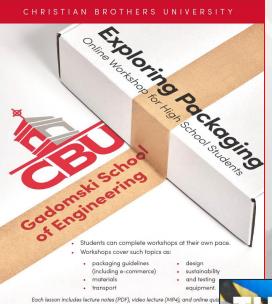
# **HIGH SCHOOL**







Students can earn a certificate of completion upon finishing the course.

Want to host a workshop

at your school?

Contact, Dr. Pong Malasr pong@cbu.edu for more



handling, business management, and even liberal arts curricula.

CBU offers a Packaging minor, and a Bachelor of Science in Engineering Management with a Packaging Concentration at the undergraduate level as well as a Packaging Engineering Graduate Certificate for Master of

### **INTEGRATIVE STUDIES**



CHRISTIAN BROTHERS UNIVERSITY cbu.edu/packaging

SCIENCES

Calculus

### **DUAL ENROLLMENT** Packaging Courses @ CBU

CBU offers courses for credit to high school students under its Dual Enrollment Program at a discounted rate.

Two freshman packaging courses are available as Dual Enrollment courses:

Covers packaging guidelines, materials, sustainability, marketing, transport packaging, medical packaging, food packaging, and computer applications. (1 credit)

PKG 102. Introduction to Packaging Design Covers branding, graphic elements, logo, box design, printing and decorating, design for sustainability, software tools, and innovative packaging design. (1 credit)

Both are 100% asynchronous online courses. Students study course materials at their own

convenient time.

for High School Students

**Packaging Lab Tours** 





The CBU Packaging Lab has been certified by the International Safe Transit Association (www.ista. org) as a commercial testing laboratory since 2009.

Demonstrations included in the lab tour

- Drop Test Vibration Test
- Incline Impact Test
- Tours are limited to 50 participants

Pong Malasri, CPP, LPDP, CTPII Bob Moats, CPLP Techno Ali Pourhashemi, PhD

Larry Rutledge John Ventura, PhD. PE

re information, please contact Pong Malasri at pong@cbu.edu



# PACKAGING SUMMER **RESEARCH PROGRAM**





Made paperboard from waste materials, including rice hulls and wine corks.





Studied the temperature distribution in an environmental chamber using portable temperature data loggers.

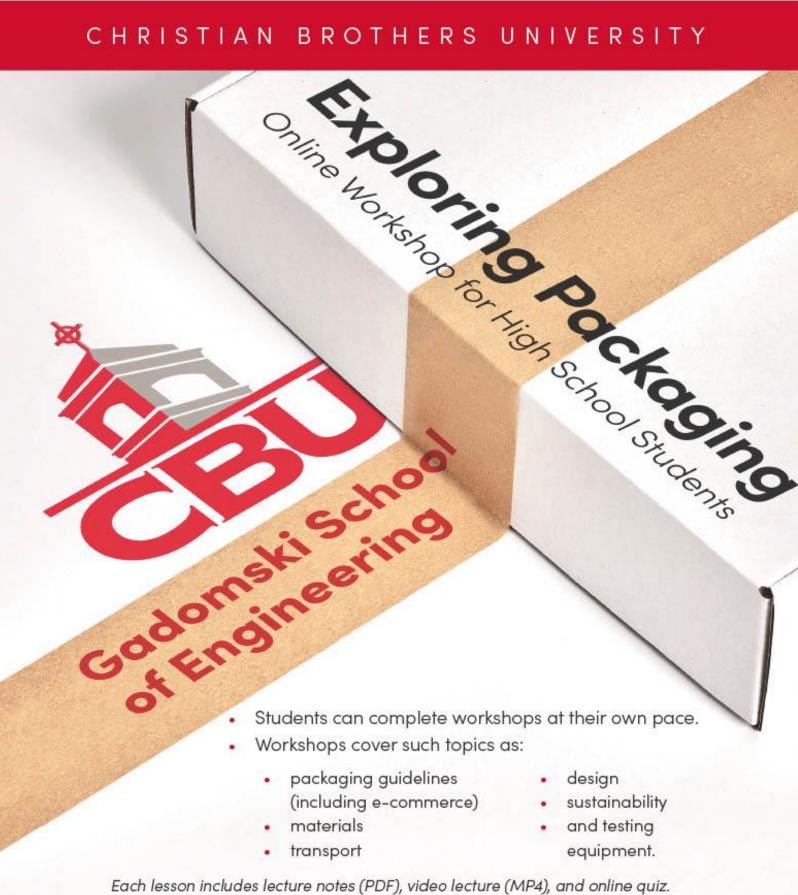


ARTS

 Writing & Critical Literacy Speech

Communications
Professional

## CHRISTIAN BROTHERS UNIVERSITY



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pong@cbu.edu for more information

o Contact, Dr. Pong Malasri at



# Packaging Lab Tours

for High School Students







The CBU Packaging Lab has been certified by the International Safe Transit Association (www.ista. org) as a commercial testing laboratory since 2009.

## Demonstrations included in the lab tour

- Drop Test
- Vibration Test
- Compression Test
- Incline Impact Test
   Tours are limited to 50
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**OUR TEAM** 

Pong Malasri, CPP, LPDP, CTPII
Bob Moats, CPLP Technologist
Ali Pourhashemi, PhD

Henry Rhodes
Larry Rutledge
John Ventura, PhD, PE





# DUAL ENROLLMENT Packaging Courses @ CBU



CBU offers courses for credit to high school students under its Dual Enrollment Program at a discounted rate.

Two freshman packaging courses are available as Dual Enrollment courses:

- PKG 101. Introduction to Packaging
   Covers packaging guidelines, materials, sustainability, marketing, transport packaging, medical packaging, food packaging, and computer applications.
   (1 credit)
- PKG 102. Introduction to Packaging Design Covers branding, graphic elements, logo, box design, printing and decorating, design for sustainability, software tools, and innovative packaging design. (1 credit)

Both are 100% asynchronous online courses. Students study course materials at their own convenient time.

For more information about PKG 101/102, contact Dr. Pong Malasri at pong@cbu.edu

For more information about dual enrollment, contact Ms. Paula Bingham, Asst. Director of Pathway Programs at dual@cbu.edu or (901) 321–3265

CBU.EDU/DUK



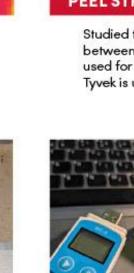
# PACKAGING SUMMER RESEARCH PROGRAM\*

\* Invite only

During the months of June and July CBU hosts select students to participate in a program in which they perform research projects simulating actual problems and solutions encountered in packaging scenarios. Samples of past projects are shown below.



Infrared cameras were used to measure the surface temperature of corrugated paperboard and PETG plastic sheets. Students studied the rate of temperature dissipation after the samples were removed from an environmental chamber.



Made paperboard from waste materials, including rice hulls and wine corks.

SUSTAINABILITY PROJECT



Studied the effect of temperature on peel strength between PETG plastic and Tyvek. PETG is commonly used for making medical device plastic trays, while Tyvek is used as lid for these trays.



Studied the temperature distribution in an environmental chamber using portable temperature data loggers.





PACKAGING is an interdisciplinary field, in which scientific and engineering principles are applied to develop and produce packages that contain, protect and preserve, transport, inform, and market products. It includes the study of products, packages, materials, containers, structures, methods, machinery, and transportation. It also combines such disciplines such as chemistry, physics, material science, machine design, industrial engineering, , material handling, business management, and even liberal arts curricula.

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# INTEGRATIVE STUDIES

#### **ENGINEERING**

- Distribution Packaging
- Packaging Materials
- Packaging Machinery
- Healthcare Packaging
- Cold Chain Packaging
- Internship
- Certifications

### BUSINESS

- Management
- Accounting
- Finance
- Economics
- Supply Chain
- Business Ethics

### SCIENCES

- Calculus
- Physics
- Chemistry
- Environmental Biology
- Engineering Mechanics
- Statistics
- Computer Applications

### ARTS

- Writing & Critical Literacy
- Speech Communications
- Professional Communications
- Liberal Studies



CHRISTIAN BROTHERS UNIVERSITY
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