

## Food Science Transfer Plan

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

The [Food Science](#) degree includes coursework in food chemistry, food microbiology, food quality assurance, sensory evaluation of food, and food product development. Graduates are prepared to 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 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 prerequisite courses 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.

	ISU courses for the food science major	DMACC equivalent course/s	Notes
	ENGL 1500	ENG 105: Composition I	
	ENGL 2500	ENG 106: Composition II	
	LIB 1600	SDV 171: Library Instruction	
	SP CM 2120	SPC 101: Fundamentals of Oral Communication	
	MATH 1600 <b>OR</b> MATH 1650	- MAT 211: Calculus I	No equivalent course for MATH 1600.
	STAT 1010 <b>OR</b> STAT 1040	MAT 156: Statistics -	No equivalent course for STAT 1040. MAT 1620: Principles of Business Statistics transfers as a 200-level statistics course and satisfies this requirement.
	CHEM 1770/1770L <b>AND</b> CHEM 1780	CHM 165: General Chemistry I + Lab <b>AND</b> CHM 175: General/Inorganic Chemistry II + Lab	
	CHEM 2310/2310L <b>OR</b> CHEM 3310 <b>AND</b> 3320	- CHM 263: Organic Chemistry I + Lab <b>AND</b> CHM 273: Organic Chemistry II + Lab	CHM 263 alone satisfies the requirements for CHEM 2310/2310L.
	PHYS 1150/1150L <b>OR</b> PHYS 1310/1310L	- PHY 160: General Physics I + Lab	No equivalent course for PHYS 1150/1150L.
	BIOL 2120/2120L	BIO 112: General Biology I <b>AND</b> BIO 113: General Biology II	Must take both BIO 112 and 113 to get credit for BIOL 2120/2120L. Students may wait to take it at ISU.

	MICRO 2010/2010L <b>OR</b> MICRO 3020/3020L	BIO 186: Microbiology + Lab -	No equivalent course for MICRO 3020/3020L.
	ECON 1010	ECN 130: Principles of Microeconomics	
	FSHN 1670	BIO 151: Nutrition <b>OR</b> HSC 240: Human Nutrition	
	<b>Additional courses for the major</b>	<b>DMACC equivalent course/s</b>	<b>Notes</b>
	<b>International Perspectives</b>	-	3 credits. <i>Requirement will be met with a course in the major (FSHN 3420).</i>
	<b>U.S. Culture and Community (US Diversity)</b>	SOC 115 / LIT 105 / PSY 261 / REL 140	3 credits. Must be from <a href="#">approved U.S. Diversity list</a> .
	<b>Humanities</b>	DRA 101 / HIS 112, 113, 150, 153 / LIT 105, 101, 110, 111 / MUS 100 / PHI 101, 105 / REL 101, 140	6 credits needed for students choosing CHS*. 3 credits needed for students choosing CALS*. Must be from <a href="#">approved Humanities list</a> .
	<b>Humanities OR Social Science</b>	DRA 101 / HIS 112, 113, 150, 153 / LIT 105, 101, 110, 111 / MUS 100 / PHI 101, 105 / REL 101, 140 <b>OR</b> CRJ 100 / ECN 130, 120 / GLS 235 / JOU 110 / PSY 111, 121, 251, 261 / SOC 110, 115, 120	3 credits needed for students choosing CHS (no additional credits for CALS students)*. Must be from <a href="#">approved Humanities list</a> or <a href="#">approved Social Sciences list</a>
	<b>Professional Electives:</b>	BUS 185 / ACC 131, 132 / AGB 235 / AGH 106, 221 / AGC 420	6 credits. More options are available at ISU to meet this requirement. See the <a href="#">Food Science Catalog Requirements</a> for more details.

\*CHS: College of Human Sciences; CALS: College of Agriculture & Life Sciences

**Additional notes:**

- A minimum of 120 credits are required to earn the Bachelor of Science degree in Food Science. Students may choose electives beyond the requirements for the major to reach that total if needed.
- 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 2023 based on course listings in the ISU 2023-2024 Catalog and [ISU's Course Equivalency Guide](#).*