

**NANYANG TECHNOLOGICAL UNIVERSITY
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Michael Hornby and Josephine Peach, *Foundations of Organic Chemistry*, Oxford University Press, 1995. (QD253.H814)

Michael Hornby and Josephine Peach, *Foundations of Organic Chemistry: Worked Examples*, Oxford University Press, 2000. (QD253.H814f)

Howard Maskill, *Mechanisms of Organic Reactions*, Oxford University Press, 1999. (QD476.M397 1999)

Michael J.T. Robinson, *Organic Stereochemistry*, Oxford University Press, 2000. (QD481.R663)

Additional Books

D. Hellwinkel, *Systematic Nomenclature of Organic Chemistry: A Directory to Comprehension and Application of Its Basic Principles*, Springer, 2001. (QD291.H477)

BS104 BIOCHEMISTRY-I – BIOMOLECULES

Prescribed Text-book

Christopher K. Mathews, K.E. van Holde, Kevin G. Ahern, *Biochemistry*, 3rd Edition, Benjamin Cummings, 2000. (Call no: QD415.M429)

David L. Nelson, Michael M. Cox Lehninger Principles of Biochemistry, 5th Edition, W.H. Freeman, 2008. (QD415.L523 2008)

Other Reference

Carl Branden, John Tooze, *Introduction to Protein Structure*, 2nd Edition, Garland Pub., 1999. (QP551.B817)

YEAR-2:

BS201 PHYSIOLOGY

Prescribed Textbook

Lauralee Sherwood, *Human Physiology: From Cells to Systems*, 6th Edition, Brooks/Cole, 2007. (Call no: QP34.5.S554 2007)

Other Reference

Eric P. Widmaier, Hershel Raff, Kevin T. Strang, *Vander's Human Physiology: The Mechanisms of Body Function*, 11th Edition, McGraw-Hill, 2008. (QP34.5.V228 2008)

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BS202 MICROBIOLOGY

Prescribed Textbook

Joanne M. Willey, Linda M. Sherwood, Christopher J. Woolverton, *Prescott, Harley, and Klein's Microbiology*, 7th Edition, McGraw-Hill, 2008 (Call no: QR41.2.W714)

BS203 ADVANCED CELL BIOLOGY

Prescribed Textbook

Bruce Alberts, *Molecular Biology of The Cell*, 5th Edition, Garland Science, 2008.
(Call no: QH581.2.M718 2008)

Harvey Lodish, *Molecular Cell Biology*, 6th Edition, W.H. Freeman and Company, 2008.
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Other References

Gerald Karp, *Cell and Molecular Biology: Concepts and Experiments*, 5th Edition, Chichester: John Wiley, 2008. (QH581.2.K18 2008)

BS204 EXPERIMENTAL MOLECULAR AND CELL BIOLOGY

Prescribed Textbook

Bruce Alberts, *Molecular Biology of The Cell*, 5th Edition, Garland Science, 2008
(Call no: QH581.2.M718)

BS205 BIostatISTICS

Prescribed Textbook

Beth Dawson, Robert G. Trapp, *Basic & Clinical Biostatistics*, 4th Edition, Lange Medical Books-McGraw-Hill, Medical Pub Division, 2004 (Call no: RA409.D272 2004)

Stanton A. Glantz, *Primer of Biostatistics*, 6th Edition, McGraw-Hill Medical Pub. Division, 2005
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YEAR-3:

BS301

NEUROBIOLOGY

Prescribed Textbook

Kandel, Schwartz and Jessel, *Principles of Neural Science*, 4th Edition; McGraw Hill
(Call no: QP355.2.P957 2000)

Squire, Bloom, and McConnell, *Fundamental Neuroscience*, 3rd Edition, Academic Press
(QP355.2.F981 2008)

Other References

Purves, Augustine, Fitzpatrick, Katz, LaMantia, and McNamara, *Neuroscience*, 4th Edition; Sinauer Associates, Inc. Publishers. (QP355.2.N494 2008)

Duane E, PhD Haines, *Fundamental neuroscience for basic and clinical applications*, 3rd edition, Elsevier Churchill Livingstone in 2006. (QP355.2.F981FN)

BS302

RESEARCH SEMINAR

Prescribed Textbook

Jan A. Pachenik, *A Short Guide to Writing about Biology*, 7th edition 2007, Pearson Longman.

Other Reference

Robert A. Day, *Scientific English: a guide for scientists and other professionals*, 2nd Edition
Phoenix, Ariz. : Oryx Press, 1995. (PE1475.D274)

David Porush, *A short guide to writing about science*, Longman, 1995. (T11.P853)

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BS305

PLANT BIOLOGY

Prescribed Text

Peter H Raven, *Biology of plants*, 7th edition 2005, W. H. Freeman (Call no: QK47.R253 2005)

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Other References

Kingsley R Stern, *Introductory plant biology*, 11th edition 2007, McGraw Hill. (QK47.S839 2008)

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BS306 DEVELOPMENTAL BIOLOGY

Prescribed Text

Scott F. Gilbert, *Developmental biology , with a chapter on plant development* by Susan R.Singer; Edition: 8th edition, Sunderland, Mass. : Sinauer Associates, Inc. Publishers, c2006.
(Call no: QL955.G466 2006)

Lewis Wolpert , *Principles of development*, 3rd edition, Oxford ; New York : Oxford University Press, c2007.(QH491.P957 2007)

J.M.W. Slack, *Essential developmental biology*, 2nd edition, Malden, MA : Blackwell Pub., c2006.
(QH491.S631 2006)

Other References

Alfonso Martinez Arias, Alison Stewart ,*Molecular principles of animal development*, Oxford University Press, 2002.(QH506.M385)

BS308 CANCER BIOLOGY

Prescribed Textbooks

Robert A. Weinberg, *The biology of cancer*, Garland Science, 2007 (Call no: RC268.4.W423)

Other References

F. Macdonald, C.H.J. Ford, A.G. Casson, *Molecular biology of cancer*, 2nd edition, London ; New York, N.Y. : BIOS Scientific Publishers, 2004.(RC268.4.M135)

L.M. Franks and N.M. Teich, *Introduction to the cellular and molecular biology of cancer*, 3rd edition, Oxford ; New York : Oxford University Press, 1997.(RC261.I61)

Bruce Alberts, *Molecular biology of the cell*, 4th edition, New York : Garland Science, c2002.
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BS309 HUMAN GENETICS

Prescribed Text book:

Tom Strachan & Andrew P. Read, *Human Molecular Genetics*, 3rd edition, Garland Science
(Call no: QH442.S894 2004)

Other Reference:

Robert L. Nussbaum, Roderick R. McInnes, Huntington F. Willard, *Thompson & Thompson Genetics in Medicine*, Revised Reprint, 7th Edition, W.B. Saunders Company. (RB155.N975 2007)

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Charles R. Scriver, *The Metabolic and Molecular Bases of Inherited Disease*, 8 edition, McGraw-Hill Professional (RC627.8.M587 V1, RC627.8.M587 V2, RC627.8.M587 V3, RC627.8.M587 V4)

YEAR-4:

BS404 CURRENT TOPICS IN BIOCHEMISTRY

Prescribed Text and Other References

Alan Fersht, *Structure and Mechanism in Protein Science: A Guide to Enzyme Catalysis and Protein Folding* (Call no: QD431.25.S85F399)

Richard B. Silverman, *The Organic Chemistry of Enzyme-Catalyzed Reactions*, 2nd Edition. (QP601.S587)

John E. McMurry, Tadhg P. Begley, *The Organic Chemistry of Biological Pathways*. (QP550.M168)

Stephen J. Lippard, Jeremy M. Berg, *Principles of Bioinorganic Chemistry*, University Science Books, 1994 (QP531.L765)

J. J. R. Fra'usto da Silva, R. J. P. Williams, *The Biological Chemistry of the Elements: The Inorganic Chemistry of Life*. (QP531.S586)

**BS405 CURRENT TOPICS IN MUSCLE BIOLOGY & NEUROMUSCULAR
DISEASES**

Prescribed Text and Other References

Andrew G. Engel, Lcara Franzini-Armstrong, *Myology, Basic and Clinical Volumes 1 & 2*, 3rd edition, McGraw-Hill Inc.(Call no: RC925.M997 V.1 & RC925.M997 V.2)

Frederic H. Martini with William C. Ober, Claire W. Garrison, Kathleen Welch and Ralph T. Hutchings, *Fundamentals of Anatomy & Physiology* ,8th edition, Prentice-Hall Inc. (QP34.5.M386 2009)

Other References

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Nicholls, Martin, and Fuch, *From Neuron to Brain*, Sinauer, 4th Edition 2001 (QP355.2.F931)

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BS409 CURRENT TOPICS IN STRUCTURAL BIOLOGY

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Branden C and Tooze J Garland, *Introductory to Protein Structure*, 2nd edition, 1999, (Call no: QP551.B817)

Feynman Leighton Sands, Addison Wesley, *Feynman Lectures on Physics* (3 volumes), (QC23.F435T)

Tom Creighton, *Proteins: Structures and molecular properties*, Freeman. (QP551.C914)

Born and Wolf, *Principles of Optics electromagnetic theory of propagation, interference and diffraction of light*, Pergamon Press. (QC355.2.B736 1999)

L Sirovitch, *Introduction to Applied Mathematics*, Springer Verlag. (QA39.2.S6121)

JF James, *A student's guide to Fourier transforms: with application in physics and engineering*, 2nd edition, Cambridge -University press. (QC20.7.F67.J27 2002)

Grant R Fowles, *Introduction to Modern Optics*, 2nd edition, Dover. (QC395.2.F789)

BS411 CURRENT TOPICS IN VIROLOGY/MICROBIOLOGY

Other References

Robert A. Bonomo, Marcelo E. Tolmasky , *Enzyme-Mediated Resistance to Antibiotics: Mechanisms, Dissemination and Prospects for Inhibition*. 1st Edition 2007 (Call no: QR177.E61)

Reference books

Joanne M. Willey, Linda M. Sherwood, Christopher J. Woolverton, *Prescott, Harley, and Klein's Microbiology*, 7th Edition, New York: McGraw-Hill, 2008. (QR41.2.W714)

BS414 FROM SYSTEMS BIOLOGY TO SYNTHETIC BIOLOGY

Other References

A. Malcolm Campbell & Laurie J. Heyer, *Discovering Genomics, Proteomics and Bioinformatics*, Benjamin Cummings, 2nd Edition (Call no: QH447.C187.2007)

BMS203 TCM DIAGNOSTICS

BS801 GENES 'R' US

Prescribed Text

Sylvia S. Mader, *Inquiry into Life*, McGraw-Hill International Edition, 12th Edition. (Call no: QH308.2.M181N 2008)

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BS804 TRADITIONAL CHINESE MEDICINE: A PRIMER COURSE

Prescribed Textbooks and Other References

Chen, Jiaxu, *Zhong yi zhen duan xue*, Zhongguo Zhong yi yao chu ban she (Call No: RC71.Z63C)

Sun, Guangren, *Zhong yi ji chu li lun*, Zhongguo Zhong yi yao chu ban she (R601.Z63J)

Deng, Zhongjia, *Fang ji xue*, Zhongguo Zhong yi yao chu ban she (RS131.64.F332J)

Gao, Xuemin, *Zhong yao xue*, Zhongguo Zhong yi yao chu ban she (RS180.C5Z63X 2002)

BS1004/FE1004 LIFE SCIENCES

Prescribed Text

N.A., Reece J.B., Thieman, W.J., Palladino, M.A. and Acquaah , *Campbell*, 2006. Pearson Custom Publishing (Call no: QH308.2.F288)

Other References

Thieman, W.J. and Palladino, M.A. *Introduction to Biotechnology*, 2nd edition 2004.
(TP248.2.R433.2009)

Acquaah, G. *Understanding Biotechnology: An Integrated & Cyber-case Approach*, 1st edition 2004
(TP248.2.A186)

Raven, Peter H. and Johnson, George B., *Biology*, 6thEdition, McGraw Hill Inc, 2008
(QH308.2.R253 2008)

Lewis, R., Gaffin, D., Hoefnagels, M. and Parker, B., *Life*, 6th edition 2007, McGraw Hill Inc.
(QH308.2.L722I 2007)

Campbell, N.A. and Reece, J.B., *Biology*, 8th edition (QH308.2.C189B 2009)