

**The United Graduate School of Agricultural Sciences Iwate University
Dual Ph.D. Program Course Curriculum**

| | University | Specialty | Courses | Credits |
|---|---|--|---|------------------------------------|
| Compulsory (Choose here 8 credits) | UGAS | Common Graduate School Courses | Communication for Science Camp | 1 |
| | | | Ethics and Research | 0 |
| | | Bioproduction Science | Advanced Course in Bioproduction | 1 |
| | | | Advanced Research in Bioproduction | 6 |
| | | Bioresources Science | Advanced Course in Bioresources | 1 |
| | | | Advanced Research in Bioresources | 6 |
| | | Cryobiosystems Science | Advanced Course in Cryobiosystems | 1 |
| | | | Advanced Research in Cryobiosystems | 6 |
| | | Biotic Environment Science | Advanced Course in Biotic Environment | 1 |
| | | | Advanced Research in Biotic Environment | 6 |
| Compulsory common courses | U of S | Plant Science | PLSC Seminar | 0 |
| | | | PLSC 996.0 research | 0 |
| | | | GSR 960.0 Ethics course | 0 |
| | | | GSR 961.0 if research involves human subjects | 0 |
| | | | GSR 962.0 if research involves animal subjects | 0 |
| | | | GSR981 Canadian Academic Acculturation and Literacy for International Graduate Students | 0 |
| | | | GSR984 Thinking Critically: Professional Skills for Global Citizens | 0 |
| | | | GSR989 Introduction to University Teaching | 0 |
| | | | Online Safety Orientation Course | 0 |
| | | | Elective Courses (Choose 5 credits including courses at the U of S) | UGAS (Choose 2 credits from here) |
| Special Lectures in Agricultural Sciences (Jap) | 1 | | | |
| Advanced Seminars in Bioproduction | 1 | | | |
| Advanced Seminars in Bioresources | 1 | | | |
| Advanced Seminars in Biotic Environment | 1 | | | |
| Science Communication in English | 1 | | | |
| Applied Statistics | 1 | | | |
| Research Internship | 2 | | | |
| Communication for International Conference | 1 | | | |
| Bioproduction | Education and Research Guidance in Bioproduction | 1 | | |
| Bioresources | Education and Research Guidance in Bioresources | 1 | | |
| Cyrobiosystems | Education and Research Guidance in Cyrobiosystems | 1 | | |
| Biotic Environment | Education and Research Guidance in Bioric Environment | 1 | | |
| U of S (Choose 3 credits from here) | Plant Science | PL SC 812.3 Physiological Plant Ecology | | 3 |
| | | PLSC 813.3 Statistical Methods in the Life Sciences | | 3 |
| | | PISC 814.3 Topics in the Physiology of Crop Plants (Physiology of Yield Formation) | | 3 |
| | | PL SC 815.3 Applied Plant Cytogenetics | | 3 |
| | | PLSC 816.3 Quantitative Genetics | | 3 |
| | | PLSC 823.3 Landscape Ecology and Vegetation Management | | 3 |
| | | PLSC825.3 Applied Plant Biotechnology | | 3 |
| | | PLSC827.3 Molecular Basis of Grain Quality | | 3 |
| | | PLSC865.3 Plant Abiotic Stress | | 3 |
| | | PLSC881.3 Host-Pathogen Interactions and Breeding for Disease Resistance in Plants | | 3 |
| PLSC898.3 Ecology of Weeds and Invasive Plants | 3 | | | |
| PLSC898.3 Plant Genomes | 3 | | | |