

RIDGEWATER COLLEGE

Hutchinson Campus

FY 2009 - 2010 Educational Plan

Engineering Technology Program

Automated Systems Engineering Technician A.A.S. Degree (72 Credits)

First Year Fall

	Credits
NDT 1100 Manufacturing Processes.....	2
MSET 1814 Basic Electricity	2
DRFT 1503 Interpret Engr Drawings	2
DRFT 2950 Spec Projects/Topics (Electrical)	1
MMDT 1001 Solving Computer Problems.....	2
MACT 1801 Fund Prec Mfg.....	3

First Year Spring

ENGT 1203 Control Systems I.....	3
ENGT 1221 Process Controls.....	2
MSET 1815 D.C. Circuits Fundamentals	3
DRFT 1502 CAD I.....	3

Second Year Fall

CST 1794 Introduction to Programming.....	2
ENGT 1205 Electro Mechanical Devices	3
ENGT 2203 Control Systems II.....	3
MSET 1816 A.C. Circuits	4

Second Year Spring

CST 1801 Visual Basic I.....	3
NDT 2020 Quality Improvement Tools and Tech.	2

Technical Electives from list (11 credits) 11

Total Technical Credits 51

Suggested Electives

ENGT 1505 Predictive Maintenance.....	2
ENGT 1301 Fluid Power	2
ENGT 1103 Mechanical Systems	2
ENGT 1211 Industrial Electricity	3
ENGT 2105 Motion Controls I	3
ENGT 2900 Internship	1-5
ENGT 2950 Special Projects (Ind. Study).....	1-5
WELD 1600 Weld for Drafters.....	2
or WELD 1190 NDT Welding	
CST 1510 System Diagnostics.....	3
CST 1025 Networking Basics.....	3

General Studies (1 credit required)

	Credits
GSWS 1451 First Aid/Safety.....	1

General Education (20 credits required)

Category 1 Communication

ENGL 121 College Composition I.....	3
SPCH 121 Introduction to Communication	3

Category 3 Natural Sciences

PHYS 100 Concepts in Physics.....	4
CHEM 100 Introduction to Chemistry	4
or CHEM 101 Survey of Chemistry	

Category 4 Mathematical/Logical Reasoning

MATH 109 Elements of Algebra and Trig.....	4
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Any General Education Category

MN transfer curriculum approved course.	2
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Total General Studies/Education Credits 21