

**Department of Food Science, University of California**  
**Bachelor of Science (BS) Degree Requirements**  
**Food Science Option**

**PREPARATORY COURSEWORK (60 UNITS): Plan to complete these courses during freshman and sophomore year. All courses must be taken for a letter grade.**

<b>COURSE NAME</b>	<b>COURSE NUMBER</b>	<b>QUARTER OFFERED</b>	<b>PREREQUISITES</b>	<b>UNITS</b>
General Chemistry	CHE 2A	F, W, SSI	High school chemistry and physics, and concurrent enrollment in mathematics at or above the level of MAT 012 strongly recommended; must earn a qualifying score of 24 or better on the Chemistry Placement Exam	5
General Chemistry	CHE 2B	W, S	CHE 002A C- or better or CHE 2AH C- or better	5
General Chemistry	CHE 2C	F, S, SSI	CHE 002B C- or better or CHE 002BH C- or better	5
Organic Chemistry	CHE 8A	F, S, SSI	CHE 002B C- or better or CHE 002BH C- or better	2
Organic chemistry	CHE 8B	F, W, SSI, SSII	CHE 008A or CHE 118A or CHE 128A	4
Short Calculus	MAT 17A	All	Two years of high school algebra, plane geometry, plane trigonometry, and satisfying the Mathematics Placement Requirement	4
Short Calculus	MAT 17B	All	MAT 017A with a C- or better	4
Short Calculus	MAT 17C	All	MAT 17B with a C- or better	4
Biological Sciences	BIS 2A	All	None	5
General Physics	PHY 7A	All	MAT 017B (can be concurrent) or MAT 021B (can be concurrent)	4
General Physics	PHY 7B	All	PHY 007A	4
General Physics	PHY 7C	All	PHY 007B	4
Food Preservation	FST 50	F	CHE 2A; BIS 2A	3
Nutrition	NUT 10	F, W, S, SSII	None	3
Statistics	STA 13	All	Two years of high school algebra or MAT D	4

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**DEPTH SUBJECT MATTER (48 UNITS): Plan to complete these courses during your junior and senior year. All courses must be taken for a letter grade.**

DEPTH SUBJECT MATTER	COURSE NUMBER	QUARTER OFFERED	PREREQUISITES	UNITS
General Biochemistry	BIS 102	F, W, S, SSI	BIS 2A; CHE 8B or CHE 118B or CHE 128B	3
General Biochemistry	BIS 103	F, W, S, SSII	BIS 102	3
General Microbiology	MIC 102	All	BIS 2A; CHE 2B	3
Food Composition	FST 100A	F	CHE 8B or CHE 118B or CHE 128B; BIS 2A recommended	4
Food Composition Lab	FST 101A	F	FST 100A (must be concurrent)	3
Food Physical Chemistry	FST 100C	W	FST 100A; CHE 8B	4
Food Properties Lab	FST 101B	W	FST 100B (must be concurrent)	2
Food Analysis	FST 103	W	CHE 2C; CHE 8B; BIS 103; FST 100B	4
Food Microbiology	FST 104	W	BIS 2A; BIS 103	3
Food Microbiology Lab	FST 104L	S	BIS 2A; BIS 103; FST 104	4
Food Processing	FST 110	F	PHY 7A-7B-7C; MAT 16C or MAT 17C or MAT 21C	4
Food Processing Lab	FST 110L	S	FST 110	2
Food Design and Sensory Analysis	FST 117	F	STA 13	4
Food Sensory Science	FST 127	W	FST 117	4
Food Science Career Seminar	FST 190	S	Junior or Senior standing	1

RESTRICTED ELECTIVES	UNITS
Selection of courses should be made in consultation with your Major Advisor prior to reaching 90 quarter units.	<b>18</b>

**ADDITIONAL NOTES:**

- Students are encouraged to meet with a Staff Advisor at least once a year to check their progress toward graduation.
- Freshman and Sophomore Level students should enroll in courses numbered 001-099.
- Students are expected to complete all preparatory coursework before starting their junior-level major requirements.
- All Food Science and Technology (FST) courses are offered once per academic year; please plan accordingly.
- Must complete the 180 unit requirement and maintain a 2.000 cumulative GPA in Depth Subject Matter requirements to be eligible for graduation.

**COLLEGE OF AGRICULTURAL & ENVIRONMENTAL SCIENCES (CAES) DEGREE REQUIREMENTS**

Additional courses are required to complete the University and CA&ES Bachelor of Science requirements. Meet with your Undergraduate Academic Programs (UAP) Advisor in the CA&ES Dean's Office if you have questions related to the Entry Level Writing Requirement, English Composition Requirement, American History and Institutions, or General Education Requirements. CA&ES UAP Advisors are located in 150 Mrak Hall. To make an appointment with a UAP Advisor, visit [appointments.ucdavis.edu](http://appointments.ucdavis.edu) or call the front desk at (530) 752-0108.