RCTC PROGRAM PLAN

BIOTECHNOLOGY
Associate in Science

I. MINNESOTA TRANSFER CURRICULUM (MNTC)/ GENERAL EDUCATION REQUIREMENTS .......................................................... 30 CREDITS
GOAL 1: WRITTEN AND ORAL COMMUNICATION ......................................................... 7 CR
COMM 1114, Fundamentals of Public Speaking, 3 cr
ENGL 1117, Reading and Writing Critically I, 4 cr

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

GOAL 3: NATURAL SCIENCES ................................................................. 13 CR
BIOL 1220, Concepts of Biology, 4 cr
BIOL 2021, Microbiology, 4 cr
PHYS 1117, Introductory Physics, 5 cr

GOAL 4: MATHEMATICS/LOGICAL REASONING ................................................. 4 CR
MATH 2208, Fundamentals of Statistics, 4 cr

GOAL 5: HISTORY AND THE SOCIAL AND BEHAVIORAL SCIENCES ................. 3 CR
PSYC 1611, Psychology of Adjustment, 3 cr

GOAL 6: HUMANITIES - THE ARTS, LITERATURE AND PHILOSOPHY ................ 3 CR
PHIL 1125, Ethics, 3 cr

II. PROGRAM CORE REQUIREMENTS ......................................................................... 30 CREDITS
BIOL 1230, Survey of Life Forms, 4 cr
BIOL 2300, Genetics, 4 cr
BIOL 2020, Introduction to Molecular Biology Methods, 4 cr
CHEM 1127, Chemical Principles I, 4 cr
CHEM 1128, Chemical Principles II, 4 cr
ENGL 1109, Introduction to Professional and Technical Communication, 3 cr
HCCC 1200, Introduction to Clinical/Research Lab, 2 cr
PHYS 1118, Introductory Physics II, 5 cr

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

ADDITIONAL NOTES:
PURPOSE: The primary goals of this educational program are:
(i) To provide a strong liberal arts and sciences education at the two-year level and facilitate
    transfer of the graduates to a four-year institution for continuation of higher education.
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(ii) To provide participants with the technical skills they need to develop the knowledge, skills and attitudes necessary to find employment as a biotechnology technician. Such technicians find employment in research and clinical labs of healthcare organizations, pharmaceutical and healthcare industry, and research institutions.

(iii) To provide participants with an understanding of dealing with human subjects, handling human material, patient bill of rights, legal and regulatory research compliance issues, privacy issues etc.; in other word a “patient care” focus.

PROGRAM ENTRANCE REQUIREMENTS:
ADMISSION:
1. High school diploma or GED.
2. Earn a grade of “C” or better in high school chemistry, biology, and algebra II or complete BIOL 1101, CHEM 1101, and MATH 0099 or equivalent.
3. Place at College level reading, writing, and calculus on the College placement test.

Revised: 05/10/2016
Implementation: Fall 2016