

**AGRICULTURAL SYSTEMS TECHNOLOGY CURRICULUM****Agricultural and Biosystems Management option 120 credits required for graduation (2015-2016 Catalog)****Interpersonal and Public Communication Skills (13 credits)**

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|---|---|---|--|----------------------|
| 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.)<br>ENGL 309 (F.S.)<br>ENGL 314 (F.S.SS.)<br>AGEDS 327 (F.S.) | Business Communication, <b>or</b><br>Report and Proposal Writing, <b>or</b><br>Technical Communication, <b>or</b><br>Advanced Communication for Agriculture and Life Sciences |  |                      |
| 3 |   | { SP CM 212 (F.S.SS.)<br>AGEDS 311 (F.S.)<br>COMST 214 (F.S.)   | Fundamentals of Public Speaking, <b>or</b><br>Presentation and Sales Strategies for Agricultural Audiences, <b>or</b><br>Professional Communications |                      |
| 1 |   |   | LIB 160 (F.S.SS.)  | Information Literacy |

**Mathematical, Physical, and Life Sciences (25 credits)**

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|---|---|---|
| 3 | MATH 145 (F.S.)                         | Applied Trigonometry  |
| 3 | MATH 151 (F.S.SS.)                      | Calculus for Business and Social Sciences   |
| 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.)<br>BIOL 211 (F.S.) | Introductory Biology <b>or</b><br>Principles of Biology I   |
| 3 |   | Life Sciences<br>(College of Agriculture and Life Sciences list)<br><a href="http://www.agstudent.iastate.edu/agriculturestudentservices/life_science.htm">http://www.agstudent.iastate.edu/agriculturestudentservices/life_science.htm</a> |

**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/>

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|---|--------------------|----------------------------------|
| 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:**

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|---|----------------------------|--|
| 3 | Humanities                 | (College of Agriculture and Life Science list)<br><a href="http://www.agstudent.iastate.edu/agriculturestudentservices/humanities.htm">www.agstudent.iastate.edu/agriculturestudentservices/humanities.htm</a> |
| 3 | International Perspectives | (University list)<br><a href="http://www.iastate.edu/%7eregistrar/courses/ip-list.html">www.iastate.edu/%7eregistrar/courses/ip-list.html</a>  |
| 3 | U.S. Diversity             | (University list)<br><a href="http://www.iastate.edu/~registrar/courses/diversity-list.html">www.iastate.edu/~registrar/courses/diversity-list.html</a>  |

**Technology Core (30 credits)**

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|---|-------------------|---|
| 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 (F.)      | 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 (21 credits)**

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|---|---------------|---|
| 2 | TSM 322 (S.)  | Preservation of Grain Quality               |
| 1 | TSM 322L (S.) | Preservation of Grain Quality Laboratory    |
| 3 | TSM 324 (S.)  | Soil and Water Conservation Management      |
| 3 | TSM 325 (F.)  | Biorenewable Systems                        |
| 3 | TSM 327 (F.)  | Animal Production Systems                   |
| 3 | TSM 330 (S.)  | Agricultural Machinery and Power Management |
| 3 | TSM 333 (F.)  | Precision Farming Systems                   |
| 3 | ECON 230      | Farm Business Management                    |

**Electives (13 credits)**

Electives to strengthen degree