

Manufacturing Engineering Technology BS Course sequence (Typical)

Catalog - 2004/2005

Total undergraduate credits 124

Freshman (fall)

| | |
|-------|--|
| 3 | TECH 211 - Computer-Aided-Design |
| 3 | MATH155 - Trigonometry |
| 3 | CHEM 110 (or CHEM 210T) - General Chemistry I |
| 1 | CHEM 111 (or CHEM 212) - General Chemistry Lab I |
| 3 | ENGL103 - Composition I |
| 3 | General Education Requirement #1 |
| <hr/> | |
| 16 | |

Sophomore (fall)

| | |
|-------|---|
| 4 | MATH230 - Calculus II |
| 4 | PHYS250 - General Physics |
| 3 | COMS 100 - Communications I |
| 3 | TECH175 - Electronics and Electricity Fundamentals |
| 1 | TECH175a - Electronics and Electricity Fundamentals Lab |
| <hr/> | |
| 15 | |

Junior (fall)

| | |
|-------|---|
| 3 | TECH 326 - Fluid Mechanics/Lab |
| 3 | TECH 393 - Properties of Materials |
| 3 | TECH 369 - Strength of Materials |
| 3 | ENGL 308 - Tech writing |
| 3 | Tech 312 - Geometric design and Tolerancing |
| <hr/> | |
| 15 | |

Senior (fall)

| | |
|-------|--|
| 1 | TECH 477 - Senior Projects I |
| 3 | General Education Requirement #4 |
| 3 | TECH 420 Computer-Integrated Manufacturing |
| 3 | Manufacturing System Elective 2 |
| 3 | TECH 391 - Industrial Quality Control |
| 3 | Manufacturing Process Elective 3 |
| <hr/> | |
| 16 | |

Manufacturing Systems Electives (2 courses)

TECH 334 - Hazard Control
TECH 401 - Ethics
TECH 402 - Industrial Training
TECH 404 - Industrial Supervision
TECH 409 - Internship
TECH 429 - Plant location, Layout, and Material Handling
TECH 434 - Human Factors in Accident Prevention
TECH 442 - Work Simplification
TECH 444 - Production Systems
TECH 482 - Industrial Safety Analysis
TECH 496 - Industrial Project Management

Freshman (Spring)

| | |
|-------|--|
| 4 | MATH229 - Calculus I |
| 3 | ENGL104 - Composition II |
| 3 | TECH 265 - Basic Manufacturing Processes |
| 3 | General Education Requirement #2 |
| 3 | TECH 262 - Machine Production Processes |
| <hr/> | |
| 16 | |

Sophomore (Spring)

| | |
|-------|--|
| 3 | Manufacturing Process Elective 1 |
| 3 | General Education Requirement #3 |
| 2 | TECH 210 - Engineering Mechanics |
| 2 | TECH 212 - Engineering Dynamics |
| 3 | STAT 208 - Basic Statistics |
| 3 | TECH 295 - Manufacturing Computer Applications |
| <hr/> | |
| 16 | |

Junior (Spring)

| | |
|-------|---|
| 3 | Manufacturing Process Elective 2 |
| 3 | TECH 342 - Manufacturing Component Design |
| 3 | TECH 425 - Programmable Logic Controllers |
| 3 | Manufacturing System Elective 1 |
| 3 | TECH 443 - Engineering Economy |
| <hr/> | |
| 15 | |

Senior (Spring)

| | |
|-------|--|
| 3 | TECH478 - Senior Project II |
| 3 | TECH 362 - Numerical Control Systems |
| 3 | TECH 423 - Automated Manufacturing Systems |
| 3 | General Education Requirement #5 |
| 3 | General Education Requirement #6 |
| <hr/> | |
| 15 | |

Manufacturing Process Electives (3 courses)

TECH 260 - Metal Fabrication Processes
TECH 314 - Tool and Die Design
TECH 344 - Materials & Processes in the Plastics Industry
TECH 345 - Plastic Molding Processes
TECH 364 - Advanced Numerical Control Programming
TECH 365 - Metrology
TECH 479 - Special Topics in Engineering Technology