**Interpersonal and Public Communication Skills** (13 credits)

3 ENGL 1500 (F.S.SS.) Critical Thinking and Communications

3 ENGL 2500 (F.S.SS.) Written, Oral, Visual, and Electronic Composition

3 ENGL 3020 (F.S.SS.) Business Communication, **or**

ENGL 3090 (F.S.) Report and Proposal Writing, **or**

ENGL 3140 (F.S.SS.) Technical Communication, **or**

AGEDS 3270 (F.S.) Advanced Communication for Agriculture and Life Sciences

3 SP CM 2120 (F.S.SS.) Fundamentals of Public Speaking, **or**

AGEDS 3110 (F.S.) Presentation and Sales Strategies for Agricultural Audiences, **or**

COMST 2140 (F.S.) Professional Communications

1 LIB 1600 (F.S.SS.) Introduction to College Level Research

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

3MATH 1450 (F.S.) Applied Trigonometry

3 MATH 1510 (F.S.SS.) Calculus for Business and Social Sciences

4 PHYS 1310 (F.S. SS) General Physics I

1 PHYS 1310L (F.S. SS) General Physics I Laboratory

3 STAT 1040 (F.S.SS.) Introduction to Statistics

4 CHEM 1630 (F.S.SS.) College Chemistry

1 CHEM 1630L (F.S.SS.) Laboratory in General Chemistry

3 BIOL 1010 (F.S.SS.) Introductory Biology **or**

BIOL 2110 (F.S.) Principles of Biology I **or**

BIOL 2120 (F.S.) Principles of Biology II **or**

BIOL 2510 (S.) Biological Processes in the Environment

3 Life Sciences (College of Agriculture and Life Sciences list)

<http://www.cals.iastate.edu/student-services/life-science>

**Business, Humanities, Ethics and Social Sciences** (18 credits). Certain courses in this section may fulfill more than one academic requirement.

3 ACCT 2840 (F.S.SS.) Financial Accounting  
 ACCT 2150 (F.S.SS.) Legal Environment of Business

3 ECON 1010 (F.S.SS) Principles of Microeconomics

3 TSM 3700 (F.S.) Occupational Safety (meets Ethics requirement)

3 Humanities (**From approved lists:** College of Agriculture and Life Science list)

<http://www.cals.iastate.edu/student-services/humanities>

3 International Perspectives (**From approved lists**: University list)

<http://www.registrar.iastate.edu/students/div-ip-guide/IntlPerspectives-current>

3 U.S. Cultures and Communities (**From approved lists:** University list)

<https://www.registrar.iastate.edu/students/div-ip-guide/uscultures-courses>

**Technology Core** (30 credits)

1 TSM 1100 (F.) Introduction to Technology

1 TSM 1110 (F.S.) Experiencing Technology

3 TSM 1150 (F.S.) Solving Technology Problems

3 TSM 1160 (F.S.) Introduction to Design in Technology

1 TSM 2010 (F.S.) Preparing for Workplace Seminar

3 TSM 2100 (F.S.) Fundamentals of Technology

1 TSM 2140 (F.S.) Managing Technology Projects

3 TSM 2700 (F.S.) Principles of Injury Prevention

3 TSM 3100 (F.S.) Total Quality Improvement

4 TSM 3630 (F.S.) Electrical Power and Control Systems for Agriculture and Industry

R TSM 3970 (F.S.SS.) Internship in Technology

2 TSM 4150 (F.S.) Applied Project Management in Technology

3 TSM 4160 (F.S.) Technology Capstone

**Option Core** (25 credits)

3 TSM 3220 (S.) Preservation of Grain Quality

1 TSM 3220L (S.) Preservation of Grain Quality Laboratory

3 TSM 3240 (S.) Soil and Water Conservation Management

3 TSM 3250 (F.) Biorenewable Systems

3 TSM 3270 (F.) Animal Production Systems

3 TSM 3300 (S.) Agricultural Machinery and Power Management

3 TSM 4330 (F.) Precision Agriculture

3 TSM 4550 (F.) Feed Processing and Technology

3 ECON 2300 (F.S.) Farm Business Management

**Electives** (11 credits) Electives to strengthen degree