**Southwestern Community College Transfer Guide**

**Southwestern Community College / Iowa State University
Department of Agriculture and Biosystems Engineering**

**Agricultural Power and machinery engineering option**

SWCC Catalog; ISU 2012-2013 Catalog

**Recommended Core Courses for Agricultural & Biosystems Engineering Students with an emphasis on Agricultural Power and Machinery:**

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| ***SWCC Courses*** | ***Title*** | ***Cr.*** | ***ISU Course*** |
|  |  |  |  |
| **Communications** |  |  |  |
| ENG 105 | Composition I | 3 | ENGL 150 |
| ENG 106 | Composition II | 3 | ENGL 250 |
| SPC 101 | Fundamentals of Oral Communication | 3 | SPCM 212 |
|  |  |  |  |
| **Mathematical Sciences** |  |  |  |
| MAT 210 | Calculus I | 4 | MATH 165 |
| MAT 216 | Calculus II | 4 | MATH 166 |
| MAT 225 | Differential Equations | 3 | MATH 266 |
|  |  |  |  |
| **Physical Sciences** |  |  |  |
| PHY 212 | Classical Physics I (with lab) | 5 | PHYS 221 |
| PHY 222 | Classical Physics II (with lab) | 5 | PHYS 222 |
| CHM 166Both must be taken to equal Chem 167/167L | General/Inorganic Chemistry I | 3 | CHEM 177 |
|  | General/Inorganic Chemistry I Lab | 1 | CHEM 177L |
| CHM 176 | General/Inorganic Chemistry II | 3 | CHEM 178 |
|  | General/Inorganic Chemistry II Lab | 1 | CHEM 178L |
|  |  |  |  |
| **Biological and/or Natural Resource Sciences** |  |  |
| BIO 112 | General Biology I | 3 | BIOL 211 |
|  |  |  |  |
| **Social Sciences and Humanities** *(6 credits needed)* |  |  |  |
| ANT 105 | Cultural Anthropology | 3 | ANTHR 201 |
| ART 203 | Art History I | 3 | ART H 280 |
| ART 204 | Art History II | 3 | ART H 281 |
| SPC 122 | Interpersonal Communication | 3 | COMST 102 |
| ECN 120 | Principles of Macroeconomics | 3 | ECON 102 |
| ECN 130 | Principles of Microeconomics | 3 | ECON 101 |
| LIT 101 | Introduction to Literature | 3 | ENGL 201 |
| LIT 105 | Children’s Literature | 3 | HD FS 240 |
| HIS 110 | Western Civilization: Ancient to Early Modern | 3 | HIST 201 |
| HIS 111 | Western Civilization: Early Modern to Present | 3 | HIST 202 |
| HIS 151 | U.S. History to 1877 | 3 | HIST 221 |
| HIS 152 | U.S. History since 1877 | 3 | HIST 222 |
| MUS 100 | Music Appreciation | 3 | MUSIC 102 |
| PHI 101 | Introduction to Philosophy | 3 | PHIL 201 |
| PHI 105 | Introduction to Ethics | 3 | PHIL 230 |
| POL 111 | American National Government | 3 | POL S 215 |
| PSY 111 | Introduction to Psychology | 3 | PSYCH 101 |
| PSY 121 | Developmental Psychology | 3 | PSYCH 230 |
| PSY 251 | Social Psychology | 3 | PSYCH 280 |
| REL 101 | Survey of World Religions | 3 | RELIG 205 |
| SOC 110 | Introduction to Sociology | 3 | SOC 134 |
| SOC 115 | Social Problems | 3 | SOC 235 |
| SOC 120 | Marriage and Family | 3 | SOC 219 |
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| **International Perspective** *(3 credits needed)* |  |  |  |
| ANT 105 | Cultural Anthropology | 3 | ANTHR 201 |
| ART 203 | Art History I | 3 | ART H 280 |
| ART 204 | Art History II | 3 | ART H 281 |
| HIS 110 | West Civilization: Ancient to Early Modern | 3 | HIST 201 |
| HIS 111 | West Civilization: Early Modern to Present | 3 | HIST 202 |
| MUS 100 | Music Appreciation | 3 | MUSIC 102 |
| REL 101 | Survey of World Religion | 3 | RELIG 205 |
| FLS 142 | Elementary Spanish II\* | 4 | SPAN 102 |
|  | *\*or higher level foreign language course* |  |  |
|  |  |  |  |
| **U.S. Diversity** *(3 credits needed)* |  |  |  |
| LIT 105 | Children’s Literature | 3 | HD FS 240 |
| SOC 115 | Social Problems | 3 | SOC 235 |
|  |  |  |  |
| *A total of 65 community college credits can be transferred to Iowa State University.* |