

Biomedical Sciences – Year 1

Recommended Reading List

2011-2012

SYSTEMS

Body:

Essential reading:

- [Medical Physiology](#)
Boron & Boulpaep
Elsevier Saunders (2nd revised edition 2008)
ISBN: 1416031154

OR

[Physiology](#)
Berne & Levy
Elsevier (6th edition 2009)
ISBN: 0323073622
- [Pharmacology](#)
Rang HP, Dale MM, Ritter JM & Flower R
Churchill Livingstone (6th edition 2007)
ISBN: 0443069115
- [The Oxford Handbook of Medical Sciences](#)
Wilkins, R et al.
OUP (2nd revised edition available 25 Aug, 2011)
ISBN 0199588449

Recommended further reading:

- [An Introduction to Cardiovascular Physiology](#)
Levick
Hodder Arnold (5th edition 2009)
ISBN: 0340942045
- [Respiratory Physiology](#)
West
Lippincott, Williams & Wilkins (8th edition 2008)
ISBN: 0781772068
- [Renal Physiology](#)
Koeppen & Stanton
Mosby (4th edition 2006)
ISBN: 0323034470

Brain

“Core” textbooks:

- [Neuroscience: Exploring the Brain](#)
Bear, Connors & Paradiso
Lippincott, Williams & Wilkins (3rd edition 2006)
ISBN: 9780781760034
- [Neurophysiology](#)
Carpenter
Hodder Arnold (4th edition 2002)
ISBN: 0340808721

Further Reading:

- [Cognitive Neuroscience: The Biology of the Mind](#)
Gazzaniga, Ivry & Mangun
W. W. Norton & Co (3rd edition 2008)
ISBN: 0393111369

Behaviour

- [Sensation and Perception](#)
Goldstein, EB
Wadsworth (8th edition 2007)
ISBN: 0495790796
- [Physiology of Behavior](#)
Carlson, NR
Pearson Education (10th edition 2009)
ISBN: 1408227992
- [Cognitive Psychology: A Student's Handbook](#)
Eysenck MW, Keane MT
Psychology Press (6th edition 2010)
ISBN: 1841695408
- [How Genes Influence Behaviour](#)
Flint J, Greenspan RJ, Kendler, KS
OUP (1st edition 2010)
ISBN: 0199559902

Older editions of these books are still suitable.

CELLS, MOLECULES & GENES

Cells:

- [*The Physiology of Excitable Cells*](#)
Aidley D J
Cambridge University Press (4th edition 1998)
ISBN 0521574211
- [*Rang and Dale's Pharmacology*](#)
Rang HP, Dale MM, Ritter JM & Flower R
Churchill Livingstone (7th edition 2011)
ISBN 0443069115
- [*Medical Physiology: A Cellular and Molecular Approach*](#)
Boron, W F & Boulpaep, E L
Elsevier Saunders (2nd revised edition 2008)
ISBN 1416031154

Molecules:

- [*Textbook of Biochemistry with Clinical Correlations*](#)
Devlin
John Wiley & Sons (7th edition 2010)
ISBN: 0470281731
- [*Biochemistry*](#)
Berg, Tymoczko and Stryer
WH Freeman (7th edition 2011)
ISBN: 1429276355
- [*Harper's Illustrated Biochemistry*](#)
Murray et al (eds.)
McGraw Hill/Lange (28th edition 2009)
ISBN: 0071625917

Genes:

- [*Essential Cell Biology*](#)
Alberts et al
Garland (3rd edition 2009)
ISBN: 0815341307
- [*Introduction to Genetic Analysis*](#)
Griffiths et al
Freeman (10th edition 2011)
ISBN: 1429276347
- [*Lewin's Genes X*](#)
B. Lewin, et al
Jones and Bartlett (2010)
ISBN: 0763766321

NUMERIC AND SCIENTIFIC SKILLS

Mathematics and Statistics:

- [*Foundation Maths*](#)
Croft and Davison
Prentice Hall (4th edition 2006)
ISBN: 0131979213
- [*Mathematics for Biological Scientists*](#)
Aitken, Broadhurst and Hladky
Garland Science (2009)
ISBN: 0815341369
- [*Practical Statistics for the Biological Sciences*](#)
Ashcroft and Pereira
Palgrave/Macmillan (2002)
ISBN: 978-0-333960440

Chemistry:

- [*Physical Chemistry for the Life Sciences*](#)
PW Atkins & J de Paula
OUP (2nd edition 2010)
ISBN: 0199564280
- [*Physical Biology of the Cell*](#)
R Phillips, J Kandev, J Theriot, H Garcia
Garland (2008)
ISBN: 0815341636

Physics:

- [*Introduction to Biological Physics for the Health and Life Sciences*](#)
Kirsten Franklin, Paul Muir, Terry Scott, Lara Wilcocks, Gerry Carrington, Paul Yates
John Wiley and Sons (2010)
ISBN: 978-0-470-66592-3
- [*Physics of the life sciences*](#)
Jay Newman
Springer (2008)
ISBN: 978-0-387-77258-5
- [*Physics in biology and medicine*](#)
Paul Davidovits
Academic Press (3rd edition 2008)
ISBN: 978-0-12-369411-9