

**I. GENERAL EDUCATION CURRICULUM.....44**

CHE 1101, 1110, 1102, and 1120 will fulfill the Science Inquiry Perspective. MAT 1110 will fulfill Quantitative Literacy. ECO 2030 may be used to meet Gen Ed Perspectives.

**II. MAJOR REQUIREMENTS (Not including 15 s.h. already counted in I, above) ..... 70-72**  
**2.0 major GPA is required for graduation. Major GPA calculation includes all courses in the major department, plus any other courses under II.****A. Fermentation Science (18 semester hours)**

FER 1000	_____ (3)	Principles of Fermentation Sciences
FER 2000	_____ (1)	Social Implications of Fermented Beverages
FER 3200	_____ (3)	Facility Design and Operation
FER 4300	_____ (3)	Sensory Analysis of Wine and Beer ( <i>Pre: FER 4100 or FER/CHE 4200, STT 2810</i> )

**Choose two of the following:**

FER 3000	_____ (4)	Viticulture: Vine Physiology and Vineyard Establishment ( <i>Pre: BIO 1801</i> )
FER 4100	_____ (4)	Wine Production and Analysis ( <i>Pre: CHE 2210/2211</i> )
CHE/FER 4200	_____ (4)	Brewing Science and Analysis ( <i>Pre: CHE 2210/2211</i> )

**B. Chemistry (19 semester hours)**

CHE 1101/1110	_____ (4)	Introductory Chemistry I & Introductory Chemistry I Lab
CHE 1102/1120	_____ (4)	Introductory Chemistry II & Introductory Chemistry II Lab ( <i>Pre: CHE 1101/1110</i> )
CHE 2101	_____ (3)	Fundamentals of Organic Chemistry ( <i>Pre: CHE 1102/1120; Co: CHE 2102</i> )
CHE 2102	_____ (1)	Fundamentals of Organic Chemistry Lab ( <i>Pre: CHE 1102/1120; Co: 2101</i> )
CHE 2210	_____ (3)	Quantitative Analysis ( <i>Pre: CHE 1102/1120; Co: CHE 2211</i> )
CHE 2211	_____ (1)	Quantitative Analysis Lab ( <i>Co: CHE 2210</i> )
CHE 4580	_____ (3)	Biochemistry I ( <i>Pre: CHE 2101 or 2202</i> )

**C. Biology (11 semester hours)**

BIO 1801	_____ (4)	Biological Concepts I ( <i>Co: CHE 1101</i> )
BIO 2600	_____ (3)	Cell Biology ( <i>Pre: BIO 1801, CHE 1102</i> )
BIO 3308	_____ (4)	Microbiology ( <i>Pre: CHE 1102/1120</i> )

WID and CAP courses are required. *These courses are in development and, when approved, revisions will be made to the program of study.*

**D. Mathematics and Economics (10 semester hours)**

MAT 1110	_____ (4)	Calculus with Analytic Geometry I ( <i>Pre: MAT 1025 w/min grade of C-</i> )
STT 2810	_____ (3)	Introduction to Statistics ( <i>Pre: MAT 1010</i> )
ECO 2030	_____ (3)	Principles of Economics – Price Theory ( <i>may be used in Gen Ed depending on choices</i> )

**E. Focus area courses (12 - 14 semester hours)**

NUT 1202	_____ (3)	Basic Food Science	<b>AND</b>	NUT 3210	_____ (3)	Beverage Management
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**Choose two of the following:**

SD 3100	_____ (4)	Principles of Agroecology	S D 3150	_____ (4)	Soil & Soil Fertility Management
SD 4200	_____ (4)	Ecologically-Based Pest Mgmt ( <i>Pre: SD 3100</i> )	TEC 3605	_____ (3)	Sustainable Resrcr Mgmt ( <i>Pre: TEC 2029</i> )
TEC 3606	_____ (3)	Sust Water & Wastewater Tech ( <i>Pre: TEC 2029</i> )	TEC 4700	_____ (3)	Biofuels Tech ( <i>Pre: TEC 2601 &amp; 3638</i> )

**F. Business courses (15 semester hours)**

BUS 1050	_____ (3)	Introduction to Business	ACC 1050	_____ (3)	Survey of Accounting
ENG 3700	_____ (3)	Technical Writing ( <i>Pre: ENG 3090 or 3100</i> )	MKT 3050	_____ (3)	Principles of Marketing ( <i>Pre: ECO 2030</i> )

**Choose one of the following:**

HOS 2000	_____ (3)	Survey of the Hospitality & Tourism Industry	MGT 3010	_____ (3)	Survey of Management
MGT 3060	_____ (3)	Opportunity & Entrepreneurship			

**III. MINOR (optional)** Students are encouraged to pursue a minor in one of the following areas: Chemistry, Biology, Marketing, or Entrepreneurship.**IV. ELECTIVES (taken to total 122 hours for the degree) .....6-8**  
**2 semester hours of free electives must be outside the major discipline. 122**

*Electives recommended by department:*

MGT 3170 (3) Fostering & Managing Creativity (*Pre: MGT 3060*), MGT 3190 (3) Int'l Entrepreneurship (*Pre: MGT 3060*), MGT 4650 (3) Venture Creation (*Pre: MGT 3060*), CHE 2526 (1) Chemical Safety (*Pre: 1101/1110*), HOS 3700 (3) Hospitality Management Operations I (*Pre: HOS 2000*), HOS 4040 (3) Destination Management