



PROGRAMS AND BIBLIOGRAPHY

Subject	
Code	Name
QO653	Biochemistry II

Vector
OF:S-1 T:004 P:000 L:000 O:000 D:000 HS:004 SL:004 C:004 AV:N EX:S FM:75%

Pre requirement
QO551 QO521

Summary
Introduction to metabolism, glucose catabolism, signal transduction, glycogen metabolism, citric acid cycle, gluconeogenesis, pentoses pathway, electron transport, oxidative phosphorylation, photosynthesis, lipid metabolism, amino acid metabolism, nucleotide metabolism, integration and regulation of metabolism, introduction to expression and transmission of genetic information, protein folding, introduction to protein engineering

Program
Introduction to metabolism Glucose catabolism Signal transduction Glycogen metabolism Citric acid cycle Gluconeogenesis Pentose phosphate pathway Electron transport Oxidative phosphorylation Photosynthesis Lipid metabolism Amino acid metabolism Nucleotide metabolism Integration and regulation of metabolism Introduction to expression and transmission of genetic information Protein folding Introduction to protein engineering

Bibliography
Nelson, D.; Cox, M.; <i>Lehninger Principles of Biochemistry</i> , 4 th Ed., Freeman, 2005. Berg, J.; Tymoczko, J.; Stryer, L.; <i>Biochemistry</i> , 6 th Ed., Freeman, 2006. Voet, D.; Voet, J.; Pratt, C.; <i>Fundamentos de Bioquímica</i> , Artmed, 2000. Lodish, H.; <i>et al.</i> ; <i>Molecular Cell Biology</i> CD-ROM, 3 rd Ed., Freeman, 1996.

Evaluation criteria

For grading policy, see: Regimento Geral de Graduação, Seção I – Normas Gerais, Capítulo V – Da Avaliação do Aluno na Disciplina. Students are required to attend 75 % of the lectures. For further details, see: Regimento Geral de Graduação, capítulo VI, seção X, artigo 72.