**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** (25 credits)

3MATH 145X (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.) 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](http://www.agstudent.iastate.edu/agriculturestudentservices/humanities.htm)

3 International Perspectives (University list)

[www.iastate.edu/%7eregistrar/courses/ip-list.html](http://www.iastate.edu/%7eregistrar/courses/ip-list.html)

3 U.S. Diversity (University list)

[www.iastate.edu/~registrar/courses/diversity-list.html](http://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 (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)

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