

Integrated B.S. Health Sciences/M.S. Food Science Suggested 5-year Plan

Allied Health Area of Study

Note: Prerequisites for the M.S. Food Science Program are in red; Food Science Graduate Courses are in bold

FRESHMAN YEAR

<i>Fall</i>	<i>Credits</i>	<i>Spring</i>	<i>Credits</i>
CHEM 140 lecture and lab	4	CHEM 150 lecture and lab	4
BIOL 204 lecture and lab	4	PSY 101 lecture	3
HSCI 101	1	BIO 208 lecture and lab	4
TOTAL CREDITS			11

SOPHOMORE YEAR

<i>Fall</i>	<i>Credits</i>	<i>Spring</i>	<i>Credits</i>
HSCI/BIO 210 lecture and lab	4	HSCI/BIO 366 lecture and lab	4
MATH 203 lecture	3	FSN 200 lecture	3
TOTAL CREDITS			7

JUNIOR YEAR

<i>Fall</i>	<i>Credits</i>	<i>Spring</i>	<i>Credits</i>
BIOL 317 lecture and lab	4	HSCI/BIO 365 lecture	3
HSCI 310	3	BIOL 330 lecture and lab	4
CHEM 230 lecture and lab	4	CHEM 331 lecture and lab (will apply as an HSCI general elective)	4
TOTAL CREDITS			11

SENIOR YEAR

<i>Fall</i>	<i>Credits</i>	<i>Spring</i>	<i>Credits</i>
FSN 500	1*	PSY Elective (PSY 436)	3
FSN 515 (will apply as a PSY elective)	3**	HSCI 498	3
FSN 530 and 530L (will apply as an HSCI general elective)	4**	FSN 520 and 521	4*
HSCI 460	3		
TOTAL CREDITS			10

*will only count towards graduate program

**will count towards major and graduate program

FIFTH YEAR

<i>Fall</i>	<i>Credits</i>	<i>Spring</i>	<i>Credits</i>
FSN 508	3	FSN 501 and 502	4
FSN 660	3	FSN Elective	3
FSN 594	4		
TOTAL CREDITS			7
<i>Summer</i>	<i>Credits</i>		
FSN 503	3		
FSN 505	3		
TOTAL CREDITS			6

Note: The M.S. Food Science suggested plan is based on the non-thesis option, which requires successful completion of the comprehensive exam (offered in January and June of each year). Additional details on the thesis and non-thesis options can be found in the catalog. Students will need to follow the catalog year requirements in which they matriculate in the M.S. Food Science Program.

Additional Information

Integrated Bachelor of Science/Master of Science in Food Science

The Integrated Bachelor of Science/Master of Science in Food Science program enables undergraduate students to begin taking M.S. coursework in their junior or senior year and receive a Master of Science in Food Science within one year of finishing their undergraduate degree. The program is open to all undergraduate Biochemistry and Molecular Biology, Chemistry, Biological Sciences and Health Sciences majors who meet the admission requirements. Undergraduates in other majors may be eligible as long as they have satisfied the prerequisites for the program and meet the admission requirements. Graduates of the program can pursue a variety of career opportunities in the food science industry.

Chapman students can apply to the M.S. program in their junior year. If accepted into a graduate program, undergraduate students may take up to 15 graduate credits once a minimum of 90 undergraduate credits have been completed or will be completed prior to the start of the course. Some of these 15 credits may also count towards their undergraduate degree credit requirement. Students would complete the remaining credit hours of graduate course work beginning in the summer or fall after receiving the undergraduate degree.

Admission requirements for the Integrated Program:

1. Graduate application available at chapman.edu/admission/graduate/applynow.aspx.
2. Students with a cumulative 3.000 GPA or higher must apply during the junior year of their bachelor's degree in Biochemistry and Molecular Biology, Chemistry, Biological Sciences or Health Sciences.
3. A personal statement of approximately 500 words, which includes: a) student's interest in the integrated program at Chapman; b) career goals; and c) academic and research achievements.
4. Resume or curriculum vitae

Students in the integrated bachelor's plus master's programs will matriculate into the graduate program after the completion of their bachelor's degree. Students may not begin Year 5 coursework without certified completion of the bachelor's degree from Chapman University. The cumulative GPA at graduation must be 3.000 or higher.

Prerequisites for the M.S. Food Science Program

1. General chemistry with laboratory (two semesters)
2. Organic chemistry with laboratory (two semesters or one semester organic and one semester biochemistry)
3. Microbiology with laboratory
4. Statistics
5. Human nutrition

Food Science Courses

Note: please check the food science catalog for the most recent version of course listings.

core courses (12 credits)

- [FSN 501 - Food Chemistry](#) 3 credits
- [FSN 502 - Food Chemistry Lab](#) 1 credit
- [FSN 520 - Food Processing and Preservation](#) 3 credits
- [FSN 521 - Food Processing and Preservation Laboratory](#) 1 credit
- [FSN 530 - Food Microbiology](#) 3 credits
- [FSN 530L - Food Microbiology Lab](#) 1 credit

requirements (7 credits)

- [FSN 500 - Essentials of Food Science](#) **1 credit**
- [FSN 508 - Statistics for Food Scientists](#) **3 credits**
- [FSN 660 - Research Methods](#) **3 credits**

electives (15 credits)

- [FSN 503 - Government Regulation of Foods](#) **3 credits**
- [FSN 505 - Food Safety](#) **3 credits**
- [FSN 506 - Workplace Communications for Food Scientists](#) **2 credits**
- [FSN 507 - Food Quality Management](#) **1 credit**
- [FSN 509 - Topics in Food, Diet and Culture](#) **3 credits**
- [FSN 510 - Food Industry Study Tour](#) **3 credits**
- [FSN 512 - Sensory Evaluation of Foods](#) **3 credits**
- [FSN 515 - Food Ingredients](#) **3 credits**
- [FSN 522 - Community Nutrition](#) **3 credits**
- [FSN 538 - Nutrition and Human Performance](#) **3 credits**
- [FSN 539 - Life Cycle Nutrition](#) **3 credits**
- [FSN 543 - Medical Nutrition Therapy](#) **3 credits**
- [FSN 551 - Food Fraud](#) **3 credits**
- [FSN 587 - Nutrigenomics](#) **3 credits**
- [FSN 594 - Food Product Development, Lecture and Laboratory](#) **4 credits**
- [FSN 600 - Advanced Food Science: Selected Topics](#) **3-12 credits**
- [FSN 601 - Food Packaging](#) **3 credits**
- [FSN 602 - Food Flavors](#) **3 credits**
- [BUS 605 - Marketing Management](#) **3 credits**
- [FSN 606 - Dietary Supplements and Functional Foods](#) **3 credits**
- [FSN 690 - Internship for Graduate Students](#) **½-3 credits**
- [FSN 691 - Student-Faculty Research](#) **1-3 credits**
- [FSN 698 - Thesis](#) **1- 6 credits** (6 credits required)
- [FSN 699 - Independent Research](#) **1-3 credits**