

Applied Sciences in Engineering Curriculum (073)
Packaging Engineering Concentration

Name _____

FRESHMAN YEAR

01:160:159	Gen Chem for Engr	3	01:160:160	Gen Chem for Engr II	3
01:160:171	Intro to Experimentation	1	01:640:152	Calculus II	4
01:355:101	Expository Writing	3	01:750:124	Analytical Physics IB	2
01:640:151	Calculus I	4	14:440:127	Intro Computers Engr	3
01:750:123	Analytical Physics IA	2	14:440:221	Eng'g Mech: Statics	3
14:440:100	Intro to Engineering	1			

SOPHOMORE YEAR (see also Eng'g & tech electives)

01:640:251	Multivariable Calculus	4	01:640:244	Differential Equations	4
01:750:229	Analytical Physics IIA	3	01:750:228*	Analytical Physics IIB	3
01:750:227	Analytical Physics lab	1	01:750:230*	Analytical Physics IIB lab	4
			01:220:102	Micro Economics	3

ENGINEERING ELECTIVES- 14:xxx:xxx (10 course of 3cr+ each)

440:301	3M	440:419	3M	440:490	3M	**Pkg elective	3M
440:302	3M	440:420	3M	440:373	3M		
440:371	3M	440:471	3M	**Pkg elective	3M		

TECHNICAL ELECTIVES (36cr math, sci, eng'g, or related courses) + *4cr for 750:228/230 = 40cr

440:222	3M	440473	2M	TE	3M
355:302	3M	440470	2M	TE	3M
33:799:301 Intro to Supply Chain	3M	**Pkg elective	3M		
Mechanics elective 635:314 635:407 180:243 650:291	3M	**Pkg elective	3M		
Statistics elective 960:379 960:384 960:401	3M	**Pkg elective	3M		
Junior elective 14:155:208, 14:635:206, 14:650:351, 01:160:209, 01:160:307, 14:635:361, 14:635:312	3M	TE	3M		

HUMANITIES/SOCIALSCIENCE ELECTIVES (12cr)

	3		3 300+
	3		3 300+

Extra Courses:

TOTAL CREDITS REQUIRED: 126

**Packaging Electives 14:440:378, 14:440:403, 14:440:406, 14:440:408, 14:440:468, 14:440:489, 14:440:490, 16:731:5xx

Packaging Engineering Curriculum

Name _____

FRESHMAN YEAR

01:160:159	Gen Chem for Engr	3	01:160:160	Gen Chem for Engr	3
01:160:171	Intro to Experimentation	1	14:440:127	Intro Computers for Engr	3
01:355:101	Expository Writing	3	14:440:221	Eng'g Mech: Statics	3
14:440:100	Engineering Orientation	1	01:640:152	Calculus II	4
01:640:151	Calculus I	4	01:750:124	Analytical Physics IB	2
01:750:123	Analytical Physics IA	2	_____:_____	Hum/SocSci Elective	3
_____:_____	Hum/SocSci Elective	3			
	Total	17		Total	18

SOPHOMORE YEAR

01:640:251	Multivariable Calculus	4	01:640:244	Differential Equations	4
01:750:227	Analytical Physics IIA	3	14:440:222	Eng'g Mech: Dynamics	3
01:750:229	Anal. Physics IIA Lab	1	33:799:301	Intro to Supply Chain	3
14:440:301	Intro to Packaging	3	14:440:302	CAD in Packaging	3
01:220:102	Micro Economics	3	14:440:____	Packaging Elective*	3
_____:_____	Hum/SSci Elective 300+	3			
	Total	17		Total	16

JUNIOR YEAR

14:440:371	Packaging Evaluation	3	01:355:302	Sci & Tech Writing	3
14:440:470	Packaging Lab I	2	14:440:471	Distribution Packaging	3
14:440:419	Innovation and Design	3	14:440:473	Packaging Lab II	2
_____:_____	Mechanics*	3	14:440:490	Special Topics Packaging	3
_____:_____	Statistics*	3	_____:_____	Junior Elective*	3
	Total	14		Total	14

SENIOR YEAR

14:440:373	Packaging Manufacturing	3	14:440:420	Senior Design Project	3
14:440:____	Packaging Elective*	3	14:440:____	Packaging Elective*	3
14:440:____	Packaging Elective*	3	14:440:____	Packaging Elective*	3
_____:_____	Technical Elective	3	_____:_____	Hum/SSci Elective 300+	3
_____:_____	Technical Elective	3	_____:_____	Technical Elective	3
	Total	15		Total	15

TOTAL CREDITS REQUIRED: 126

Notes*:

Packaging Electives 14:440:378, 14:440:406, 14:440:408, 14:440:468, 14:440:489, 16:731:5xx
 Mechanics Elective: 14:635:314, 14:635:407, 14:180:243, 14:650:291
 Statistics Elective: 01:960:379, 01:960:384, 01:960:401
 Junior Elective: 14:155:208, 14:635:206, 14:650:351, 01:160:209, 01:160:307, 14:635:361, 14:635:312

Undergraduate students are only allowed to take two packaging graduate courses.

Packaging Engineering Curriculum (with Fall Co-op)

Name _____

FRESHMAN YEAR

01:160:159	Gen Chem for Engr	3	01:160:160	Gen Chem for Engr	3
01:160:171	Intro to Experimentation	1	14:440:127	Intro Computers for Engr	3
01:355:101	Expository Writing	3	14:440:221	Eng'g Mech: Statics	3
14:440:100	Engineering Orientation	1	01:640:152	Calculus II	4
01:640:151	Calculus I	4	01:750:124	Analytical Physics IB	2
01:750:123	Analytical Physics IA	2	_____:_____	Hum/SocSci Elective	3
_____:_____	Hum/SocSci Elective	3			
	Total	17		Total	18

SOPHOMORE YEAR

01:640:251	Multivariable Calculus	4	01:640:244	Differential Equations	4
01:750:227	Analytical Physics IIA	3	14:440:222	Eng'g Mech: Dynamics	3
01:750:229	Anal. Physics IIA Lab	1	33:799:301	Intro to Supply Chain	3
14:440:301	Intro to Packaging	3	14:440:302	CAD in Packaging	3
01:220:102	Micro Economics	3	14:440:____	Packaging Elective*	3
_____:____	Hum/SSci Elective 300+	3			
	Total	17		Total	16

JUNIOR YEAR

14:440:371	Packaging Evaluation	3	14:440:____	Packaging Elective	3
14:440:419	Innovation and Design	3	_____:____	Statistics*	3
14:440:470	Packaging Lab I	2	_____:____	Mechanics*	3
14:440:373	Packaging Manufacturing	3	_____:____	Junior Elective*	3
14:440:____	Packaging Elective	3	01:355:302	Sci & Tech Writing	3
_____:____	Technical Elective	3	14:440:490	Special Topic Packaging	3
	Total	17		Total	18

Summer

14:440:498 Co-op

SENIOR YEAR

14:440:498	Co-op	6	14:440:420	Senior Design Project	3
			14:440:471	Distribution Packaging	3
			14:440:473	Packaging Lab II	2
			14:440:____	Packaging Elective	3
			14:440:____	Packaging Elective	3
			_____:____	Hum/SSci Elective 300+	3
	Total	6		Total	17

TOTAL CREDITS REQUIRED: 126

Notes*:

Packaging Electives 14:440:378, 14:440:403, 14:440:406, 14:440:408, 14:440:468, 14:440:489, 16:731:5xx

Mechanics Elective: 14:635:314, 14:635:407, 14:180:243, 14:650:291

Statistics Elective: 01:960:379, 01:960:384, 01:960:401

Junior Elective: 14:155:208, 14:635:206, 14:650:351, 01:160:209, 01:160:307, 14:635:361, 14:635:312

Co-op students may register for up to two additional courses to maintain full-time enrollment. If students elect to register for only the 6-credit co-op the University will consider them to be part-time students. They will pay part-time tuition and fees (pay per credit). Part-time status will affect most scholarships, need-based financial aid, and on-campus housing. If students enroll for at least 6 credits they are still eligible for loans, but most other aid will be canceled or reduced. Discuss this issue with Financial Aid.

Packaging Engineering Curriculum (with Spring Co-op)

Name _____

FRESHMAN YEAR

01:160:159	Gen Chem for Engr	3	01:160:160	Gen Chem for Engr	3
01:160:171	Intro to Experimentation	1	14:440:127	Intro Computers for Engr	3
01:355:101	Expository Writing	3	14:440:221	Eng'g Mech: Statics	3
14:440:100	Engineering Orientation	1	01:640:152	Calculus II	4
01:640:151	Calculus I	4	01:750:124	Analytical Physics IB	2
01:750:123	Analytical Physics IA	2	_____:_____	Hum/SocSci Elective	3
_____:_____	Hum/SocSci Elective	3			
	Total	17		Total	18

SOPHOMORE YEAR

01:640:251	Multivariable Calculus	4	01:640:244	Differential Equations	4
01:750:227	Analytical Physics IIA	3	14:440:222	Eng'g Mech: Dynamics	3
01:750:229	Anal. Physics IIA Lab	1	33:799:301	Intro to Supply Chain	3
14:440:301	Intro to Packaging	3	14:440:302	CAD in Packaging	3
01:220:102	Micro Economics	3	14:440:____	Packaging Elective*	3
_____:_____	Hum/SSci Elective 300+	3			
	Total	17		Total	16

JUNIOR YEAR

14:440:371	Packaging Evaluation	3	14:440:497	Co-op	6
14:440:373	Packaging Manufacturing	3			
_____:_____	Statistics*	3			
_____:_____	Mechanics*	3			
_____:_____	Junior Elective*	3			
01:355:302	Sci & Tech Writing	3			
	Total	18		Total	6

Summer

14:440:497 Co-op

SENIOR YEAR

14:440:419	Innovation and Design	3	14:440:420	Senior Design Project	3
14:440:470	Packaging Lab I	2	14:440:471	Distribution Packaging	3
14:440:____	Packaging Elective	3	14:440:473	Packaging Lab II	2
14:440:____	Packaging Elective	3	14:440:490	Special Topic Packaging	3
_____:_____	Hum/SSci Elective 300+	3	14:440:____	Packaging Elective	3
_____:_____	Technical Elective	3	14:440:____	Packaging Elective	3
	Total	17		Total	17

TOTAL CREDITS REQUIRED: 126

Notes*:

Packaging Electives 14:440:378, 14:440:403, 14:440:406, 14:440:408, 14:440:468, 14:440:489, 16:731:5xx

Mechanics Elective: 14:635:314, 14:635:407, 14:180:243, 14:650:291

Statistics Elective: 01:960:379, 01:960:384, 01:960:401

Junior Elective: 14:155:208, 14:635:206, 14:650:351, 01:160:209, 01:160:307, 14:635:361, 14:635:312

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Required Packaging Engineering Courses

14:440:301	Intro to Packaging	3 (F)	Prerequisites: 160:160, 640:152, 440:221
14:440:302	CAD in Packaging	3 (S)	Prerequisites: 440:301
14:440:371	Packaging Evaluation	3 (F)	Prerequisites: 440:301, 440:222
14:440:373	Packaging Manufacturing	3 (F)	Prerequisites: 440:301, 440:222
14:440:419	Innovative Design	3 (F)	Prerequisites: 440:301, 440:302
14:440:420	Senior Design Project	3 (S)	Prerequisites: 440:419
14:440:471	Distribution Packaging	3 (S)	Prerequisites: 440:301, 440:222
14:440:470	Packaging Lab I	2 (F)	Prerequisites: 440:301
14:440:473	Packaging Lab II	2 (S)	Prerequisites: 440:301
14:440:490	Special Problems (Packaging)	3 (S)	Special permission only

Packaging Engineering Electives

14:440:378	Sustainable Packaging	3 (F)	Prerequisites: 440:301
14:440:468	Packaging Machinery	3 (S)	Prerequisites: 440:301, 440:222
14:440:403	Safety Eng Packaging	3 (S)	Prerequisites: 160:159, 440:221, 640:152, 750:124
14:440:406	Packaging Printing/Decoration	3 (S)	Prerequisites: 440:301
14:440:408	Pharmaceutical Packaging	3 (F)	Prerequisites: 440:301, 160:209*
14:440:489	Special Problems (Packaging)	3 (F)	Special permission only
14:440:490	Special Problems (Packaging)	3 (S)	Special permission only

Certificate in Packaging Engineering Program

Students in any major who complete 14:440:301 and three additional packaging courses from the following list will earn a "Certificate in Packaging Engineering".

14:440:302	CAD in Packaging	3 (S)	Prerequisites: 440:301
14:440:371	Packaging Evaluation	3 (F)	Prerequisites: 440:301, 440:222
14:440:373	Packaging Manufacturing	3 (F)	Prerequisites: 440:301, 440:222
14:440:378	Sustainable Packaging	3 (F)	Prerequisites: 440:301
14:440:403	Safety Eng Packaging	3 (S)	Prerequisites: 160:159, 440:221, 640:152, 750:124
14:440:406	Packaging Printing/Decoration	3 (S)	Prerequisites: 440:301
14:440:408	Pharmaceutical Packaging	3 (F)	Prerequisites: 440:301, 160:209*
14:440:468	Packaging Machinery	3 (S)	Prerequisites: 440:301, 440:222
14:440:471	Distribution Packaging	3 (S)	Prerequisites: 440:301, 440:222
14:440:489	Special Problems (Packaging)	3 (F)	Special permission only
14:440:490	Special Problems (Packaging)	3 (S)	Special permission only