	7/14/2022	DATE
~		REQUIRED COURSE
		ELECTIVE COURSE

Allied Health DIVISION

Lake Land College

				Course Information For	m								
COURSE NUMBER:		DHY-089	Y-089 TITLE: (30 Characters Max) Laboratory Procedures/			s/Dental H	Hygiene						
SEM CR HRS:	3	Lecture		2			Lab:	2				ECH:	4
Course Level:		Gen Ed / IAI Baccalaureate12 /Non-IAI		/Technical I/ Not in Degree Audit	Clinic	cal Practi	cum:	0	Int	SOE/ ernship:	0	SOE ECH:	0
COURSE PCS #		12 - 51.0601		IAI Code						Ċ	Contact Hou	rs Per Week	
Repeatable (Y/N):		Pass/Fail (Y/N):		Variable Credit (Y/N):		Min:		Max:		16 Wks	200	8 wks	400
Prerequisites:		Admission into the Dental	Hygiene Pr	ogram									
Catalog Description: (40 W Limit)	/ord	his course is a comprehensive study of the science of dental materials and their application in dental hygiene.											

List the Major Course Segments (Units)		Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Non-Clinical Internship/ SOE
Introduction to Dental Materials		2	1		
Oral Environment and Patient Considerations		2	2		
Physical and Mechanical Properties of Dental Materials		2	2		
General Handling and Safety of Dental Materials in the Dental Office		2	2		
Principles of Bonding		2	2		
Composites, Glass Ionomers and Compomers		2	2		
Preventive and Desensitizing Materials		2	2		
Teeth Whitening Materials and Procedures		2	2		
Dental Ceramics		2	2		
Dental Amalgam		2	2		
Metals and Alloys		2	2		
Dental Implants		2	1		
Abrasion, Finishing, Polishing, and Cleaning		2	2		
Dental Cement		1	1		
Impression Materials		1	2		
Gypsum and Wax Products		1	2		
Polymers and Prosthetic Dentistry		1	1		
Provisional Restorations		1	1		
Preventative and Corrective Oral Appliances		1	1		
	TOTAL	32	32	0	0

		EVALUATION		
QUIZZES 🗹	EXAMS 🗹	ORAL PRES	PAPE	RS 🗹
LAB WORK	PROJECTS 🗹	COMP FINAL	I OTHI	ER 🗆

COURSE MIATERIALS		
	Dental Materials Clinical Applications for Dental Assistants and Dental Hygienists	
111 LE.	and Dental Hygienists	
AUTHOR:	Eakle, S. and Bastin, K.	
PUBLISHER:	Elsevier	
VOLUME/EDITION/URL:	4th	
COPYRIGHT DATE:	2021	

TITLE	Darby's Comprehensive Review of Dental Hygiene	
AUTHOR	Blue, C.	
PUBLISHER	Elsevier	
VOLUME/EDITION/URL	8th	
COPYRIGHT DATE	2017	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Introduction to Dental Materials	3	List and compare the agencies responsible for setting standards and specifications of dental materials.

4	Define stress, strain, and ultimate strength and compare the ultimate strength of restorative materials during each type of stress to tooth structure.
4	Describe the reaction stages a material undergoes to acquire its final state and describe the variables in the manipulation of a material.
4	Explain the components of the Occupational Safety and Health Administration Hazard Communication Standard.
4	List the factors that contribute to tooth sensitivity after bonding.
4	Describe how fillers affect the properties of composites.
4	List the components of sealant material. Recite the steps for applying sealants.
4	Describe how whitening materials penetrate the tooth.
4	Compare the clinical applications of restorations made from porcelain with those made from lithium desilicated.
4	List the main components in dental amalgam and define creep, corrosion, and tarnish.
4	Differentiate between high-nobles, noble, and base- metal alloys.
3	Describe the components of an implant used for a crown and describe the most common materials used for dental implants.
4	Define abrasion, finishing, polishing, and cleaning. Describe methods by which dental abrasives are applied.
2	Compare the various types of cements for pulpal protection, luting, restorations, and surgical dressings. Identify the components of the various dental cements.
3	Describe the purpose of an impression and describe the three basic types of impressions.

Gypsum and Wax Products	3	Differentiate between negative and positive reproduction. Differentiate among diagnostic cast, working cast, and dies. Identify common components of dental waxes.
Polymers for Prosthetic Dentistry	2	Describe the formation of long-chain polymers from monomers.
Provisional Restorations	2	Explain the purpose of provisional coverage.
Preventive and Corrective Oral Appliances		Describe the uses of mouth guards. List the materials for the fabrication of mouth guards.
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COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	Define vocabulary terminology words as it applies to dental materials.
	Describe proper maintenance of dental materials and its relationship to the oral environment.
	List properties of dental materials.
	Identify certain dental materials as it pertains to its selection in the oral cavity.
	Demonstrate laboratory techniques as regards to dental materials.

* Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.