

Required Courses

Indoor Agriculture Certificate

TERM 1	
1	CEA 1000 - Fundamentals of Controlled Environment Agriculture Students will learn the essential elements and practices of Controlled Environment Agriculture (CEA) in this foundational course. This course introduces students to various CEA systems, regulations, and operational requirements within this emerging sector.
	CEA 1010 - Business and Economics of Controlled Environment Agriculture Upon completion of the course, students will have a basic understanding of the business aspects of varied Controlled Environment Agriculture (CEA) systems, including introductory market research techniques, and awareness of operational logistics, preparing them for further exploration in the field of CEA.
3	CEA 1020 - Principles of Crop Production in Controlled Environments In this course, students explore the relationship between plants, their physiology, and growing requirements within controlled environments. Students will learn how to optimize plant growth and productivity while ensuring sustainable and efficient nutrient management practices.
	CEA 1030 - Controlled Environment Agriculture Systems & Components This course provides students with an understanding of Controlled Environment Agriculture (CEA) Systems and components. Students will explore and compare the principles, technologies, and environmental components involved in a wide variety of CEA systems.
5	CEA 1040 - Operating Controlled Environment Systems Through hands-on learning, students will gain practical experience with optimizing crop production and diagnosing problems while minimizing environmental impact. By the end of the course, students will have the necessary skills to operate and troubleshoot systems, incorporating integrated pest management and waste management in Controlled Environment Agriculture (CEA) systems.
	WIL 1600 Field Placement Experience (optional) Students will create a learning plan for their field study, and instructors will provide guidance in finding an appropriate field study location, specific to their industry and program of study. Each student will complete a 6-8 week (minimum 200 hours) industry placement as a course requirement. Students must maintain Good Academic Standing, according to Policy D32 (Academic Standing), to be enrolled in this course.
6	