

NOTE: Please feel free to use the most recent edition of textbooks referenced in this list
NOTA : Utilisez l'édition la plus récente des manuels cités dans cette liste.

18-Geol-A1 Mineralogy and Petrology

Raymond, L.A., Petrology, The study of igneous, sedimentary, and metamorphic rocks. 2nd Ed., McGraw Hill, 2002.

Perkins, D. and K. Henke, Minerals in Thin Section. 2nd Ed. Prentice Hall, 2004.

MacKenzie, W.S. and A.E. Adams, A Color Atlas of Rocks and Minerals in thin Section. J. Wiley, 1994.

Nesse, William D., Introduction to Optical Mineralogy. Oxford University Press, 2003.

Philpotts, Anthony R., Petrography of Igneous and Metamorphic Rocks. Prentice Hall, 2003.

Klein, C., Dutrow, B., The Manual of Mineral Science (after James D. Dana), 23rd Ed., John Wiley and Sons, New York, 20082.

Blatt, H. and R.J. Tracy, Petrology: Igneous, Sedimentary and Metamorphic. 2nd Ed., W.H. Freeman and Co., 1996.

Prinz, Martin, George E. Harlow, and Joseph Peters, eds. Simon and Schuster's Guide to rocks and minerals, Simon & Schuster, 1978.

18-Geol-A2 Hydrogeology

Freeze, R. Allan, and John A. Cherry, Groundwater, 604 pp. (1979). Online at:
<http://hydrogeologistswithoutborders.org/wordpress/textbook-project/>

Schwartz, F.W., and H. Zhang, Fundamentals of Ground Water, Wiley, 2003.

Domenico, P.A., and F.W. Schwartz, Physical and Chemical Hydrogeology. 2nd Ed., Wiley, 1998.

18-Geol-A3 Sedimentation and Stratigraphy

Boggs, S., Principles of Sedimentology and Stratigraphy. 3rd Ed., Prentice Hall, New York, 2001.

18-Geol-A4 Structural Geology

Fossen, Haakon, Structural geology, Cambridge University Press, 2016.

van der Pluijm, Ben A., and Stephen Marshak, Earth Structure: An Introduction to Structural Geology and Tectonics. New York, W.W. Norton, 2004.

Davis, G.H., and S.J. Reynolds, Structural Geology of Rocks and Regions. 2nd Ed., New York, John Wiley and Sons, Inc., 1996.

18-Geol-A5 Rock Mechanics

Hoek, Evert and John Bray, Rock Slope Engineering. London: Institution of Mining and Metallurgy, 1981.

Hoek, Evert and Edwin T. Brown, Underground Excavations in Rock. London: Institution of Mining and Metallurgy, 1982.

18-Geol-A6 Soil Mechanics

Coduto, D.P., Component: Geotechnical Engineering: Principles and Practices. Prentice Hall, NJ, 1999.

Lambe, T.W., Soil Testing for Engineers. BiTech Publishers, Vancouver, 1991.

18-Geol-A7 Applied Geophysics

Sharma, P.V., Environmental and Engineering Geophysics. Cambridge University Press, 1997.

Reynolds, J.M., An Introduction to Applied and Environmental Geophysics. Wiley, 1997.

Kearey, P., M. Brooks and I. Hill, An Introduction to Geophysical Exploration. 3rd Ed., Blackwell Science, 2002.

18-Geol-B1 Contaminant Hydrogeology

Fetter, C.W., Contaminant Hydrogeology. 2nd Ed., MacMillan Publishing Co., New York, 1999.

Bedient, Philip B., Hanadi S. Rifai, and Charles J. Newell, Ground Water Contamination: Transport and Remediation, 2nd edition. Upper Saddle River, NJ: Prentice Hall, 1999. <https://www.amazon.ca/Ground-Water-Contamination-Transport-Remediation/dp/0130138401>.

Council, National Research, Contaminants in the Subsurface: Source Zone Assessment and Remediation, 2004. <https://www.nap.edu/catalog/11146/contaminants-in-the-subsurface-source-zone-assessment-and-remediation> .

Domenico, P.A., and F.W. Schwartz, Physical and Chemical Hydrogeology. 2nd Ed., Wiley, 1998.

18-Geol-B2 Terrain Analysis

Mollard, J.D. and J.R. Janes, Airphoto Interpretation and the Canadian Landscape. Energy, Mines and Resources Canada, 1984. ISBN 0-660-11591-3

Required Materials for Examination:

- 1 pocket stereoscope + plates from Mollard and Janes (1984) p. 187-399 only.

18-Geol-B3 Site Investigation

Hunt, Roy E., Geotechnical engineering investigation handbook, CRC Press, 2005.

Hunt, Roy E., Geologic hazards: a field guide for geotechnical engineers, CRC Press, 2007.

Canadian Geotechnical Society, Canadian Foundation Engineering Manual. 3rd Ed. Canadian Geotechnical Society, Technical Committee on Foundations, BiTech Publishers Ltd., Richmond, British Columbia, 1992.

Nielsen, David M., (ed.). Practical Handbook of Ground-Water Monitoring. Lewis Publishers Inc., Chelsea, Michigan, 1991.

18-Geol-B4 Geomorphology and Pleistocene Geology

Easterbrook, D.J., Surface Processes and Landforms. 2nd Ed., Prentice-Hall, 1999.

Trenhaile, AS, Geomorphology: A Canadian Perspective. Oxford University Press, 1998. ISBN 0-19-541277-X

Fulton, RJ, (ed.), Quaternary Geology of Canada and Greenland. Geological Survey of Canada, 1989. ISBN 0-660-13114-5 (Any one section of Part I (Sect. 1-5), and Part II: Sect. 11, 12.)

18-Geol-B5 Environmental Geology

Keller, Edward A. (2011) Environmental Geology (9th ed.) Pearson.
Merritts D, Menking K, and DeWet A (2014) Environmental Geology: An Earth Systems Approach (2nd ed.) Macmillan.

18-Geol-B6 Resource Geology

Select **ONE** from:

18-Geol-B6-1 Petroleum Deposits

Gluyas, J.G. and R.E Swarbrick, Petroleum Geoscience. Blackwell, 2004.
Hunt, J.M., Petroleum Geochemistry and Geology. 2nd Edition, Freeman, New York, 1996.

18-Geol-B6-2 Coal Deposits

Not available at this time.

18-Geol-B6-3 Metallic and Industrial Mineral Deposits

Evans, Anthony M., Ore Geology and Industrial Minerals - An Introduction. 3rd Ed., Blackwell Science, Oxford, UK, 1993.

18-Geol-B7 Petroleum Development

Dake, L.P., The Practice of Reservoir Engineering. Elsevier, 1994.

18-Geol-B8 Resource Economics & Valuation

Gentry, D.W. and T.J. O'Neill, Mine Investment Analysis. Society of Mining Engineers, American Institute of Mining, Metallurgical, and Petroleum Engineers, New York, 1984.
Rudenno, V., The Mining Valuation Handbook. Wrightbooks, Australia, 1998.

18-Geol-B9 Exploration & Mining Geology

Evans, Anthony M., Ore Geology and Industrial Minerals - An Introduction. 3rd Ed., Blackwell Science, Oxford, UK, 1993.
Evans, Anthony M., and William L. Barrett, Introduction to Mineral Exploration. Blackwell Publications, UK, 1995.
Peters, W.C., Exploration and Mining Geology. 2nd Ed., John Wiley & Sons, Inc, 1987.

18-Geol-B10 Geophysical Exploration Methods

Select **ONE** from:

18-Geol-B10-1 Gravity and Magnetic Fields

Telford, W.M., L.P. Geldart, and R.E. Sheriff, Applied Geophysics. Cambridge University Press, 1990.

Sharma, P.V., Environmental and Engineering Geophysics. Cambridge University Press, 1997.

18-Geol-B10-2 Electrical Methods

Telford, W.M., L.P. Geldart, and R.E. Sheriff, Applied Geophysics. Cambridge University Press, 1990.

Sharma, P.V., Environmental and Engineering Geophysics. Cambridge University Press, 1997.

18-Geol-B10-3 Exploration Seismology

Telford, W.M., L.P. Geldart, and R.E. Sheriff, Applied Geophysics. Cambridge University Press, 1990.

Sharma, P.V., Environmental and Engineering Geophysics. Cambridge University Press, 1997.