



AGRI4990 - 01

Controlled Environment Agriculture (CEA) Principles & Applications

Course description: This overview course introduces the principles of Controlled Environment Agriculture (CEA) and major applications in this field. The course covers different types of controlled environments and their management. Topics include environmental factors, plant physiology, technologies, cultural issues, hazards encountered in CEA settings, harvest and post-harvest practices, automated production, and business questions. **3 credit hours for students enrolled at University of Wyoming and at Community Colleges around the State.**

Participating Entities: Plant Science, Botany, School of Computing, Engineering, Accounting & Finance, Family & Consumer Sciences, Plant Growth & Phenotyping Facility, CEA Center, Science Initiative, College of Agriculture Greenhouse Complex & Industry Partners

8 Total Weeks (May 28th through July 18th):

- **MWF: 50 minutes cross-disciplinary class** with UW faculties/researchers and guest lecturers from CEA businesses
- **3-6 hours weekly common lab activities** to build, analyze and discuss production systems
- Opportunities for participating in CEA-related concurrent and future research projects on campus
- Opportunities for participating in internships with (in-state and out-of-state) CEA businesses all year round after class completion

Students will receive a stipend of **\$1300** and lodging/meals for non-resident.

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