

Millersville University  
Dept. of Applied Engineering, Safety &  
Technology

120 credits minimum

Effective Fall 2020 (rev FA21\_AENG)

**Bachelor of Science (B.S.)**  
**Packaging Engineering Technology (PET)**

**CORE REQUIREMENTS**

(48 credits) **ADVISOR NOTES**

Grade	Course No.	Title	Cr
	BUAD 161	Introduction to Financial Accounting	3
	BUAD 231	Principles of Marketing	3
	AENG 110	Communication & Information Systems	3
	AENG 241	Drafting Communications	3
	AENG 251	Print Media Systems ( <i>prereq AENG 110 or ART 244 or COMM 221</i> )	3
	AENG 258	Packaging Engineering Basics	3
	AENG 344	Product Design ( <i>prereq: AENG 241</i> )	3
	AENG 345	Statics & Strength of Materials ( <i>prereq: AENG 241; and MATH 151, 160 or 161</i> )	3
	AENG 347	Engineering Visualization ( <i>prereq AENG 241</i> )	3
	AENG 351	Digital Imaging	3
	AENG 357	Packaging & Specialty Printing ( <i>prereq AENG 241 &amp; 251; or ART 348</i> )	3
	AENG 358	Packaging Materials & Structures	3
	AENG 375	Polymer & Ceramic Technology ( <i>prereq AENG 271; AENG 130 is a prereq for AENG 271</i> )	3
	AENG 455	Research & Development in Graphics & Packaging ( <i>prereq AENG 355</i> )	3
	AENG 458	Advanced Concepts in Package Engineering	3
	AENG 494	Total Quality Management ( <i>prereq: MATH 130 and senior status</i> )	3

**DIRECTED ELECTIVES**

(12 credits)

Grade	Course No.	Title	Cr
	<b>Select four:</b>		
	AENG 300	Internship I	3
1.____	AENG 400	Internship II	3
2.____	AENG 492	Technical Entrepreneurship ( <i>prereq AENG 130 or AENG 241; and BUAD 251; and junior or senior class status</i> )	3
3.____			
4.____	COMM 440	Leadership & Media	3
	DESN 144	Digital Theory & Skills	3
	DESN 348	Packaging & Design ( <i>prereq DESN 144 or 240 or permission</i> )	3

**REQUIRED RELATED MATH COURSES**

(7 credits)

**NOTE: These courses will fulfill one G2 requirement and the Foundations for Lifelong Learning Math Requirement**

Grade	Course No.	Title	Cr
	MATH 130	Survey of Statistics ( <i>prereq: any 100-level math course or sufficient MPT score</i> )	3
	MATH 151	Calculus for Management, Life & Social Sciences ( <i>prereq: C- or higher in MATH 101 or Math Placement Test score of MPT 151</i> )	4

Prereqs are subject to change; consult the MU Web Schedule before registering to verify prereq requirements

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**REQUIRED RELATED SOCIAL SCIENCES**

(6 credits)

**NOTE: These courses also fulfill 6 credits in the G3 block**

Grade	Course No.	Title	Cr
	ECON 101	Macroeconomics	3
	ECON 102	Microeconomics	3

**GENERAL EDUCATION REQUIREMENTS**

(48 credits)

**G1 – HUMANITIES & FINE ARTS** (9 credits) [ART, COMM/THEATRE, ENGL, FOREIGN LANG/HUMN, MUSI, PHIL]

Grade	Course No.	Title	Cr
			3
			3
			3

Maximum of two courses from the same dept; all three courses could be from

**G2 – SCIENCE & MATH** (9 credits) — 3 credits required for G2 are fulfilled by Required Related Math

Grade	Course No.	Title	Cr
<b>x</b>	<b>x</b>	<i>fulfilled by one of the Required Related Math courses</i>	<b>3</b>
			3
			3

Must have two natural science courses (BIOL, CHEM, ESCI, PHYS or GEOG with the G2 label) to complete G2; one science

**G3 – SOCIAL SCIENCES** (9 credits) [AFAM, ANTH, BUAD, GEOG, GOVT, HIST, INTL, PSYC, SOCY, SOWK/GERT, WSTU]

Grade	Course No.	Title	Cr
<b>x</b>	<b>x</b>	<i>fulfilled by ECON 101</i>	<b>3</b>
<b>x</b>	<b>x</b>	<i>fulfilled by ECON 102</i>	<b>3</b>
			3

Third course cannot be ECON; must be from a different dept

**Additional General Education Requirements**

Grade	Course No.	Title	Cr
	COMM 100	Fundamentals of Speech (minimum of "C-" required)	3
	ENGL 110	English Composition (minimum of "C-" required)	3
<b>x</b>	<b>x</b>	Math course (fulfilled by one of the Required Related Math courses)	<b>3</b>
	WELL 175	Wellness	3
		<b>Perspectives [P]</b> (NOTE: AENG 301, 302, 303 or 304 recommended)	3
		<b>UNIV 103 or Open Elective</b> (Open Elective cannot be a course from major dept)	3

**Advanced Writing (AW) Course**

Grade	Course No.	Title	Cr
	ENGL ____	Select <b>ONE</b> from: • ENGL 312 Technical Writing • ENGL 316 Business Writing • ENGL 319 Science Writing	3

**GENERAL EDUCATION REQUIREMENTS CHECKLIST:**

Three G1, G2, or G3 courses at **200-LEVEL OR HIGHER:**

Three **WRITING** [W] courses (does not include ENGL 312/316/318/319): (1) \_\_\_\_\_ (2) \_\_\_\_\_ (3) \_\_\_\_\_

One **CULTURAL DIVERSITY** [D] course: NOTE: AENG 303 is a [D] (1) \_\_\_\_\_

**FREE ELECTIVES [11 credits of Free Electives needed to complete 120 credits required for degree]**

_____	_____	___ cr
_____	_____	___ cr
_____	_____	___ cr
_____	_____	___ cr

Effective Fall 2020