

**Nutrition and Food Science (NFSC) - Fermentation Science (01131)**  
**Four Year Academic Plan**

Year 1	Fall		Spring			
		Credit	Grade		Credit	Grade
Benchmark Requirements completed by 2 semesters CHEM231/2 BSCI170/171	MATH120 (MA/AR)	3	_____	PLSC110/112	3	_____
	PLSC130 (HS/IS)	3	_____	History/Social Science (HS)*	3	_____
	CHEM131/132 (NL)	4	_____	CHEM231/232 (NS)	4	_____
	ENGL101 (AW)	3	_____	BSCI170/171	4	_____
	INAG110 (OC)	3	_____			
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>14</b>	
Year 2						
Benchmark Requirements completed by 4 semesters CHEM271/2 BSCI223	NFSC112	3	_____	CHEM271/272	4	_____
	CHEM241/242	4	_____	SP (non-major)*	3	_____
	BSCI223 (IS)	4	_____	Humanities (HU)*	3	_____
	Humanities (HU)*	3	_____	Elective	3	_____
				NFSC2XX <sup>1</sup>	3	_____
	<b>TOTAL</b>	<b>14</b>		<b>TOTAL</b>	<b>16</b>	
Year 3						
BCHM463 at least two of NFSC421,423,430,431 and AGST3XX	BCHM463	3	_____	AGST3XX <sup>3</sup>	4	_____
	ENGL39X (PW)	3	_____	NFSC431	4	_____
	AGST3XX <sup>2</sup>	4	_____	Elective	3	_____
	NFSC430	3	_____	NFSC4XX <sup>4</sup>	3	_____
	Elective	3	_____	Elective	2	_____
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>16</b>	
Year 4						
Major Requirements	NFSC4XX <sup>5</sup>	4	_____	NFSC412	4	_____
	NFSC4XX <sup>6</sup>	3	_____	NFSC386	4	_____
	NFSC421	3	_____	NFSC398	1	_____
	NFSC423 (SP)	3	_____	Elective	3	_____
				Elective	3	_____
	<b>TOTAL</b>	<b>13</b>		<b>TOTAL</b>	<b>15</b>	

*\*All students must complete two Distributive Studies courses that are approved for I-series courses. The Understanding Plural Societies (UP) and Cultural Competence (CC) courses may also fulfill Distributive Studies categories.*

<sup>1</sup> NFSC2XX: Fermented Food, Feed, and Pharmaceuticals. <sup>2</sup> AGST3XX: Viticulture and Enology. <sup>3</sup> AGST3XX: Brewing and Distilling. <sup>4</sup> NFSC4XX: Cheese and Fermented Dairy Products. <sup>5</sup> NFSC4XX:

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General Education Requirements (Grade of (D-) or higher is required)				Major Requirements (Grade of (C-) or higher is required)		
Fundamental Studies				Requirements	Credits	Grade
<i>Requirements: 15 credits</i>		Course	Credits	Grade	<b>Benchmark 1 Requirements</b>	
Academic Writing AW	ENGL101	3		CHEM231/232	4	
Professional Writing PW	ENGL39X	3		BSCI170/171	4	
Oral Comm. OC	INAG110	3				
Math MA						
Analytic Reasoning AR	MATH120	3		<b>Benchmark 2 Requirements</b>		
<b>Distributive Studies</b>						
<i>Requirements: 25 credits</i>		Course	Credits	Grade		
Natural Sciences Lab NL	CHEM131/132	4		CHEM271/272	4	
Natural Sciences NS	NFSC112	3		BSCI223	4	
History/Social Sciences HS	PLSC130	3				
History/Social Sciences HS		3				
Humanities HU		3				
Humanities HU		3		<b>Major Requirements</b>		
Scholarship in Practice SP	NFSC423	3		MATH120,	3	
Scholarship in Practice SP (non major)		3		CHEM131/2, 231/2, 241/2, 271/2	16	
<b>I-Series</b>				BSCI170/171, 223	8	
<b>Normally double counted with Distributive Studies</b>				PLSC130	3	
<i>Requirements: 6 credits</i>		Course	Credits	Grade	PLSC110 or 112	3
I-Series IS	PLSC130	3		BCHM463	3	
I-Series IS	BSCI223	3		NFSC112, 386, 398, 412, 421, 423, 430, 431, 2XX, 4XX, 4XX, 4XX	39	
<b>Diversity</b> (overlap permitted with Distributive Studies and/or I-series)						
<i>Requirements: 4-6 credits</i>		Course	Credits	Grade	AGST3XX, 3XX	8
Understanding Plural Soc. UP		3 or 6				
Understanding Plural Soc. UP or Cultural Competence CC		0 to 3				
<b>Experiential Learning- optional</b> (overlap permitted with other requirements/courses)				<b>Major Supporting Sequence ( 6 credits)</b>		
<i>Requirements: 0-3 credits</i>		Course	Credits	Grade	MATH120	3
Experiential Learning	NFSC386	4		BCHM463	3	
Students must earn a minimum of 120 credits to complete a degree.						
Requirements for Graduation:						
<input type="checkbox"/> At least 30 credits must be earned at UMD						
<input type="checkbox"/> 15 of the final 30 credits must be earned at the 300-400 level						
<input type="checkbox"/> 12 upper-level major credits must be earned at UMD						

Note: Students with MATH120 eligibility do not need to take MATH113.  
NFSC4XXs are upper level Fermentation Science courses.