

COURSE SYLLABUS

Course Title:	Dental Materials for the Dental Assistant	Date submitted:	November 4, 2018 (AAC: 18-75)	
Department:	BCAHM			
Curriculum:	Dental Assisting			
Course Descriptors: Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	Course Code: (eg. ACC 101)	DAS*130	Prerequisites:	
	Course Type:	X		Dental Assisting Research Seminar (DAS*142)
	A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: Internship M: Seminar P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/ Clinical/Lab Z: Combined Lecture/Studio	Elective Type:	G	Corequisites:
	AH: Art History E: English FA: Fine Arts G: General HI: History HU: Humanities LA: Liberal Arts FL: Foreign Language M: Math S: Science SS: Social Science	Credit Hours:	3	
	Developmental: (yes/no)	No	Other Requirements:	
	Lecture:	2		
	Clinical:	0		
	Lab:	3		
	Studio:	0		
	Other:	0	Current BLS/CPR for Health Care Professionals and First Aid Certification through a Dental Assisting National Board approved provider	
TOTAL:	5			
Contact Hours:	Class Maximum:	24 Lec 12 Lab		
	Semesters Offered:	F		
Catalog Course Description:	Provides the knowledge and skills required of the dental assistant in the preparation and application of dental materials. Laboratory exercises will complement the didactic theory through manipulation of dental materials.			
Topical Outline: List course content in outline format.	<p>[The outline should be in title case and use the numbering format below. You may not have subtopics, but if you do, here is the format.]</p> <ol style="list-style-type: none"> Laboratory equipment, laboratory safety, OSHA/Hazard Communication Program Clinical/laboratory abrasive/polishing agents and laboratory appliance polishing procedures and infection control Laboratory appliance polishing procedures and infection control General physical/chemical properties of dental materials <ol style="list-style-type: none"> Isolation Systems Liners and Bases Matrix systems Prime and bonding agents 			

	<ol style="list-style-type: none"> 9. Direct restorative materials 10. Gypsum materials and techniques 11. Impression materials for preliminary and final impression techniques 12. Preliminary impression technique; occlusal registration; and infection control 13. Study casts 14. Acrylics and or thermoplastics 15. Tooth Whitening 16. Custom impression trays, mouth guards, and orthodontic retainers 17. Tissue retraction techniques 18. Assisting in final impression procedures and contemporary impression techniques/technology 19. Waxes 20. Fabrication of casts, temporary crown and/or bridge 21. Dental cements, bases and varnish
<p>Outcomes: Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.</p>	<p>Upon successful completion of this course, the student will be able to do the following:</p> <ol style="list-style-type: none"> 1. Interpret and evaluate Safety Data Sheets 2. Demonstrate laboratory safety and chemical safety 3. Describe a hazardous communication program and the components of a hazardous materials label 4. Explain and demonstrate safe mercury handling procedures 5. Describe the physical and chemical properties of restorative materials 6. Identify the components and demonstrate the application procedures of isolation system(s) 7. List the materials utilized for liners and bases and explain the application process and purpose of each 8. Identify various matrix systems and their components and demonstrate assisting with each 9. Differentiate prime and bonding agents and explain the application steps for each 10. Describe the components and setting reactions of direct restorative materials 11. Manipulate various direct restorative materials 12. List each type of gypsum material and describe their use 13. List the types and uses of impression materials and demonstrate the proper mixing technique and application of each material 14. Create a study cast and occlusal registration 15. Distinguish acrylics and/or thermoplastics 16. Describe tooth whitening systems and their benefits/contraindications 17. Fabricate a whitening tray and/or mouth guard and/or orthodontic retainer 18. Identify custom impression tray materials and fabricate a custom impression tray 19. Demonstrate assisting with final impression procedures for fixed and/or removable appliances 20. Describe current impression technologies 21. Differentiate dental waxes and explain the use of each 22. Fabricate temporary crown and/or bridge 23. Measure and mix dental cements to luting consistency and explain the use of each 24. Demonstrate procedures in assisting with the cementation of a temporary and/or permanent crown or bridge <p><u>Dental Assisting Program Abilities:</u> Upon successful completion of all courses in the program, students will show proficiency in:</p> <ol style="list-style-type: none"> 3. Teamwork - Effectively engages in interpersonal activities and teamwork. 5. Technology Literacy - effectively uses technology to accomplish assigned tasks.

	<p>GENERAL EDUCATION: <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i></p> <p>11. Written Communication - Students will be prepared to develop written texts of varying lengths and styles that communicate effectively and appropriately across a variety of settings.</p> <p>Demonstrates: Writes articulate texts using appropriate evidence and appeals as determined by the rhetorical situation.</p> <p>Does Not Demonstrate: Writes texts lacking appropriate evidence and appeals as determined by the rhetorical situation.</p>
<p>Evaluation: List how the above outcomes will be assessed.</p>	<p>Assessment will be based on the following criteria:</p> <ol style="list-style-type: none"> 1. written examinations 2. case presentations 3. laboratory assignments 4. performance of skills
<p>Instructional Resources:</p> <p>List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p>	<p>Required: None</p> <p>Desired: None</p>
<p>Textbook(s)</p>	<p><u>Dental Materials, Properties and Manipulation, Powers & Wataha (latest edition)</u></p> <p><u>Modern Dental Assisting, Bird & Robinson (latest edition)</u></p>