

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2006

PLAN OF STUDY

Effective Fall Semester
2006-2007

INDUSTRIAL SYSTEMS TECHNOLOGY (A50240)

Associate Degree
Day and Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

| Course Title | Class | Hours | | | Grade | Semester | Remarks |
|------------------------------|----------------------------------|-------|--------|---|-------|----------|---------|
| | | Lab | Credit | | | | |
| 6 Semesters | | | | | | | |
| FALL SEMESTER, 2006 | | | | | | | |
| ELC 112 | DC/AC Electricity | 3 | 6 | 5 | | | |
| ENG 111 | Expository Writing | 3 | 0 | 3 | | | |
| HYD 110 | Hydraulics/Pneumatics I | 2 | 3 | 3 | | | |
| ISC 112 | Industrial Safety | 2 | 0 | 2 | | | |
| MAT 121 | Algebra/Trigonometry I* | 2 | 2 | 3 | | | |
| SPRING SEMESTER, 2007 | | | | | | | |
| ELC 117 | Motors and Controls | 2 | 6 | 4 | | | |
| ENG 112 | Argument-Based Research | 3 | 0 | 3 | | | |
| MNT 240 | Industrial Equip Troubleshooting | 1 | 3 | 2 | | | |
| PHY 110 | Conceptual Physics | 3 | 0 | 3 | | | |
| PHY 110A | Conceptual Physics Lab | 0 | 2 | 1 | | | |
| SUMMER TERM, 2007 | | | | | | | |
| DFT 117 | Technical Drafting | 1 | 2 | 2 | | | |
| ELC 215 | Electrical Maintenance | 2 | 3 | 3 | | | |
| MEC 111 | Machine Processes I | 2 | 3 | 3 | | | |
| PLU 111 | Intro to Basic Plumbing | 1 | 3 | 2 | | | |
| FALL SEMESTER, 2007 | | | | | | | |
| AHR 110 | Intro to Refrigeration | 2 | 6 | 5 | | | |
| BPR 111 | Blueprint Reading | 1 | 2 | 2 | | | |
| CIS 110 | Introduction to Computers | 2 | 2 | 3 | | | |
| WLD 112 | Basic Welding Processes | 1 | 3 | 2 | | | |
| SPRING SEMESTER, 2008 | | | | | | | |
| AHR 112 | Heating Technology | 2 | 4 | 4 | | | |
| MNT 110 | Intro to Maintenance Procedures | 1 | 3 | 2 | | | |
| MNT 230 | Pumps and Piping Systems | 1 | 3 | 2 | | | |
| WLD 121 | GMAW (MIG) FCAW/Plate | 2 | 6 | 4 | | | |
| | Humanities Elective | 3 | 0 | 3 | | | |
| | Social Science Elective | 3 | 0 | 3 | | | |

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| Required Courses Credit Hours | 63 |
| Humanities Elective Credit Hours | 3 |
| Social Science Elective Credit Hours | 3 |
| TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE | 69 |

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.