

BIOTECHNOLOGY

Associate in Science Degree

I. MINNESOTA TRANSFER CURRICULUM GENERAL EDUCATION REQUIREMENTS.....31 Credits

Goal 1: WRITTEN AND ORAL COMMUNICATION (CM).....7 CR

ENGL 1117	Reading & Writing Critically I	4 cr
SPCH 1114	Fundamentals of Public Speaking	3 cr

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

Goal 3: NATURAL SCIENCES (NS).....13 CR

BIOL 1220	Concepts of Biology	4 cr
BIOL 2021	Microbiology	4 cr
PHYS 1117	Introductory Physics I	5 cr

Goal 4: MATHEMATICS/LOGICAL REASONING (MA).....5 CR

MATH 1127	Calculus I	5 cr
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Goal 5: HISTORY AND the SOCIAL AND BEHAVIORAL SCIENCES (SS).....3 CR

PSYC 1611	Psychology of Adjustment	3 cr
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Goal 6: HUMANITIES – the ARTS, LITERATURE, and PHILOSOPHY (HA).....3 CR

PHIL 1125	Ethics	3 cr
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II. PROFESSIONAL REQUIREMENTS..... 29 Credits

BIOL 1230	Survey of Life Forms	4 cr
BIOL 2300	Genetics	4 cr
BIOL 2020	Fundamentals of Biotechnology	3 cr
CHEM 1127	Chemical Principles I	4 cr
CHEM 1128	Chemical Principles II	4 cr
ENGL 1109	Technical Writing	3 cr
HCCC 1200	Introduction to Clinical/Research Lab	2 cr
PHYS 1118	Introductory Physics II	5 cr

TOTAL CREDITS.....60 Credits

For more information contact:

http://www.rctc.edu/counseling_career_center/pdf/AdvisorList-2008-09.pdf

BIOTECHNOLOGY A.S. DEGREE
Course sequence

Fall Year 1

ENGL 1117 4 CR
MATH 1127 5 CR
CHEM 1127 4 CR
BIOL 1220 4 CR
17 CR

Fall Year 2

PHYS 1117 5 CR
BIOL 2021 4 CR
PSYC 1611 3 CR
ENGL 1109 3 CR
15 CR

Spring Year 1

BIOL 1230 4 CR
CHEM 1128 4 CR
BIOL 2020 3 CR
HCCC 1200 2 CR
13 CR

Spring Year 2

PHYS 1118 5 CR
BIOL 2300 4 CR
SPCH 1114 3 CR
PHIL 1125 3 CR
15 CR

Total credits: 60

Program Objectives: 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.***
- (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 words a "patient care" focus.***

Admissions Requirements:

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

Implemented: Fall 2009
Revised: 07/01/2009
Reviewed: 07/2009

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