

Food Science Transfer Plan

Iowa State University (ISU) and Des Moines Area Community College (DMACC)

Food science - combines food science and professional elective courses to prepare students for food processing, sales, and management positions in the food industry. Students take coursework focused on food chemistry, food microbiology, food quality assurance, sensory evaluation of food, and food product development and pursue careers as food scientists in a variety of positions within food industry.

The courses listed below are ones that can be taken at DMACC and transferred to Iowa State University (ISU) to satisfy requirements in the Bachelor of Science degree in Food Science. This transfer plan document was accurate on the date it was prepared and may not reflect subsequent changes by ISU or DMACC. For this reason, the transfer plan should not replace consultation with an Iowa State University [academic advisor](#) in the Department of Food Science and Human Nutrition.

- **All courses on this plan do not need to be completed prior to transfer.** Typically, transfer students complete 1 year of remaining prerequisites at ISU followed by 2 years of upper-level coursework to earn the Bachelor of Science degree in food science.
- **An emphasis on completing science sequence courses** and the prerequisites for upper level courses will best help students move through the program at the quickest pace after transfer. If you are a part-time student or cannot complete all of the suggested coursework on this plan, consider choosing the science coursework first since this begins the longest sequence of courses. (Begin with the chemistry and general biology equivalents.)
- **No more than 65 semester credit hours earned at a two-year college** can be applied to a baccalaureate degree from ISU. The university accepts up to 16 semester hours of credit earned in career-technical courses if the sending college accepts such courses toward its Associate of Art or Associate of Science degrees.
- **Plan ahead to [apply to ISU](#)** a year prior to when you anticipate starting ISU courses, complete the [Federal Financial Aid Application \(FAFSA\)](#) for financial aid options, and apply for [scholarship](#) opportunities.

Go [here](#) to explore student internships.

	ISU courses for food science	DMACC equivalent course/s	Notes
	ENGL 150	ENG 105 Composition I	
	ENGL 250	ENG 106: Composition II	
	SP CM 212	SPC 101: Fund. of Oral Comm.	
	LIB 160	SDV 171: Library Instruction	
	MATH 165	MAT 211: Calculus I	
	STAT 101 or 104	MAT 157: Statistics OR MAT 162: Princ. of Business Statistics	
	BIOL 212/212L	BIO 112: Biology I BIO 113: Biology II	Must take both BIOL 112 and 113 to get credit BIOL 212/212L or wait to take this course at ISU.
	CHEM 177/177L & CHEM 178/178L	CHM 165: General/Inorganic Chemistry I CHM 175: General/Inorganic Chemistry II	
	CHEM 331 AND 332	CHM 263: Organic Chemistry I + Lab	

		CHM 273: Organic Chemistry II + Lab	
	PHYS 131/131L	PHY 160: General Physics I	
	MICRO 201/201L	BIO 186: Microbiology/Lab	
	ECON 101	ECN 130: Principles of Microeconomics OR ABG 101: Agricultural Economics	
	FSHN 167	BIO 151: Nutrition or HSC 240: Human Nutrition	
	6 credits of Professional Elective Courses: ACCT 215, ACCT 284, ACCT 285, HORT 221, GLOBE 220, ECON 235	BUS 185: Business Law I ACC 131: Principles of Accounting I ACC 132: Principles of Accounting II AGH 106: Intro to Horticulture AGC 420: Agricultural Issues AGB 235: Intro to Agricultural Markets	More options are available at ISU to meet this requirement. Courses in food science, chemistry, marketing, economics, and management
	Additional ISU courses required for the food science major	DMACC equivalent course/s	Notes
	Humanities, 6 credits	DRA 101, HIS 110, 111, 150, or 153, LIT 101, 105, 110, or 111, MUS 100, PHI 101 or 105, REL 101 or 140	6 credits needed if students choose the College of Human Sciences, 3 credits are needed if students choose the College of Agriculture and Life Sciences
	Humanities or Social Science, 3 credits	CRJ 100, ECN 120, GLS 235, JOU 110, POL 111, 121, or 145, PSY 111, 121, 251, 261, SOC 110, 115, 120	Not needed for students choosing the College of Agriculture and Life Sciences
	International Perspectives will be met with a required course in the major: FSHN 342		
	US Diversity	SOC 115: Social Problems EDU: 245 Exceptional Learner LIT 105: Children's Literature PSY 261: Human Sexuality REL 140: Religion in the US	

Additional notes:

- Choose elective courses to total ≥ 120 credits (transfer credits plus ISU credits) to earn the degree.
- These plans are suggestions only and may need to be adapted to meet individual needs and commitments.
- Students who have earned a cumulative GPA of 3.50 or higher at the beginning of their final term are eligible to graduate with distinction provided they have completed 60 semester credits of coursework at ISU at the time they graduate, including a minimum of 50 graded credits at ISU.

For information on course requirements, sample four-year plan, and course sequence flow chart, refer to the Iowa State University [food science major page](#) webpage.

Updated 05/25/2022 based on course listings in the ISU 2022-2023 Catalog and the DMACC 2021-2022 Catalog.