

## BS in Packaging Engineering Technology Curriculum Map

Courses and Activities Mapped to BS in Packaging Engineering Technology Outcome Set

1: Design, Fabricate, and Test Packaging Systems			2: Effective Communication			3: Effective Problem Solving		
1.1: Apply fundamental design principles	1.2: Create design and fabricate package system	1.3: Test fabricated package systems	2.1: Exhibit good verbal communication skills	2.2: Demonstrate fluency in written communication	2.3: Deliver formal presentations <small>Deliver formal presentations using appropriate technology</small>	3.1: Use accepted methods to solve problems	3.2: Use management principles to solve problems	3.3: Interact with team members to communicate <small>Interact with team members to communicate and solve problems</small>

### Courses and Learning Activities

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PKG 180 PKG 180 - Introduction to Packaging Design	I						I		I
PKG 280 PKG 280 - Packaging Materials and Testing I	I						I		I
PKG 380 PKG 380 - Packaging Materials and Testing II	I						I		I
PKG 482 PKG 482 - Package Development and Analysis	P						P	P	P
PKG 484 PKG 484 - Distribution Packaging Design, Analysis and Testing	P						P	P	P
PKG 486 PKG 486 - Packaging Machinery Systems	R			R	R	R	R	P	P
PKG 489 PKG 489 - Packaging Industry	R			R	R	R	R	R	R

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Projects									
MET 37X	P						I		
MET 103 MET 103 - Introduction to Technical Graphics with CAD	I						I		
TMGT 351 TMGT 351 - Professional Internship				R	R	R	R	R	
TMGT 429 TMGT 429 - Workplace Law for the Technical Manager				P	P	P			
TMGT 471 TMGT 471 - Production Planning and Control I							P	P	
TMGT 361 TMGT 361 - Quality Systems and Tools							P	P	
TMGT 478 TMGT 478 - Industrial Organization and Functions	R						R		R
TMGT 492 TMGT 492 - Industrial Supervision				P	P	P		R	R
MATH 241 MATH 241 - Principles of Statistics									
MATH 115 MATH 115 - College Algebra									
PHYS 105 PHYS 105 - General Physics I									

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CHEM 100 CHEM 100 - Chemistry: Reactions and Reason									
TMGT 131 TMGT 131 - Introduction to Manufacturing Technology				I	I	I			
TMGT 430 TMGT 430 - Senior Seminar				R	R	R			

**Legend:** I Introduced P Practiced R Reinforced

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### OLD BS in Packaging Engineering Technology Curriculum Map

Courses and Activities Mapped to OLD BS in Packaging Outcome Set

OBJ 1 : Communicate effectively Communicate effectively and professionally.			OBJ 2: Problem Solving Solve problems that arise in the field of packaging.				OBJ 3: Packaging related decisions Perform design and engineering functions			OBJ 4: Professionalism Perform as a professional		
Verbal communication skills Ability to apply oral communication skills in both technical and non-technical environments	Written communication Ability to apply written and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature	Presentation skills Ability to apply written and oral skills, and appropriate use of technical literature in presentations	Accepted methods Ability to select and apply knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities	Problem solving techniques Ability to identify, analyze, and solve broadly-defined engineering technology problems	Teamwork Students will interact with team members to communicate and solve problems.	Performance Commitment to quality, timeliness, and continuous improvement	Design principles Ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives	Analyze systems Ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes	STEM principles Ability to select and apply a knowledge of mathematics, science, engineering and technology to engineering technology problems that require the application of principles and applied procedures or methodologies	Professional Development Understanding of the need for and an ability to engage in self-directed continuing professional development	Professional ethics and diversity Understanding of and a commitment to address professional ethical responsibilities including a respect for diversity	Technology solutions Knowledge of the impact of engineering technology solutions in a societal and global context

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PKG 280 PKG 280 - Packaging Materials and Testing I				I		I		I	I	I		
PKG 380 PKG 380 - Packaging Materials and Testing II				I		I		I	I	I		
PKG 482 PKG 482 - Package Development and Analysis				P	P	P		P	P	P		
PKG 484 PKG 484 - Distribution Packaging Design, Analysis and Testing				P	P	P		P	P	P		
PKG 486 PKG 486 - Packaging Machinery Systems	R	R	R	R	P	P		R	R	R		
PKG 489 PKG 489 - Packaging Industry Projects	R	R	R	R	R	R		R	R	R		

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	<b>Verbal communication skills</b> Ability to apply oral communication skills in both technical and non-technical environments	<b>Written communication</b> Ability to apply written and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature	<b>Presentation skills</b> Ability to apply written and oral skills, and appropriate use of technical literature in presentations	<b>Accepted methods</b> Ability to select and apply knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities	<b>Problem solving techniques</b> Ability to identify, analyze, and solve broadly-defined engineering technology problems	<b>Teamwork</b> Students will interact with team members to communicate and solve problems.	<b>Performance</b> Commitment to quality, timeliness, and continuous improvement	<b>Design principles</b> Ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives	<b>Analyze systems</b> Ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes	<b>STEM principles</b> Ability to select and apply a knowledge of mathematics, science, engineering and technology to engineering technology problems that require the application of principles and applied procedures or methodologies	<b>Professional Development</b> Understanding of the need for and an ability to engage in self-directed continuing professional development	<b>Professional ethics and diversity</b> Understanding of and a commitment to address professional ethical responsibilities including a respect for diversity	<b>Technology solutions</b> Knowledge of the impact of engineering technology solutions in a societal and global context
MET 103 MET 103 - Introduction to Technical Graphics with CAD				I				I					
TMGT 351 TMGT 351 - Professional Internship	R	R	R	R	R		R			R		R	
TMGT 429 TMGT 429 - Workplace Law for the Technical Manager	P	P	P								P		
TMGT 471 TMGT 471 - Production Planning and Control I				P						P			
TMGT 361 TMGT 361 - Quality Systems and Tools				P				P	P				
TMGT 478 TMGT 478 - Industrial Organization and Functions				R		R	R	R	R	R		P	
TMGT 492 TMGT 492 - Industrial Supervision	P	P	P		R	R					R		
MATH 241 MATH 241 - Principles of Statistics										P			
MATH 115 MATH 115 - College Algebra										I			
PHYS 105 PHYS 105 - General Physics I										I			
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TMGT 131 TMGT 131 - Introduction to Manufacturing Technology	I	I	I				I				I	I	I
TMGT 430 TMGT 430 - Senior Seminar	R	R	R				R				R	R	R

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