

**INDUSTRIAL TECHNOLOGY CURRICULUM**  
**Occupational Safety 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, <b>or</b>
		ENGL 309 (F.S.)	Report and Proposal Writing, <b>or</b>
		ENGL 314 (F.S.SS.)	Technical Communication, <b>or</b>
		AGEDS 327 (F.S.)	Advanced Communication for Agriculture and Life Sciences
3	{	SP CM 212 (F.S.SS.)	Fundamentals of Public Speaking, <b>or</b>
		AGEDS 311 (F.S.)	Presentation and Sales Strategies for Agricultural Audiences, <b>or</b>
		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 <b>or</b>
		BIOL 211 (F.S.)	Principles of Biology I
3	BIOL 155 (F.S.)	Human Biology	

**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) <a href="http://www.agstudent.iastate.edu/agriculturestudentservices/humanities.htm">www.agstudent.iastate.edu/agriculturestudentservices/humanities.htm</a>
3	International Perspectives	(University list) <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) <a href="http://www.iastate.edu/~registrar/courses/diversity-list.html">www.iastate.edu/~registrar/courses/diversity-list.html</a>

**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** (22 credits)

3	TSM 240 (F.S.)	Introduction to Manufacturing Processes
2	TSM 371 (S.)	Occupational Safety Management
2	TSM 372 (odd F.)	Legal Aspects of Occupational Safety and Health
3	TSM 376 (even F.)	Fire Protection and Prevention
3	TSM 470 (even S.)	Industrial Hygiene: Physical, Chemical, and Biological Hazards
1	TSM 471 (even S.)	Safety Laboratory
3	TSM 477 (even F.)	Risk Analysis and Management
2	H S 105 (F.S.)	First Aid and Emergency Care
3	PSYCH 250	Psychology of the Workplace

**Electives** (11 credits)

Electives to strengthen degree