

# GRADUATE STUDENT COURSES APPENDIX 6

## Graduate Class Offerings and Delivery 2023

| Key                                                                                          |
|----------------------------------------------------------------------------------------------|
| In Person                                                                                    |
| Online                                                                                       |
| Dual Delivery (Variations include different offerings per term or dual delivery within term) |
| Independent                                                                                  |

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| CLASSES                                                                                 | CROSSLISTINGS                                                        |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| AGRO 801 Biology of Plant Pathogens                                                     | PPLT 801, HORT 801                                                   |
| Pathogens                                                                               | PPLT 802, HORT 802                                                   |
| AGRO 803: Scientific Writing and Communication                                          | PLAS 403, HORT 803                                                   |
| AGRO 804: Soil Science Research Methods                                                 |                                                                      |
| AGRO 806 Plant Ecophysiology: Theory and Practice                                       | HORT 806, NRES 406, NRES 806, PLAS 406                               |
| AGRO 807: Plant-Water Relations                                                         | NRES 807                                                             |
| AGRO 808: Microclimate: The Biological Environment                                      | WATS 408, GEOG 808, HORT 808, METR 808, NRES 808                     |
| AGRO 809A: Case Studies in Plant Breeding: Breeding for Disease Resistance              | PLAS 409A, HORT 809A                                                 |
| AGRO 809B: Case Studies in Plant Breeding: Transgenic Strategies for Disease Resistance | PLAS 409B, HORT 809B                                                 |
| AGRO 810: Plant Molecular Biology                                                       | BIOC 810, HORT 810                                                   |
| AGRO 811: Crop Genetic Engineering                                                      | PLAS 411                                                             |
| AGRO 812: Crop and Weed Genetics                                                        | PLAS 412                                                             |
| Management                                                                              | HORT 813, TLMT 813                                                   |
| AGRO 814: Turfgrass Disease Management                                                  | 814                                                                  |
| AGRO 815: Applied Plant Breeding and Genetics                                           | PLAS 415                                                             |
| AGRO 815A: Self-pollinated Crop Breeding                                                | ENTO 815A                                                            |
| AGRO 815B: Germplasm and Genes                                                          | ENTO 815B                                                            |
| AGRO 815D: Cross-pollinated Crop Breeding                                               | ENTO 815D                                                            |
| AGRO 816A: Heterosis                                                                    |                                                                      |
| AGRO 816B: Haploids and Doubled Haploids in Plant Breeding                              |                                                                      |
| AGRO 816E: Genotype by Environment Interaction                                          |                                                                      |
| Application                                                                             | PLPT 817, HORT 817                                                   |
| AGRO 818: Agricultural Biochemistry                                                     | BIOC 818                                                             |
| AGRO 819 Applications of Remote Sensing in Agriculture and Natural Resources            | PLAS 419, GEOG 419, GEOL 419, NRES 420, GEOG 819, GEOL 819, NRES 820 |
| Agriculture                                                                             | PLAS 420                                                             |
| AGRO 821: Learning Biotechnology                                                        | HORT 821                                                             |
| AGRO 822: Integrated Weed Management                                                    | HORT 822                                                             |
| AGRO 823X: Production Systems                                                           | HORT 823X                                                            |
| Management                                                                              | HORT 824                                                             |
| AGRO 825: Cover Crops in Agroecosystems                                                 | PLAS 425                                                             |
| AGRO 826: Invasive Plants                                                               | PLAS 426, HORT 826, NRES 426, NRES 826                               |
| AGRO 827: Turfgrass Systems Management                                                  | PLAS 427, HORT 827, TLMT 827                                         |
| AGRO 828: Scientific Illustration                                                       | ENTO 828, AGRI 828, HORT 828                                         |
| AGRO 829: Plant Biotechnology Applications                                              | PLAS 429                                                             |
| AGRO 829A: Food Security: A Global Perspective                                          | PLAS 429A, HORT 829A, NRES 429A, NRES 829A, NUTR 429A, NUTR 829A     |
| AGRO 831: Spatial Variability in Soils                                                  |                                                                      |
| AGRO 832: Learning Plant Science                                                        | HORT 832                                                             |
| AGRO 833: Molecular Plant Breeding                                                      |                                                                      |

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| AGRO 834: Plant Biochemistry                                    | PLAS 434, BIOC 434, BIOS 434, CHEM 434, BIOC834, BIOS 834, CHEM 834                                     |
| AGRO 835: Agroecology                                           | PLAS 435, NRES 435, NRES 835                                                                            |
| AGRO 836: Agroecosystems Analysis                               | PLAS 436, HORT 836                                                                                      |
| Grain                                                           | PLAS 437                                                                                                |
| AGRO 838: Producing Grain for Animal, Food, and Industrial Uses | PLAS 438                                                                                                |
| AGRO 839: Organic Farming and Food Systems                      | PLAS 439, HORT 839                                                                                      |
| AGRO 840: Great Plains Ecosystem                                | GRAS 440                                                                                                |
| AGRO 841: Perennial Plant Function, Growth, and Development     | PLAS 441, HORT 441, RNGE 441, GRAS 441                                                                  |
| AGRO 842: Wildland Plants                                       | GRAS 442                                                                                                |
| AGRO 843: Ecology of Invasive Species                           |                                                                                                         |
| AGRO 844: Ecosystem Monitoring and Assessment                   | GRAS 444                                                                                                |
| Pasture                                                         | 445                                                                                                     |
| AGRO 846: Forage Quality                                        | ASCI 824                                                                                                |
| AGRO 847: Grassland Fire Ecology                                |                                                                                                         |
| AGRO 848: Grassland Monitoring and Assessment                   |                                                                                                         |
| AGRO 849: Watershed Management in Grasslands                    |                                                                                                         |
| AGRO 850: Climate and Society                                   | PLAS 450, GEOG 450, METR 450, NRES 452, GEOG 850, METR 850, NRES 852                                    |
| AGRO 851: Grassland Plant Identification                        |                                                                                                         |
| AGRO 852: Grazing Ecology and Management                        |                                                                                                         |
| AGRO 854: Specialty Crop Innovations                            | PLAS 454, HORT 854                                                                                      |
| AGRO 855: Soil Chemistry and Mineralogy                         | PLAS 455, NRES 455, NRES 855, SOIL 455                                                                  |
| AGRO 858: Soil Physical Determinations                          | PLAS 458, NRES 458, NRES 858, SOIL 458                                                                  |
| AGRO 860: Soil Microbial Ecology                                | PLAS 460, BIOS 460, NRES 460, SOIL 460, BIOS 860, NRES 860                                              |
| AGRO 861: Soil Physics                                          | 861                                                                                                     |
| AGRO 862: Cannabis Growth, Production, and Breeding Basics      | PLAS 462, HORT 862                                                                                      |
| AGRO 869: Bio-Atmospheric Instrumentation                       | NRES 469, GEOG 869, HORT 807, METR 869, AGST 869, NRES 869                                              |
| AGRO 872: Applied Soil Physics                                  | 472                                                                                                     |
| AGRO 875: Water Quality Strategy                                | 475, CIVE 475, CIVE 875, CRPL 475, CRPL 875, GEOL 475, GEOL 875, AGST 475, AGST 875, POLS 475, POLS 875 |
| AGRO 878: Plant Anatomy                                         | BIOS 478, BIOS 878, PLAS 478, HORT 878                                                                  |
| AGRO 880: Modified Root Zones                                   | PLAS 480, TLMT 880, HORT 880                                                                            |
| AGRO 884: Water Resources Seminar                               | WATS 484, NRES 884, GEOG 884, GEOL 884, WATS 884                                                        |
| AGRO 888: Entrepreneurship and Enterprise Development           | PLAS 488, HORT 888, EAEP 488, ENTR 488, EAEP 888, ENTR 888, ABUS 488                                    |
| AGRO 889: Urbanization of Rural Landscapes                      | PLAS 489, CRPL 489, HORT 889, CRPL 889                                                                  |
| AGRO 894: Graduate Degree Project Credits                       | HORT 894                                                                                                |
| AGRO 896, Section 001: Independent Study                        | PLAS 496, RNGE 496, SOIL 496                                                                            |

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| AGRO 896, Section 002: Rangeland Research                                   | PLAS 496           |
| AGRO 896, Section 004: Advanced Crop Genomics                               |                    |
| AGRO 896, Section 002: Soil Carbon and Nitrogen Dynamics                    |                    |
| AGRO 896, Section 009: Molecular Plant Breed                                |                    |
| Issues                                                                      | AGRO 496, PLAS 496 |
| AGRO 896, Section 003: Rangeland Research                                   | AGRO 496, PLAS 496 |
| AGRO 896, Section 005: Weed Contest Prep                                    | AGRO 496, PLAS 496 |
| AGRO 896, Section 007: Fire Ecology & Management                            | AGRO 496, PLAS 496 |
| AGRO 896, Section 792: Soil Study Course                                    | AGRO 496, PLAS 496 |
| AGRO 896, Section 301: Design and Analysis of Unreplicated Field Experience |                    |
| AGRO 896, Section 591: Range Shortcourse                                    | AGRO 496, PLAS 496 |
| AGRO 896, Section 005: Weed Contest Prep                                    | AGRO 496, PLAS 496 |
| AGRO 896, Section 006: Interplant Competition                               |                    |
| AGRO 896, Section 150,151: Plant Biotechnology Applications plus Lab        | AGRO 496, PLAS 496 |
| AGRO 896, Section 791: Network Science Applied to Agronomical Systems       |                    |
| South                                                                       | AGRO 496, PLAS 496 |
| AGRO 896, Section 101: Exploring the Culture of Agriculture                 | AGRO 496           |
| AGRO 896, Section 102: Outreach Communications                              | AGRO 496           |
| Experimentation                                                             |                    |
| AGRO 896, Section 795: Field Research: Design, Analysis, and Rep            |                    |
| AGRO 896, Section 008: Plant Physiology                                     | AGRO 496           |
| AGRO 896, Section 003: Hybrid Breeding: Theory, Design, and Decisions       |                    |
| AGRO 896, Section 791: Production Systems                                   | HORT 896           |
| AGRO 896, Section 001: Applied Plant Breeding and Genetics                  | PLAS 496           |
| AGRO 896, Section 009: Independent Research                                 | AGRO 496, PLAS 496 |
| AGRO 896, Section 010: Specialty Crop Innovaton                             | PLAS 496           |
| AGRO 896, Section 700: Applied Plant Breeding and Genetics                  | PLAS 496           |
| AGRO 896, Section 750: Independent Study                                    | AGRO 496, PLAS 496 |
| AGRO 896, Section 796: Organic Weed Management for Small Farms and Gardens  | PLAS 496           |
| AGRO 896, Section 991: Urban Food Systems                                   |                    |
| AGRO 896, Section PO2: Exploring the Curlture of Agriculture                | PLAS 496           |
| AGRO 896, Section 005: Introduction to Plant Diagnostics                    | PLAS 391A          |
| AGRO 701: Hybrid Breeding: Theory, Design, and Decisions                    |                    |

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| AGRO 896: Section 700: Independent Study          | AGRO 496, PLAS 496                     |
| AGRO 897: Master of Applied Science Project       | AGRI 897, HORT 897, NRES 897, ASCI 897 |
| AGRO 899: Masters Thesis                          |                                        |
| AGRO 902: Foundations of Ecological Resilience    | NRES 902                               |
| AGRO 906: Crop Growth and Yield Modeling          | NRES 906                               |
| AGRO 919: Advanced Crop Genetics and Genomics     | HORT 919                               |
| AGRO 931: Population Genetics                     | ASCI 931, HORT 931                     |
| AGRO 932: Biometrical Genetics and Plant Breeding | STAT 847                               |
| AGRO 940: Forage Evaluation                       | ASCI 924                               |
| AGRO 963: Genetics of Host-Parasite Interaction   | HORT 963, PLPT 963                     |
| AGRO 965: Plant Virology                          | PLPT 965, HORT 965                     |
| AGRO 968: Seminar in Plant Pathology              | PLPT 968, HORT 968                     |
| AGRO 985: Soil Carbon and Nitrogen Dynamics       | NRES 985, SOIL 985                     |
| AGRO 991: Seminar Presentation and Evaluation     | HORT 991                               |
| AGRO 992: General Seminar                         | HORT 992, NRES 992                     |
| AGRO 996: Research in Crops                       |                                        |
| AGRO 996A: Research in Soils                      | NRES 996A                              |
| AGRO 999: Doctoral Dissertation                   | HORT 999                               |