**Undergraduate Curriculum in Agricultural Systems Technology**

**Machine Systems Option**

2024-2025-Catalog – Total Credits 120

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| Fall Semester 1 (16 cr.) | Spring Semester 2 (15 cr.) |

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| 1 | TSM 1100 – Introduction to Technology (F) | 1 | TSM 1110 – Experiencing Technology (FS) |
| 3 | TSM 1160 – Intro to Design in Technology (FS) | 3 | TSM 1150 – Solving Tech Problems (FS) |
| 3 | ENGL 1500 – Critical Thinking & Comm (FSSS) | 3 | MATH 1510 – Calculus for Business & Social Sci (FSSS) |
| 1 | LIB 1600 – Intro to College Level Research (FSSS) | 4 | PHYS 1310 – General Physics 1 (FSSS) |
| 3 | MATH 1450 – Applied Trigonometry (FS) | 1 | PHYS 1310L – General Physics 1 Lab (FSSS) |
| 4 | CHEM 1630 – College Chemistry (FSSS) | 3 | U.S. Cultures and Communities – See List |
| 1 | CHEM 1630L – Lab in College Chemistry (FSSS) |  |  |

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| Fall Semester 3 (16 cr.) | Spring Semester 4 (16 cr.) |

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| 1 | TSM 2010 – Preparation for Workplace Seminar (FS) | 3 | TSM 2700 – Principles of Injury Prevention (FS) |
| 3 | TSM 2100 – Fundamentals of Technology (FS) | 3 | Business – Choose one:  ACCT 2150 – Legal Environment of Business (FSSS)  ACCT 2840 – Financial Accounting (FSSS) |
| 1 | TSM 2140 – Managing Technology Projects (FS) | 1 | Choose one:  ABE 2710 – SolidWorks (FS);  ABE 2720 – CREO(FS);  ABE 2730 – 2D AutoCAD (S) |
| 3 | TSM 2400 – Intro Adv. Manufacturing & Metals (FS) | 3 | STAT 1040 – Intro to Stats (FSSS) |
| 3 | ENGL 2500 – Writing/Oral/Visual/Elec Comp (FSSS) | 3 | Life Science Biology – Choose one:  BIOL 1010 – Intro Biology (FSSS);  BIOL 2110 – Prin. of Biology I (FS);  BIOL 2120 – Prin. of Biology II (FS);  BIOL 2510 – Biological Proc. in the Env. (S) |
| 3 | Life Science – See List (FSSS) |
| 2 | TSM 2160 – Adv. Graphics, Interpretation, CAD (FS) | 3 | ECON 1010 – Principles of Microeconomics (FSSS) |

Summer Semester 2 (R cr.)  
TSM 3970 - Internship in Technology

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| Fall Semester 5 (14 cr.) | | Spring Semester 6 (15 cr.) | |
| 4 | TSM 3350 – Tractor Power (F) | 3 | TSM 3100 – Total Quality Improvement (FS) |
| 4 | TSM 3630 – Elect. Pwr & Cntrl Systems Ag & Ind (FS) | 3 | TSM 3300 – Ag Machinery & Power Management (S) |
| 3 | TSM 4330 – Precision Agriculture (F) | 3 | TSM 3370 – Fluid Power Systems Technology (FS) |
| 3 | Major Communication – Choose one:  ENGL 3020 – Business Communication (FSSS);  ENGL 3090 – Proposal & Report Writing (FS);  ENGL 3140 – Technical Communication (FSSS);  AGEDS 327 – Survey Ag & Life Sciences Comm (FS) | 3 | Humanities – See List (FSSS) |
|  |  | 3 | International Perspective – See List (FSSS) |

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| Fall Semester 7 (16 cr.) | | Spring Semester 8 (12cr.) | |
| 2 | Elective (FSSS) | 3 | TSM 3700 – Occupational Safety (FS) |
| 2 | TSM 4150 – Applied Project Mgmt. in Tech (FS) | 3 | TSM 4160 – Technology Capstone (FS) |
| 3 | TSM 4430 – Statics & Strengths of Mat. for Tech (FS) | 3 | TSM 4650 – Automation Systems (FS) |
| 6 | Electives (FSSS) | 3 | Elective (FSSS) |
| 3 | CALS Communication – Choose one:  SPCM 2120 – Fundam. of Public Speaking (FSSS);  COMST 2140 – Professional Communications (FS);  AGEDS 3110 – Pres. & Sales Strat. Ag Audiences (FS) |  |  |

“See list” – Refer to your APR for options for each list. NOTE: This is an example four-year plan. Your actual semester schedules may vary. Updated 2/27/2024