

PACKAGING SCIENCE CURRICULUM (2011-2012)

FRESHMAN YEAR

<u>Fall Semester</u>	<u>Spring Semester</u>
PKGSC 101 Packaging Orientation* ¹ 1	PKGSC 102 Intro to Packaging Science* ¹ 2
BIOL103 General Biology I..... 3	BIOL 104 General Biology II..... 3
BIOL105 General Biology Lab I..... 1	BIOL 106 General Biology Lab II 1
CH 101 General Chemistry 4	CH 102 General Chemistry 4
MTHSC 106 Calculus of One Variable I..... 4	ENGL 103 Accelerated Composition..... 3
Social Science Requirement* ² 3	13
16	

SOPHOMORE YEAR

<u>Fall Semester*³</u>	<u>Spring Semester*³</u>
PKGSC 202 Packaging Materials & Manuf* ¹ 4	PKGSC 201 Packaging Perishable Products 3
ENGL 314 Technical Writing 3	PKGSC 204 Container Systems* ¹ 3
CH 201 Survey Organic Chemistry <i>or</i> 4	PKGSC 206 Container Systems Lab* ¹ 1
CH 223 Organic Chemistry <i>and</i> 3	PHYS 208 General Physics II <i>and</i> 3
CH 227 Organic Chemistry Lab..... 1	PHYS 210 General Physics II Lab <i>or</i> 1
PHYS 207 General Physics I <i>and</i> 3	PHYS 221 Physics w/Calculus II <i>and</i> 3
PHYS 209 General Physics I Lab <i>or</i> 1	PHYS 223 Physics Lab II..... 1
PHYS 122 Physics w/Calculus I <i>and</i> 3	GC 103 Graphic Comm 1 for Packaging Sci 4
PHYS 124 Physics Lab II..... 1	15
15	

Summer

CO-OP 101 Cooperative Education* ⁴ 0

JUNIOR YEAR

<u>Fall Semester</u>	<u>Spring Semester</u>
PKGSC 220 Package Drawing/CAD 4	PKGSC 320 Package Design Fundamentals 3
PKGSC 404 Mechanical Properties of Packages & Principles of Protective Packaging* ⁵ 3	PKGSC 368 Packaging & Society..... 3
PKGSC 454 Product and Package Eval Lab* ⁵ 1	PKGSC 440 Packaging for Distribution..... 3
PKGSC 416 Appl of Polymers in Packaging 4	PKGSC 430 Converting for Flexible Packaging..... 3
Emphasis Area Requirement* ⁶ 3	PKGSC 401 Packaging Machinery 3
15	3
	18

SENIOR YEAR

<u>Fall Semester</u>	<u>Spring Semester</u>
PKGSC 464 Food & Health Care Pkg Syst 4	PKGSC 403 Packaging Career Preparation..... 1
EXST 301 Introductory Statistics..... 3	PKGSC 420 Package Design & Development 3
Arts & Humanities (Literature) Requirement* ² 3	APEC 202 Agricultural Economics <i>or</i> 3
COMM 250 Public Speaking 3	ECON 211 Principles of Microeconomics 3
Emphasis Area Requirement* ⁶ 3	Arts & Humanities (Non-Lit) Requirement* ² 3
16	6
	16

Total Semester Hours – 124

The Bachelor of Science degree in Packaging Science prepares students for careers in industries producing and utilizing packages for all types of products. Packaging is an essential part of industrialized economies, protecting, preserving, and helping to market products. The field of packaging is highly competitive and highly innovative, requiring an ever-increasing number of professional positions.

Opportunities for employment include a wide variety of career paths such as manufacturing, marketing, sales, design, purchasing, quality assurance, and customer services. Most career opportunities are in positions requiring technical knowledge combined with marketing and management skills.

The core curriculum assures graduates of having the skills and knowledge required by most entry-level packaging positions. Emphasis area choices or approved minors allow students to select courses to improve career preparation for specific industry segments, including: Distribution and Transportation; Engineering Technology; Food and Health Care Packaging; Materials; Business Administration; Entrepreneurship; Environmental Engineering, Environmental Science and Policy, Management.

Students changing majors to Packaging Science must have at least a 2.0 cumulative grade-point ratio.

- *1 A “C” or better is required in this course for graduation.
- *2 See General Education Requirements. Three of these credit hours must also satisfy the Cross-Cultural Awareness Requirement. *Note:* Social Science Requirement must be in an area other than economics or applied economics. A 200-level or higher foreign language course is recommended to satisfy the Arts and Humanities (Non-literature) Requirement
- *3 Students interested in minors or emphasis areas should take any prerequisites in the sophomore year.
- *4 At least one 15-week period (6 months preferred) of Cooperative Education is required.
- *5 PKGSC 404 and 454 must be taken concurrently.
- *6 Completion of an approved minor or emphasis is required.
 - Approved minors are Business Administration, Entrepreneurship, Environmental Engineering, Environmental Science and Policy Management
 - Emphasis areas consist of 15 credit hours selected from one of the following areas (additional emphasis area courses may be approved by emphasis area coordinator):
 - Distribution and Transportation* – See Advisor for approved emphasis area courses.
 - Engineering, Materials, and Technology* – See Advisor for approved emphasis area courses.
 - Food and Health Care Packaging* – See Advisor for approved emphasis area courses.
 - Package Design and Graphics* – See Advisor for approved emphasis area courses.
 - Marketing/Finance* – See Advisor for approved emphasis area courses.

Potential summer course offerings:

PKGSC 368 Packaging & Society 3 [on line every summer] H. Batt

PKGSC 440 Packaging for Distribution 3 [on line every summer] G. Batt

PKGSC 220 Package Drawing/CAD 4 [on line every summer] R. Hurley

PKGSC 320 Package Design Fundamentals 3 [on line every summer] R. Hurley

PKGSC 416 Appl of Polymers in Packaging 4 [face to face every other long summer] D. Darby

PKGSC 430 Converting for Flexible Packaging 3 [face to face every other long summer] D. Darby

PKGSC 464/664 Food and Health Care Packaging Systems 4[face to face long summer] K. Cooksey