RCTC PROGRAM PLAN

BIOINFORMATICS FOUNDATIONS
Associate in Science

I. MINNESOTA TRANSFER CURRICULUM (MNTC)/
GENERAL EDUCATION REQUIREMENTS…………………………………………….40 CREDITS

GOAL 1: WRITTEN AND ORAL COMMUNICATION ..............................................11 CR
COMM 1114, Fundamentals of Public Speaking, 3 cr
ENGL 1117, Reading and Writing Critically I, 4 cr
ENGL 1118. Reading and Writing Critically II, 4 cr

GOAL 2: CRITICAL THINKING MAY BE MET BY ANY COURSE IN MNTC 1-10 GOALS

GOAL 3: NATURAL SCIENCES ................................................................................12 CR
BIOL 1220, Concepts of Biology, 4 cr
BIOL 2300, Genetics, 4 cr
CHEM 1127, Chemical Principles I, 4 cr

GOAL 4: MATHEMATICS/LOGICAL REASONING ..............................................3 CR
MATH 1119, Applied Calculus for Business Majors, 3 cr
OR
MATH 1127, Calculus I, 5 cr

GOAL 5: HISTORY AND THE SOCIAL AND BEHAVIORAL SCIENCES ................6 CR
Choose a minimum of two credits from two different areas from MNTC Goal 5

GOAL 6: HUMANITIES - THE ARTS, LITERATURE AND PHILOSOPHY ..............6 CR
Choose a minimum of two credits from two different areas from MNTC Goal 6

MNTC ELECTIVES: ................................................................................................2 CR

II. PROGRAM CORE REQUIREMENTS......................................................................19 CREDITS
COMP 1150, Computer Science Concepts, 3 cr
COMP 2243, Programming & Problem Solving, 4 cr
COMP 2247, Algorithms and Data Structure, 4 cr
MATH 2218, Discrete Mathematics, 4 cr
MATH 2350, Introduction to Mathematical Statistics, 4 cr

III. OPEN ELECTIVES............................................................................................1 CREDIT
Physical Education course recommended

TOTAL .................................................................................................................60 CREDITS

Revised: 08/10/2012
Implementation: Spring 2013