONDUCT

- UBC takes cheating incidents very seriously. After due investigation, students found guilty of cheating on tests and examinations are usually given a final grade of 0 in the course and suspended from UBC for one year.
- While students are encouraged to study together, they should be aware that blatant copying of another student's work is a serious breach of academic integrity. Please discuss with your instructors their expectations for acceptable collaboration on any assigned coursework. Cases of suspected cheating will be investigated thoroughly.
- Note that academic misconduct includes misrepresenting a medical excuse or other personal situation for the purposes of postponing an examination or quiz or otherwise obtaining an academic concession.

UNIVERSITY POLICIES

UBC provides resources to support student learning and to maintain healthy lifestyles but recognizes that sometimes crises arise and so there are additional resources to access including those for survivors of sexual violence. UBC values respect for the person and ideas of all members of the academic community. Harassment and discrimination are not tolerated nor is suppression of academic freedom. UBC provides appropriate accommodation for students with disabilities and for religious observances. UBC values academic honesty and students are expected to acknowledge the ideas generated by others and to uphold the highest academic standards in all of their actions. Details of the policies and how to access support are available on the <https://senate.ubc.ca/policies-resources-support-student-success> UBC Senate website.

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