

B.Eng. (Computer Science)

Year 1

CSC101 INTRODUCTION TO COMPUTER SYSTEMS

Prescribed Textbook

Forouzan, B. and Mosharraf, F., *Foundations of Computer Science*, Cengage Learning 2nd Edition 2008 (Call no: QA76.F727)

Brookshear, J., *Computer Science: An Overview*, Addison-Wesley 10th Edition 2009. (QA76.B873 2009)

CPE102/CSC102 INTRODUCTION TO PROGRAMMING

Prescribed Textbook

Hui Siu Cheung, *Introduction to Java Programming*, Prentice Hall 2005 2nd Edition (Call no: QA76.73.J38.H899 2005)

Other Reference

Lewis J. & Loftus W., *Java Software Solutions – Foundation of Program Design*, Addison Wesley 2009 6th Edition (QA76.73.J38.L674 2009)

Liang, Y.D., *Introduction to Java Programming, Comprehensive Version*, Prentice Hall 2009 7th Edition. (QA76.73.J38.L693 2009)

Deitel, H.M., and Deitel, P.J., *Java How to Program*, Prentice Hall 2010, 8th Edition. (Call no: QA76.73.J38D325 2010)

Savitch, W., *Java: An Introduction to Computer Science and Programming*, Prentice Hall 5th Edition 2008. (QA76.73.J38.S267 2008)

CSC103 FOUNDATION MATHEMATICS

Prescribed Textbook

Thomas G.B., Weir M.d., Hass, J. and Giordano F.R., *Thomas Calculus*, Pearson-Addison-Wesley 11th Edition 2005 (Call no: QA303.T456 2005)

Howard, A., and Rorres, C., *Elementary Linear Algebra*, Wiley & Sons 9th Edition 2005 (QA184.A634 2005)

Freund, J.E., Perles, B.M., *Modern Elementary Statistics*, Prentice Hall, 12th Edition 2007 (QA276.12.F889 2007)

Other Reference

Stewart.J., *Calculus*, Thomson Brooks/Cole, 6th edition 2008.(QA303.2.S849 2008)

Hardy. K, *Linear Algebra for Engineers and Scientists Using MATLAB*, Prentice Hall 1st Edition 2005. (QA184.2.H269)

Mendenhall, W., Beaver, R.J. and Barbara B.M. , *Introduction to Probability and Statistics*, Thomson Brooks/Cole 13th Edition 2009 (QA276.M537I 2009)

Johnson. R.A., *Miller & Freund's Probability and Statistics for Engineers*, Prentice Hall International, 7th Edition 2005 (TA340.M648 2005)

CPE104 / CSC104

LOGIC DESIGN

Prescribed Textbook

Ronald J. Tocci, Neal S. Widmer and Gregory L. Moss, *Digital Systems: Principles and Applications*, Pearson Prentice Hall 10th edition 2007 (Call no: TK7868.D5.T631 2007)

Other Reference

M. Morris Mano, *Digital Design*, Prentice-Hall International, 4th edition 2007 (TK7888.3.M285 2007)

John P.Hayes, *Introduction to Digital Logic Design*, Addison-Wesley, 1993 (TK7888.4.H417)

CPE105 / CSC105

DATA STRUCTURE AND OBJECT-ORIENTED PROGRAMMING

Prescribed Textbook

Y.D. Liang, *Introduction to Java Programming*, Prentice Hall, Core Version, 5th Edition 2005 (Call no: QA76.73.J38.L693 2005)

Y.D. Liang, *Introduction to Java Programming*, Prentice Hall, Brief Version, 7th Edition 2009 (Call no: QA76.73.J38.L693 2009)

Frank M. Carrano, Janet Prichard, *Data Abstraction and Problem Solving with Java, Walls and Mirrors, Updated Edition*, Addison Wesley, 2nd Edition 2006. (QA76.73.J38.C312 2006)

Other Reference

Harvey M. Deitel, Paul J. Deitel, *Small Java: How to Program*, Prentice Hall, 6th Edition, 2005. (QA76.73.J38D325s)

Sarwar, Koretsky, Sarwar, *Linux: The Textbook*, Addison Wesley, 2002. (QA76.76.O63.S251I)

Wu: *An Introduction To Object-Oriented Programming With Java*, McGraw Hill, 5th Edition, 2010 (QA76.64.W959 2010)

John R. Hubbard, *Schaum's Outline of Data Structures with Java*, Prentice Hall, 2005
(QA76.73.J38.F11)

Timothy Budd, *Understanding Object-Oriented Programming with Java: Updated Edition*.
Addison Wesley, 2000. (QA76.64.B927)

William H. Ford, William R. Topp, *Data Structures with Java*, Prentice Hall, 2005.
(QA76.73.J38.F711)

CSC106

DISCRETE MATHEMATICS

Prescribed Textbook

Susanna S. Epp, *Discrete Mathematics with Applications*, Thomson-Brooks/cole, 3rd Edition 2004
(Call no: QA39.2.E64 2004)

Ralph P. Grimaldi, *Discrete and Combinatorial Mathematics: An Applied Introduction*,
PearsonAddison Wesley, 5th Edition, 2004. (QA39.2.G861 2004)

Other Reference

Rosen Kenneth H., *Discrete Mathematics and Its Applications*, McGraw Hill, 6th Edition 2007
(QA39.2.R813 2003)

CPE110 / CSC110

C LANGUAGE PROFICIENCY

Prescribed Textbook

S.C. Hui, *Introduction to C Programming*, Prentice Hall, 2002 (Call no: QA76.73.C15.H899)

Other Reference

H.M. Deitel and P.J. Deitel, *C How to Program*, Prentice Hall, 5th edition 2007
(QA76.73.C15.D325 2007)

Tomasz Muldner, *C for Java Programmers*, Addison Wesley, 2000 (QA76.73.C15.M954c)