

AGRI-TECH-TURE®

CAPSTONE COMPETITION

Candidate Registration Handout + Student Guide

Building the Future of

Food • Engineering • Construction •
Entrepreneurship

Academic Year 2026–2027

Complete this form to receive the Zoom orientation invitation. Students who attend the webinar will receive the download code for the official Competition Manual.

Candidate Participation Questionnaire

Full Name: <i>Type here</i>	School / University: <i>Type here</i>
Major / Area of Study: <i>Type here</i>	Expected Graduation Date: <i>Month / Year</i>
Email Address: <i>Type here</i>	Mobile Phone for Text Messages: <i>Type here</i>
Instagram / TikTok: <i>Type here</i>	LinkedIn / Other Social Media: <i>Type here</i>
Classification: ☐ Freshman ☐ Sophomore ☐ Junior ☐ Senior ☐ Graduate	Webinar Attendance: ☐ Yes ☐ No
Brief Interest Statement: <i>In one or two sentences, explain why you want to participate in the competition.</i> _____ _____	

Preferred Competition Role

☐ Team Leader / Project Manager	☐ Business Development	☐ Market Research
☐ Architecture / Facility Design	☐ Engineering / Systems Design	☐ Construction / Estimating
☐ Agriculture / Aquaponics	☐ Finance / Cost Modeling	☐ Technology / Digital Systems

Communication Consent: By submitting this form, I agree to receive emails and text messages related to the webinar, competition updates, and manual access instructions.

Signature: _____ Date: _____

WEBINAR ACCESS

1. Submit questionnaire
2. Receive Zoom link
3. Attend orientation
4. Receive manual code

CONDENSED STUDENT INSTRUCTIONAL PUBLICATION

Agri-Tech-Ture Capstone Competition | Two-Semester Student Experience

Program Purpose

The Agri-Tech-Ture Capstone Competition is an interdisciplinary student competition that challenges college students to develop a complete business, design, engineering, construction, and operations plan for a modern agricultural technology facility.

Students will work like founders, designers, engineers, builders, operators, and community problem-solvers while creating a facility-based business concept tied to food production and community impact.

Core Questions

- What food-related problem are we solving?
- Who are our customers and users?
- What facility, technology, and production systems are required?
- How much will it cost and how long will it take to build?
- How will the company operate and generate revenue?

Who Should Participate

The competition is open to students across engineering, architecture, construction, agriculture, business, finance, technology, environmental science, entrepreneurship, marketing, and communications.

Mechanical Eng.	Aerospace Eng.
Civil Eng.	Electrical Eng.
Digital Systems	Architecture
Construction Mgmt.	Agriculture
Aquaponics	Finance
Marketing	Entrepreneurship

1	2	3	4
Complete Questionnaire	Receive Zoom Link	Attend Webinar	Download Manual Code

Competition Structure and Academic Timeline

Timeframe	Focus	Primary Outcome
Semester 1 Aug. 2026 - Dec. 20, 2026	Formation, market research, conceptual design, engineering, and business development	Preliminary design, engineering, construction, and business package
Semester 2 Jan. 2027 - May 2027	Virtual construction, commissioning, farm operations, and final reporting	Operations simulation, revised budget/schedule, and lessons learned
Black History Month February 2027	Final judging, public presentations, and competition selection	Winner and runner-up selected

Webinar Orientation Requirement: The webinar is the official entry point. Students receive the program overview, rules, deliverable expectations, timeline, Q&A, and the unique code required to download the Competition Manual.

PROJECT PHASES, DELIVERABLES, AND NEXT STEPS

Phase	Student Work	Core Deliverables
Phase 1 Company Formation & Market Research	Create the student-led company and define the market need.	Company name, mission, leadership structure, market research, target customers.
Phase 2 Conceptual Design	Develop the facility concept and explain what is being built, for whom, and why.	Facility concept, production goals, technology strategy, preliminary cost model.
Phase 3 Engineering & Business Development	Prepare the preliminary design, engineering, construction, and business package.	Drawings/renderings, site plan, equipment needs, cost estimate, schedule, operating model.
Phase 4 Virtual Construction & Commissioning	Simulate construction startup, procurement, budget control, schedule management, and commissioning.	Virtual construction plan, commissioning strategy, revised budget/schedule, risk responses.
Final Judging Black History Month 2027	Present the full project to judges, university representatives, industry professionals, and community partners.	Final presentation, scorecards, winner and runner-up selection.
Phase 5 Farm Operations Simulation	Operate the company for one simulated year and test sustainability.	Production results, revenue/expense summary, P&L, cash flow, lessons learned.

Final Presentation Requirements

• Company overview • Market research • Facility concept • Engineering and technology strategy • Construction cost and schedule	• Business model • Operations plan • Community impact • Financial feasibility • Response to real-world challenges
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Student Expectations

- Participate fully and communicate professionally.
- Contribute to assigned team role and deliverables.
- Meet deadlines and attend required meetings.
- Solve problems, negotiate tradeoffs, and present clearly.

Next Steps for Interested Students

Complete Candidate Questionnaire
 Receive Zoom Webinar Invitation
 Attend Webinar Orientation
 Receive Download Code
 Download Competition Manual
 Begin Competition Preparation