

AGRICULTURAL SYSTEMS TECHNOLOGY CURRICULUM
Machine Systems option 120 credits required for graduation (2013-2014 Catalog)

Interpersonal and Public Communication Skills (13 credits)

- | | | | |
|---|--------------------|---|--|
| 3 | ENGL 150 (F.S.SS.) | Critical Thinking and Communications | |
| 3 | ENGL 250 (F.S.SS.) | Written, Oral, Visual, and Electronic Composition | |
| 3 | { | ENGL 302 (F.S.SS.) | Business Communication, or |
| | | ENGL 309 (F.S.) | Report and Proposal Writing, or |
| | | ENGL 314 (F.S.SS.) | Technical Communication, or |
| | | AGEDS 327 (F.S.) | Advanced Communication for Agriculture and Life Sciences |
| 3 | { | SP CM 212 (F.S.SS.) | Fundamentals of Public Speaking, or |
| | | AGEDS 311 (F.S.) | Presentation and Sales Strategies for Agricultural Audiences, or |
| | | COMST 214 (F.S.) | Professional Communications |
| 1 | LIB 160 (F.S.SS.) | Information Literacy | |

Mathematical, Physical, and Life Sciences (26 credits)

- | | | | |
|---|---------------------|--|-------------------------|
| 3 | MATH 142 (F.S.SS.) | Trigonometry and Analytic Geometry | |
| 4 | MATH 160 (F.S.) | Survey of Calculus | |
| 5 | PHYS 111 (F.S.) | General Physics | |
| 3 | STAT 104 (F.S.SS.) | Introduction to Statistics | |
| 4 | CHEM 163 (F.S.SS.) | General Chemistry | |
| 1 | CHEM 163L (F.S.SS.) | Laboratory in General Chemistry | |
| 3 | { | BIOL 101 (F.S.SS.) | Introductory Biology or |
| | | BIOL 211 (F.S.) | Principles of Biology I |
| 3 | Life Sciences | (College of Agriculture and Life Sciences list)
http://www.agstudent.iastate.edu/agriculturestudentservices/life_science.htm | |

Business, Humanities, Ethics and Social Sciences (18 credits)

Certain courses in this section may be double counted to fulfill more than one academic requirement. Check with your advisor and this link for more details:

<http://www.abe.iastate.edu/undergraduate-students/advising-for-ast-i-tech/>

- | | | |
|-----------------------------|----------------------------|--|
| 3 | ACCT 284 (F.S.SS.) | Financial Accounting |
| 3 | ECON 101 (F.S.SS.) | Principles of Microeconomics |
| 3 | Ethics Course | TSM 370 (S.) Occupational Safety |
| From approved lists: | | |
| 3 | Humanities | (College of Agriculture and Life Science list)
www.agstudent.iastate.edu/agriculturestudentservices/humanities.htm |
| 3 | International Perspectives | (University list)
www.iastate.edu/%7eregistrar/courses/ip-list.html |
| 3 | U.S. Diversity | (University list)
www.iastate.edu/~registrar/courses/diversity-list.html |

Technology Core (30 credits)

- | | | |
|---|-------------------|---|
| 1 | TSM 110 (F.) | Introduction to Technology |
| 1 | TSM 111 (S.) | Experiencing Technology |
| 3 | TSM 115 (F.S.) | Solving Technological Problems |
| 3 | TSM 116 (F.S.) | Introduction to Design in Technology |
| 1 | TSM 201 (F.S.) | Preparing for Workplace Seminar |
| 3 | TSM 210 (F.S.) | Fundamentals of Technology |
| 3 | TSM 270 (F.) | Principles of Injury Prevention |
| 3 | TSM 310 (S.) | Total Quality Improvement |
| 4 | TSM 363 (S.) | Electric Power and Electronics for Agriculture and Industry |
| R | TSM 397 (F.S.SS.) | Internship in Technology |
| 2 | TSM 399 (F.S.SS.) | Work Experience in Technology |
| 1 | TSM 415 (F.S.) | Technology Capstone I |
| 5 | TSM 416 (F.S.) | Technology Capstone II |

Option Core (25 credits)

- | | | |
|---|-----------------|--|
| 3 | TSM 216 (F. S.) | Advanced Technical Graphics, Interpretation, and CAD |
| 3 | TSM 240 (F.S.) | Introduction to Manufacturing Processes |
| 3 | TSM 330 (S.) | Agricultural Machinery and Power Management |
| 3 | TSM 333 (F.) | Precision Farming Systems |
| 4 | TSM 335 (F.) | Tractor Power |
| 3 | TSM 337 (S.) | Fluid Power Systems Technology |
| 3 | TSM 443 (S.) | Statics and Strength of Materials for Technology |
| 3 | TSM 465 (S.) | Automation Systems |

Electives (8 credits)

Electives to strengthen degree