AGRICULTURAL SYSTEMS & INDUSTRIAL TECHNOLOGY CURRICULUM

Occupational Safety (2007-2009 Catalog)

128.5 credits required for graduation

Interpersonal and Public Communication Skills (12.5 credits)

6	Engl 150 (F.S.SS)	Critical Thinking and Communications and
	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

3 SpCm 212 (F.S.SS) Fundamentals of Public Speaking, or

AgEdS 311 (F.S) Presentation and Sales Strategies for Agricultural Audiences

0.5 Lib 160 (F.S.SS) Library Instruction

Mathematical, Physical, and Life Sciences (26 credits)

3	Math 142 (E 6 667	Trigonometry and Analytic and	
9	1V1au1 1+4 (1.0.00)	ingonomeny and Analytic and	

4 Math 160 (F.S) Survey of Calculus; or

4 Math 165 (F.S.SS) Calculus I

4 Physics 111 (F.S.SS)
4 Physics 112 (F.S.SS)
3 Stat 104 (F.S.SS)
General Physics
Introduction to Statistics

Chem 163 (F.S.SS)
Chem 163L (F.S.SS)
General Chemistry and
Laboratory in General Chemistry

1 Chem 163L (F.S.SS) Laboratory in General Chemistry 3 Life Sciences See Departmental List

Departmental List for Life Science

Biology

3	BIOL 155 ((FS)	Human Biology

BIOL 101 (F.S.SS)
BIOL 211 (F.S)
BIOL 273 (F.S)
BIOL 173 (F.S)
Introductory Biology; or Principles of Biology; or Environmental Biology; or

Natural Resources Ecology and Management

3 NREM 120 (F.S) Introduction to Renewable Resources; or

Biochemistry, Biophysics, and Molecular Biology

3 BBMB 221 (F) Structure and Reactions in Biochemical Processes

Humanities, Ethics and Social Sciences (15 credits)

3 Econ 101 (F.S.SS) Principles of Microeconomics

From approved lists:

3 Humanities (College of Agriculture list)

www.agstudent.iastate.edu/agriculturestudentservices/humanities.htm

3 Ethics Course (College of Agriculture list)

http://www.agstudent.iastate.edu/agriculturestudentservices/ethicslist.html

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)

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1	TSM 110 (F)	Introduction to Technology
1	TSM 111 (S)	Experiencing Technology

1 TSM 201 (S) Entrepreneurship and Internship Seminar

1 TSM 301 (S) Ethics and Leadership Seminar

1 TSM 401 (F) Senior Seminar

TSM 115 (F.S.)
TSM 210 (F)
Solving Technological Problems
Fundamentals of Technology

3 TSM 116 (F.S) Introduction to Design in Technology

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4	TSM 363 (F)	Electric Power and Electronics for Agriculture and Industry
3	TSM 270 (F)	Principles of Injury Prevention
3	TSM 310 (S)	Total Quality Improvement
2	TSM 399 (F.S.SS)	Work Experience in Technology
R	TSM 397 (F.S.SS)	Internship in Technology
2	TSM 415 (F.S.)	Technology Capstone I
2	TSM 416 (F.S.)	Technology Capstone II

Business Core (6 credits)

3	ACCT 284 (F.S.SS)	Financial Accounting
3	ECON 330 (F.S)	Farm Business Management or

3 ECON 336 (F) Agricultural Selling **or**

3 ECON 355 (F.S)
3 MGMT 370 (F.S.SS)
3 MGMT 414 (F)
International Trade and Finance or Management and Organization or International Management

Option Core (33 credits)

3	TSM 240 (F)	Introduction to Manufacturing Processes
2	TSM 272 (F)	Introduction to Occupational Safety

2 TSM 372 (F) Legal Aspects of Occupational Safety and Health

3 TSM 276 (F) Fire Protection and Prevention

3 TSM 370 (S) Occupational Safety

3 TSM 470 (S) Industrial Hygiene: Physical, Chemical, and Biological Hazards

1 TSM 471 (S) Safety Laboratory 3 TSM 477/577 (F) System Safety Analysis

3 I E 271 (S) Applied Ergonomics and Work Design

2 H S 105 (F.S) First Aid and Emergency Care

8 Technical Electives See Departmental List

Technical Elective List for Occupational Safety Option (IT):

3 BIOL 255 Fundamentals of Human Anato
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1 BIOL 255L Fundamentals of Human Anatomy Laboratory

3 BIOL 256 Fundamentals of Human Physiology

1 BIOL 256L Fundamentals of Human Physiology Laboratory

Chemistry

3 CHEM 231 Elementary Organic Chemistry

1 CHEM 231L Elementary Organic Chemistry - Laboratory

Environmental Studies

2 ENV S 201 Introduction to Environmental Issues

3 ENV S 260 Soils and Environmental Quality (Note: also cross-listed as Agron 260)

2 ENV S 324 Energy and the Environment 3 ENV S 482 Environmental Politics and Policies

3 ENV S 491 Environmental Law

Health Studies

3 HS 110	Personal and Consumer Health

3 HS 215 Drug Education

2 HS 305 Instructor's First Aid and Cardio-pulmonary Resuscitation

3 HS 310 Community and Public Health

3 HS 350 Human Diseases

3 HS 380 Worksite Health Problems

History

3 HIST 484 Science, Technology, Medicine, and Public Policy

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3 HIST 488 History of American Technology 3 HIST 489 History of American Science

Industrial Engineering

3 IE 576 Human Factors and Product Design

Management

3 MGMT 371 Organizational Behavior

Psychology

3 PSYCH 450 Industrial Psychology

Technology

Any 300 level or higher TSM and AE course not required in the technology or option cores.

Free Elective (3 credits)