

**RIDGEWATER COLLEGE**  
**Hutchinson Campus**  
**FY 2009 - 2010 Educational Plan**  
**Engineering Technology Program**  
Automated Systems Technician Diploma (57 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** (6 credits required)

	Credits
GSWS 1451 First Aid/Safety.....	1
GSCM 1102 Applied Written Communication.....	2
GSMS 1222 Applied Elementary Algebra .....	2
GSWS 1401 Employment Prep and Retention.....	1

**Total General Studies** ..... 6