RCTC PROGRAM PLAN

INFORMATION TECHNOLOGY
Associate in Applied Science

I. MINNESOTA TRANSFER CURRICULUM (MnTC)/
GENERAL EDUCATION REQUIREMENTS...20 CREDITS

GOAL 1: WRITTEN AND ORAL COMMUNICATION ....8 CR
ENGL 1117, Reading and Writing Critically I, 4 cr
ENGL 1118, Reading and Writing Critically II, 4 cr

GOAL 4: MATH...3 CR
MATH 1115, College Algebra, 3 cr

GOAL 5: HISTORY AND THE SOCIAL AND BEHAVIORIAL SCIENCES ....9 CR
GEOG 1614, Human Geography, 3 cr
ECON 1101, Introduction to Economics, 3 cr
POLS 1615, Introduction to American Government, 3cr

II. PROGRAM CORE REQUIREMENTS...28 CREDITS
COMP 1140, Into to Database & SQL, 3 cr
COMP 1150, Computer Science Concepts, 3 cr
COMP 1741, JavaScript, 3 cr
COMP 1751, Mobile Application Development, 3 cr
COMP 2243, Programming & Problem Solving, 4 cr
COMP 2247, Algorithms and Data Structure, 4 cr
DSCI 2253, Software Applications for Analyzing Data, 3 cr
DSCI 2257, Programming Libraries for Analyzing Data, 3 cr
COMP 2501, Capstone Course, 2 cr

III. PROGRAM ELECTIVE COURSES..12 CREDITS
Elective courses are any course numbered 1000 or above to reach 60 total credits. Students should consult with their advisor to select the appropriate electives based off their plan after graduation.

Recommended electives on the attached sheet come from ACCT, ART, BUS, COMM, MATH, PHIL, PHYS, SMGT.

TOTAL .... 60 CREDITS

PROGRAM OUTCOMES:

Upon completion of the Information Technology program at RCTC, students will achieve the following outcomes:

- Apply current technical practices in core information technologies.
- Identify effective solutions for organizations or individuals.
- Evaluate current and emerging technologies.
- Demonstrate independent problem-solving skills.

RECOMMENDED ELECTIVES:

ACCT 2217, Principles of Accounting I, 4 cr
ART 1120, Computer as Creative Media (MnTC 6), 3 cr
BUS 2240, Project Management, 3 cr
BUS 1144, Entrepreneurship, 3 cr
BUS 2143, Social Media Management Strategies, 3 cr
BUS 2150, Global Business, 3 cr
BUS 2202, Consumer Promotion and Digital Marketing, 3 cr
COMM 1000, Introduction to Workplace Communication, 3 cr
COMM 1114, Fundamentals of Public Speaking, 3 cr
COMM 1130, Interpersonal Communication (MnTC 1, 7), 3 cr
COMM 1337, Social Media (MnTC 5), 3 cr
COMM 2100, Intercultural Communication (MnTC 1, 8), 3 cr
COMM 2130, Team/Small Group Communication (MnTC 1), 3 cr
COMP 1010, Linux Operating Systems, 3 cr
COMP 1080, Networking Protocols and Analysis, 4 cr
COMP 1112, Introduction to Computers With Applications, 3 cr
COMP 1731, Programming for the Internet, 3 cr
COMP 2048, Introduction to Cybersecurity, 4 cr
COMP 2049, Cybersecurity Systems, 4 cr
COMP 2275, Computer Architecture, 4 cr
MATH 1117, Pre-Calculus (MnTC 4), 4 cr
MATH 2208, Fundamentals of Statistics (MnTC 4), 4 cr
MATH 2218, Discrete Mathematics, 4 cr
PHIL 1050, Computing and AI Ethics (MnTC 6, 9), 3 cr
PHIL 1125, Ethics (MnTC 6, 9,), 3 cr
PHIL 2130, Business Ethics (MnTC 6, 9), 3 cr
PHYS 1101, Elements of Physics (MnTC 6, 9), 3 cr
PHYS 1103, Principles of Physics (MnTC 6, 9), 3 cr
SMGT 1115, Strategies for Personal Leadership (MnTC 3), 3 cr
SMGT 1125, Leadership Development & Ethics (MnTC 3), 3 cr
SMGT 1221, Decision Making & Problem-Solving Skills (MnTC 11), 3 cr

Revised: 09/10/2024
Implementation: Fall 2025