# DA1 COURSE OUTLINE

Instructors: Judith Nelson Roxanne Boriack

Lois Parento Barbara Pope

Office Hours: Judith Nelson - Monday 10:00 a.m. - 12:00 p.m.

Friday 9:00 a.m. - 10:00 a.m.

Lois Parento – Monday 10:00 a.m. – 11:00 a.m. Wednesday 1:30 p.m. - 2:30 p.m. Friday 11:00 a.m. - 12:00 p.m.

Office Location: DA 10

**Attendance:** Attendance to each and every class in the Dental Assisting Program is mandatory. If you are absent or late, you must call this department, 638-0370. The program policies outlines procedures for all make up work.

Appearance: During lecture and laboratory classes, correct uniform will be worn, hair will be up in the appropriate manner, and minimum jewelry will be worn (as outlined in the program policies) or you will not be allowed into the classroom until you are in compliance.

## **GRADING**

Each assignment, examination, and lab project has an assigned point value. The student's grade is determined based on total points earned out of the total points possible.

> Total points you earned = your % earned Total points possible

> > 90 - 100% of total points = A 80 - 89 %70 - 79 % = C60 - 69% = D

0 - 59% = F

PERSONAL COMMUNICATION DEVICES (TAPE RECORDERS, CELL PHONES & PAGERS) ARE NOT ALLOWED IN THE CLASSROOM

FINAL DROP DATE IS FRIDAY OCTOBER 15, 1999

SCHEDULE - Fall 1999-LAB A

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00 - 8:50		Infro to DA lecture			8:30
		Pope			Chairside Lab A
9:00 - 9:50	Operative Lecture	<b>-</b>	Radiology Lecture	Chairside Lecture	Parento
	Parento		Nelson	Parento	
10:00 - 10:50	<b>→</b>	Radiology Lab A	<b>→</b>	<b>→</b>	<b>→</b>
		Nelson			
11:00 - 11:50	HONCH	<b>→</b>	Chairside Lecture	Chairside Lab A	Lunch
			Neison	Nelson	
12:00 - 12:50	Radiology Lecture		<b>→</b>		Biodental Lecture
	Nelson	<b>→</b>	Lunch @ 12:30	<b>→</b>	Boriack
1:00 - 1:50	<b>→</b>	ų Juni	1:30 Operative Lecture	1:30	
			Parento	Lunch	<b>→</b>
2:00 - 2:50	Biodental Lecture	Operative Lab A	<b>→</b>	Operative Lab A	Radiology- Lab A
	Boriack	Parento	•	Parento	Boriack
3:00 - 3:50		<b>→</b>			
	<b>→</b>			$\rightarrow$	$\rightarrow$
4:00 - 4:50		<b>→</b>			<b>→</b>
		<b>→</b>			

SCHEDULE
- Fall 1999-LAB B

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00 - 8:50		Intro to DA lecture			Radiology Lab B
		Pope			Boriack
9:00 - 9:50	Operative Lecture	<b>→</b>	Radiology Lecture	Chairside Lecture	<b>→</b>
	Parento		Nelson	Parento	
10:00 - 10:50	<b>→</b>	Operative Lab B	$\rightarrow$	$\rightarrow$	$\rightarrow$
		Parento			
11:00 - 11:50	LUNCH	$\rightarrow$	Chairside Lecture	Operative Lab B	Lunch
			Nelson	Parento	
12:00 - 12:50	Radiology Lecture		<b>→</b>		Biodental Lecture
	Nelson	<b>→</b>	Lunch @ 12:30	<b>→</b>	Boriack
1:00 - 1:50	<b>→</b>	Lunch	1:30 Operative Lecture		-
			Parento	Lunch	<b>→</b>
2:00 - 2:50	Biodental Lecture	Radiology Lab B	<b>→</b>	Chairside Lab B	Chairside - Lab B
	Boriack	Nelson		Nelson	Parento
3:00 - 3:50		>			
	<b>→</b>			<b>→</b>	<b>→</b>
4:00 - 4:50		<b>→ →</b>		4:30	4:30

# KINGS RIVER COMMUNITY COLLEGE

# CREDIT COURSE OUTLINE

nber		SSISTING			(3) 23
	•	Title			Units
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	nodis per week.	Lab. 16	Credit: Degr	ee applicable _	X
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				collegiate basi	
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rt-	term Course:				
	Hours per course	Lec			
		Lab	General educa		
Gr	rading Basis:		Graduation re		<del></del>
•	Grading scale only	X		y <u>Dental Assis</u>	ing
	CR/NC option		10) California Stat General educa		
	CR/NC only		(Use CSU de		No
			Baccalaureate		No
	Ť.		11) Variable Units:		No
En	ntrance Skills/Basic		12) Repeatable: (A		
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## DA 1 COURSE TITLE AND NUMBER

### I. COURSE OUTCOMES/OBJECTIVES:

List major objectives in terms of the observable knowledge and/or skills to be attained as a result of completing this course.

# A. Radiology I:

The student will:

- 1. Be able to identify developmental disturbances of the teeth and supporting bone, and pathological lesions apparent on radiographs.
- 2. Demonstrate the skills necessary to expose, process, mount and evaluate radiographic surveys taken on manikins and out patients for diagnostic quality.
- 3. Explain and practice the theory of radiation safety and hygiene. Describe the ALARA concept, describe and practice effectively procedures for radiation protection for operator and patient, and describe methods of monitoring radiation exposure to operators.
- 4. Complete the didactic and preclinical experience as outlined by the California State Board of Dental Examiners for partial fulfillment of the radiation safety certification qualification.
- 5. Demonstrate adequate knowledge, technical skills and the per clinical competency to make sound judgments in the utilization of dental intra-oral radiography.
- 6. Conduct a complete oral examination including recording of all data on appropriate forms and recognition of normal vs. abnormal tissue appearance.
- 7. Describe the properties of x-radiation and explain how cumulative effects damage the body tissues.
- 8. Describe and demonstrate barriers to infection including operator attire, equipment barriers/wraps.
- 9. Describe and demonstrate appropriate infection control procedures when preparing the operatory for a patient, exposing radiographs on patients, and in manual and automatic processing of radiographs.
- 10. Identify all landmarks or structures normally seen on radiographs of maxillary and mandibular tooth areas.
- Describe and demonstrate correct film placement for periapical, occlusal, and bitewing exposures.
- 12. Describe paralleling technique and bisecting the angle technique for radiographic exposures.
- 13. correctly identify and correct errors in technique in exposed radiographs, including incorrect packet placement, cone cut, incorrect vertical and horizontal angulation.
- 14. Identify dental film sizes and describe their recommended uses.
- 15. Identify dental x-ray machine components and demonstrate their functions.
- 16. Use the Department of Health and Human Service guidelines for prescribing radiographs in determining a patient's need for radiographs.
- 17. Identify the terms used to measure radiation.
- 18. Recognize and describe the radiographic appearance of all structures of teeth and the alveolus.

19. Complete two sets bitewings on DXTTR; one set bitewings on an outpatient; two full mouth series on DXTTR; one full mouth series on an outpatient; one mouth mirror inspection on an outpatient.

## B. Chairside Assisting 1:

The student will:

- 1. Demonstrate skills needed to assist the dentist at chairside utilizing four-handed dentistry techniques in team concepts; instrumentation and maintaining the operating field.
- 2. Practice appropriate management skills and utilize aseptic techniques while performing chairside tasks.
- 3. Identify, select and organize instruments and equipment for specific dental procedures.
- 4. Define physical, chemical and mechanical properties of selected dental materials.
- 5. Evaluate the influence variables of manipulation have on the properties.
- 6. Modify manipulative techniques to reduce adverse effects on the properties of the material being manipulated.
- 7. Interpret and comply with instructor/manufacturer instructions while manipulating selected dental materials.
- 8. Demonstrate skills necessary to perform selected laboratory and clinical dental procedures, i.e., instrument exchange, tray set up, alginate, gypsum infection control and sterilization, safety and patient management.
- 9. Practice safety precautions while performing laboratory and clinical dental procedures.
- 10. Practice the principles of professionalism by conforming to appearance standards, also using universal precautions when performing any tasks on patients. The student will comply with classroom hours and complete assigned tasks and participate in the classroom activities with a cooperative attitude.
- 11. Complete assigned projects, complete minimum three evaluation with a grade of 75% or better.
- 12. Be able to take impression of maxillary and mandibular arches for diagnostic and opposing models which have adequate extension and detail, without distortion.

#### C. Operative Instruments and Materials

The student will:

- 1. Define chemical, physical and mechanical properties of selected dental materials.
- 2. Evaluate the influence variables of manipulation have on the properties.
- 3. Interpret and comply with instructor/manufacturer instructions while manipulating selected dental materials.
- 4. Identify and differentiate among selected dental materials their chemistry, uses, manipulation and application.
- 5. Identify and describe deep base, insulating base, temporary restoration, and select the appropriate cement/s for each.
- 6. Demonstrate established safety protocols while performing experiment and pre-clinical procedures, i.e., mercury hygiene protocols, deep base, insulating base, matrix, temporary sedative restoration.
- 7. Select and correctly use the appropriate armamentaria and materials required to perform assigned experiment and pre-clinical procedures.
- 8. Demonstrate established manipulative technique and application of selected dental materials.

- 9. Demonstrate skills necessary to perform selected preclinical laboratory procedures, i.e., cements, deep base, varnish, insulating base, matrix, temporary sedative, dressing, prepare amalgam, composite.
- 10. Complete assigned projects. Complete a minimum of three evaluations, each project, with a grade of 75% of better.
- 11. Identify selected handcutting and rotary instruments.
- 12. Identify uses of selected handcutting and rotary instruments.
- 13. Describe care and sterilization of handcutting and rotary instruments.
- 14. Identify various handpieces and choose the correct shank style for each.
- 15. Differentiate washed field and dry field techniques.
- 16. Demonstrate O.S.H.A. guidelines for handling hazardous materials, i.e., mercury.
- 17. Demonstrate mercury hygiene protocols.
- 18. Demonstrate competence in personal use of protective barriers, i.e., gloves, masks, shield, and eyewear.

#### D. Biodental I

The student will:

- 1. Identify designated landmarks of the face, oral cavity, and skull.
- 2. Identify origin and insertion of muscles of mastication and describe the action(s) of each.
- 3. Identify origins of nerves and blood vessels that supply specific areas of the head and neck.
- 4. Define selected dental terms including prefixes, suffixes and roots.
- 5. List the function of each tissue of the tooth and periodontium and correctly label these tissues on a diagram.
- 6. Recognize and describe functional tooth groups and designated odontographical landmarks using correct dental terminology.
- 7. Classify the occlusion of selected study models of permanent and mixed dentition utilizing the angle method.
- 8. Identify and label selected cavity preparations.
- 9. Chart existing lesions and restorations utilizing designated symbols and a two-color system.
- 10. Recognize normal versus abnormal tissue appearance.

## E. Introduction to Dental Assisting

The student will:

- 1. Identify the members of the dental health team.
- 2. Identify the requirements for education, licensing and license renewal for each member of the dental health team, as stated in the California Dental Practice Act.
- 3. Identify the duties delegated in the California Dental Practice Act, to auxiliary dental health team members.
- 4. Identify the level of dentist supervision required for each duty.
- 5. Differentiate between legal duties and ethical responsibilities and relate them to malpractice issues.
- 6. Explain the standard of care; implied and informed consent; prudent man.
- 7. Identify and explain the structure and purposes of professional dental organizations.
- 8. Identify demeanor, appearance, and personal qualities of a professional dental auxiliary. Conform to professional standards while in the classroom and clinical training facilities.

Lecture Hours: 3

Lecture Hours: 10

- 9. Identify and evaluate personality types and relate their individual type to interpersonal communications and patient management.
- 10. Differentiate between verbal and nonverbal communication and relate each to the communication cycle.
- 11. Identify types of human behavior and defense mechanisms and describe the dental assistant's role in patient behavior modification.
- 12. Identify selected special patients and describe appropriate patient management skills for each.
- 13. Purchase malpractice insurance by becoming a student member of the American Dental Assistants Association.
- 14. Purchase a copy of the California Dental Practice Act.

## **COURSE OUTLINE - Dental Assisting 1**

## A. Radiology I

- 1. Introduction, characteristics of radiation, and dental unit

  Lecture Hours: 4
  - a. Discovery of Roentgen Ray, and early progress
  - b. Modern use of dental radiography
  - c. Types and characteristics of radiation
  - d. Properties of x-radiation and electromagnetic spectrum
  - e. X-radiation production, primary and secondary
  - f. Ionization
  - g. Parts and components of the x-ray unit
  - h. Amperage, voltage, transformer, and control devices
- 2. Technical aspects of radiation production
  - a. Principles of x-ray tube operation
  - b. Significance of electron activity
  - c. Requirements of good radiographs
  - d. Variable radiation control factors
  - e. Effects of milliamperage, kilovoltage and exposure time
  - f. Effects of variation in distances
- 3. Effects of radiation exposure, hygiene and protection
  - a. Interaction of ionizing radiation on cells, tissue and matter
  - b. Cell sensitivity to radiation exposure
  - c. Factors that determine radiation exposure
  - d. Effects of radiation exposure, somatic and genetic tissue
  - e. Laws regulating the use of diagnostic radiation tissue
  - f. Personnel monitoring
  - g. Effects of collimation and filtration and the amount of an exposure dose rate
  - h. Measurement of x-radiation, terms and definitions
  - I. Radiation protection in the dental office, patient and personnel
  - j. Chronic and acute dose, definition and symptoms
  - k. Effects of oral radiation therapy
  - 1. Importance of patients medical history as related to previous experience
  - m. Equipment and structural requirements
  - n. Quality control
- 4. Dental films, principles of shadow casting, anatomical landmarks Lecture Hours: 8

		Composition of dental film		
	a. b.	Composition of dental film Film emulsion speeds		
		Types and sizes of dental films, intra and extra-oral		
	c. d.	Film protection and storage		
		•		
	e.	Film mounting procedures		
		1) mounts		
	r	2) mounting		
	f.	Factors influencing radiographic definition and distortion, geon	netry and imagery	
	g.	Principles of shadow casting Anatomical landmarks visible on intra-oral films		
	h.	<del></del>		
		1) normal radiographic anatomy		
		2) radiographic tooth anatomy		
		<ul><li>tooth development</li><li>basic restoration</li></ul>		
		,		
	T	5) anatomy of maxilla and mandible		
	I.	Evaluating films for diagnostic quality		
5	J. Daniel	Filing and storage of films	Tarabana Transca E	
5.		film processing	Lecture Hours: 5	
	a. L	Fundamentals of film processing	Takamatama IIamaa	
	b.	Darkroom equipment and illumination	Laboratory Hours:	0
	c. d.	Chemistry of processing		
		Processing procedure - manual		
	e. f.	Processing procedure - automatic		
		Maintaining processing tanks and automatic processor		
	g. h.	Rapid processing		
	п. I.	Film duplicating procedure		
		Quality control		
	j.	Processing errors and artifacts		
	k.	Operation of the view box	Tarabana Transce C	
6.		al techniques and film holding devices	Lecture Hours: 5	
	a. L	Intraoral procedures, patient positioning	T -b TT	•
	b.	Principles of the paralleling technique	Laboratory Hours:	3
	C.	Principles of the bisecting technique		
	d.	Horizontal and vertical angulation		
	e. f.	Snap-a-ray, XCP, Fitzgerald technique, biteblocks		
		Disinfection and sterilization of dental radiographic equipment		
7	g. The instant	Manipulation of the DXTTR manikins	T4 TT A	
7.		terproximal or bitewing examination	Lecture Hours: 2	
	a. L	Fundamental of the bitewing examination Film holders	I ahawatawa IIaaaa	10
	b.		Laboratory Hours:	19
	c. d.	Film positioning		
		Anterior and posterior surveys		
	e. f.	Alignment of the PID and horizontal angulation	VTTD	
0		Exposure, processing and mounting of the bitewing survey on I		
8.	· <del>-</del>	riapical examination	Lecture Hours: 2	
	a. b.	Fundamental of the periapical examination Film holders	Laboratory House	10
	U.	I IIII HOIGEIS	Laboratory Hours:	10

			-
	c.	Correct film placement techniques	
	d.	Sequence of exposure	
	e.	Periapical exposures - paralleling technique	
	f.	Periapical exposures - bisecting technique	
	g.	Exposure, processing, mounting of full mouth surveys on DX7	TTR
9.	Inte	rpretation of films for diagnostic quality	Lecture Hours: 3
	a.	Importance of identifying faulty radiographs	Laboratory Hours: 3
	b.	Technique errors:	
		1) incorrect film positioning	
		2) incorrect horizontal angulation	
		3) incorrect vertical angulation	
		4) incorrect PID positioning	
		5) incorrect exposure factors	
		6) miscellaneous errors	
	c.	Processing errors	
		1) incorrect time - temperature	
		2) faulty handling of films	
		3) chemical contamination	
		4) light leaks	
	d.	Fog on film	
		1) film storage	
		2) exposure settings	
		3) fog caused during processing	
10.	The	occlusal examination	Lecture Hours: 1
	a.	Reasons for the occlusal exam.	
	b.	Technical considerations	Laboratory Hours: 3
	c.	Maxillary occlusal examination	
	d.	Mandibular occlusal examination	
	e.	Localization techniques	
• •	f.	Occlusal surveys for children	
11.		ography for children	Lecture Hours: 1
	a.	Importance of radiography for children	
	b.	When to take radiographs on children	
	c.	Techniques for pedodontic radiography	
	d.	Film requirements for pedodontic surveys	
	e.	Interproximal and bitewing exams	
		1) posterior interproximal surveys	
		2) mandibular incisor surveys	
		3) mandibular canine surveys	
		4) mandibular molar surveys	
		5) maxillary incisor surveys	
		6) maxillary canine surveys	
		7) maxillary molar surveys	
12.	Radi	ography for edentulous patients	Lecture Hours: 1
	a.	Importance of radiography for edentulous	
	b.	Film requirements	

	c.	Techniques for edentulous survey	
13.	Extra	noral radiography	Lecture Hours: 2
	a.	Types of extraoral films	
	b.	Uses for extraoral films	
	C.	Cassettes and holding devices	
		1) screens and grids	
	d.	Extraoral films	
		1) lateral jaw surveys	
		2) lateral skull surveys	
		3) facial profile survey	
		4) posterior-anterior surveys	
		5) temporomandibular articulation surveys	
	e.	Cephalometric surveys	
		1) uses in orthodontics	
	_	2) landmarks and planes	
14.	Pano	ramic Radiography	Lecture Hours: 2
	a.	Fundamentals of panoramic radiography	
	b.	Concepts for focal troughs	
	c.	Geometry and sharpness of an image	
	d.	Importance of correct head positioning	
	e.	Types of panoramic units	
	f.	Operational procedures	
	g.	Advantages and disadvantages of panoramic films	
	h.	Technique errors	
	I.	Anatomy on panoramic films	
15.	Patie	nt management	Lecture Hours: 3
	a.	Value of patient education	
	b.	Program policy for outpatient procedure	Clinic Hours: 28
	c.	Appointment scheduling	
	d.	Outpatient exposure, processing and evaluation	
	e.	Benefits of preventive radiation	
1.0	f.	Goals of dental diagnostic radiography	
16.		ographic interpretation: Developmental disturbances of teeth and l	
	a.	Eruption of teeth	Lecture Hours: 2
	Ъ.	Impaction of teeth	
	c.	Supernumerary teeth (hyperdontia)	
	d.	Congenitally missing teeth	
	e.	Enamel pearls	
	f.	Fusion	
	g.	Gemination	
	h.	Concrescence	
	I.	Dens invaginatus	
	j.	Dilaceration	
	k.	Malposition of teeth	
	1.	Amelogenesis imperfecta	
	m.	Dentinogenesis imperfecta	
	n.	Fissural cysts	

	0.	Cleft	palate	
	p.		gerous cyst	
17.	•		interpretation: Caries, periodontal disease, and pulpal	periapical, and bone lesions
	a.	Carie		Lecture Hours: 2
	b.	Perio	dontal disease	
	c.		l lesions	
	d.	_	natic injuries	
	e.		gn bodies and root tips	
	f.		ction sockets	
	g.		and tumors	
	h.	•	bolic bone lesions	
		1)	salivary stones	
18.	Adv	,	liograph techniques, errors-causes and corrections	Lecture Hours: 1
	a.		ation of outpatient films for:	
		1)	contrast	
		2)	density	
		3)	correct film placement	
		4)	elongation	
		5)	foreshortening	
		6)	visible contacts	
		7)	anatomical landmarks	
		8)	pathology and dental restorations	
		9)	correct mounting	
		10)	processing errors	
19.	Oral		tion (mouth mirror inspection of the oral cavity)	Lecture Hours: 2
	a.		mentarium/materials needed	Eccure Mours.
	b.		of records	Laboratory Hours: 2
	c.		ostic aids	Zaboratory Irours. 2
	d.	_	cal/dental health history	Clinic Hours: 2
		1)	interpretation	
		2)	recording deviations from normal	
		3)	legal/ethical considerations	
		4)	supervised clinical practice	
20.	Vital	lsigns		Lecture Hours: 2
	a.	_	l pressure	
		1)	measurement techniques	Laboratory Hours: 1
		2)	recognition of normal ranges	
		3)	significance in treatment planning	Clinic Hours: 2
		4)	recording in a clinical record	
		<b>5</b> )	supervised clinical practice	
	Ъ.	Pulse	•	
		1)	measurement techniques	
		2)	recognition of normal ranges	
		3)	significance in treatment planning	
		4)	recording in a clinical record	
		5)	supervised clinical practice	
	c.	•	ration rate	

		1) measurement techniques	
		2) recognition of normal ranges	
		3) significance in treatment planning	
		4) recording in a clinical record	
		5) supervised clinical practice	
	d.	Temperature	
	۵.	1) measurement techniques	
		2) recognition of normal ranges	
		3) significance in treatment planning	
		4) recording in a clinical record	
		5) supervised clinical practice	
21.	Gen	eral patient appraisal	Lecture Hours: 2
	a.	Physical appearance	
	b.	Deviations from normal	Laboratory Hours: 1
	c.	Treatment planning considerations	
	d.	Head and neck inspections	
		1) landmarks	
		2) anatomy	
		3) nodes	
		4) glands	
		5) TMJ	
		6) recording in a clinical record	
		7) supervised clinical practice	
22.	Intra	a-oral soft tissue examination	Lecture Hours: 4
	a.	Landmarks and anatomy	
	b.	Pathology and deviations from normal	Clinic Hours: 2
	C.	Terminology and descriptive terms	
	d.	Examination sequence	
	e.	Recording in a clinical record	
••	f.	Supervised clinical practice	
23.		rting and classification of occlusion	Lecture Hours: 2
	a.	Tooth morphology	
	b.	Cavity classification	Clinic Hours: 2
	c. d.	Charting restorations	
		Charting abnormalities/pathology	
	e.	Inspection techniques	
		<ol> <li>direct observation</li> <li>indirect observation</li> </ol>	
		3) transillumination	
		4) uses of a triplex syringe	
	f.	Classification of occlusion	
	g.	Recording information in clinical practice	
	h.	Supervised clinical practice	
		•	
airsid	e Assisi	ting 1	
		Character and and a contract of the contract o	_

# B. Cha

1. Four handed dentistry Team positions

Lecture Hours: 7 Laboratory Hours: 8

	ъ.	Instrumentation	
		1) grasp	Clinic Hours: 3
		2) methods of transfer	
		3) practice	
	C.	Maintaining Operative Field	
		1) illumination	
		2) retraction	
		3) triplex syringe	
		4) oral evacuation	
		5) practice maintaining operative field	
2.	Safety	,	Lecture Hours: 10
	a. •	Laboratory rules	
	b.	Equipment	Laboratory Hours: 13
		1) gas	
		2) electrical	Clinic Hours: 2
		3) mechanical	
		4) first aid kit	
		5) fire extinguishers	
	c.	Personnel protocols, OSHA guidelines	
		1) uniforms	
		2) hair/jewelry	
		3) Universal precautions - eyewear, masks, face shields,	and gloves
		4) uses of protective barriers	<b>8.0</b> . <b>0</b>
		5) personal conduct, work habits	
	d.	Emergency procedures	
		1) minor emergencies	
		2) major emergencies	
		3) fire	
		4) medical emergencies	
		5) dental emergencies	
3.	Clinical pa	atient management	Lecture Hours: 6
	a	Management of the patient in the operatory	
		1) updating medical/dental history	Laboratory Hours: 6
		2) seating, monitoring, dismissing	•
		3) special patients	Clinic Hours: 2
	b.	Operatory equipment	
		1) identification	
		2) operation	
		3) maintenance	
		4) safety	
		5) infection control applications	
4.	Infect	ion control	Lecture Hours: 11
	a.	Goals of infection control in dental practice	
	<b>b</b> .	Principles of infection control and asepsis in dental practice	Laboratory Hours: 10
		1) barrier techniques	•
		2) patient protection	Clinic Hours: 2
		3) high risk patients	

		4)	equipment cleaning and disinfection	
		5)	immunization	
	c.	•	ical methods of infection control	
		1)	steam autoclave	
		2)	chemical vapor sterilizer	
		3)	transfer media	
		4)	dry heat	
		5)	flaming	
		6) 5)	ultraviolet light	
		7)	hot oil	
		8)	boiling water	
	d.		nical agents for infection control	
		1)	activated dialdehydes	
		2)	iodophors	
		3)	sodium hypochlorite	
		4)	phenolic compounds	
		5)	isopropyl alcohol	
		6)	quaternary ammonia	
	e.		lizer monitoring	
		1)	Physical monitors	
		2)	Chemical monitors	
	r	3)	Biological monitors	
	f.		's evaluations	
		1)	preparation of contaminated instruments	
		2)	hand washing	
		3)	preparation of specified disinfectants	
		4)	operation of specified sterilizers	
_	<b>C</b>	5)	operation of an ultrasonic cleaning device	
5.		sum proc		Lecture Hours: 7
	a. L		sification and composition	T 1 4 TT 40
	b.	Prope		Laboratory Hours: 10
	C.		surement, and measuring devices	
	d.	_	amentaria, and tray set ups	
	e.	Stora		
	f.		pulation	
		1)	pour rubber molds on primary and permanent dent	ition, edentulous, and cavity
		ъ.	classification	
	g.	_	nostic models	
		1)	pour cast	
		2)	place a base on the cast	
		3)	trim the cast properly	
		4)	polish the cast properly	
,		5)	articulate the cast properly	<u>.</u>
6.			ydrocolloid (Alginate)	Lecture Hours: 8
	a.		sification and composition	
	b.	_	erties - dimensional change	Laboratory Hours: 9
	c.	Arma	amentaria/tray set ups	

d. Disinfection and care of the impression Clinic Hours: 2 Manipulation and taking of the impression e. 7. Bite Registration Lecture Hours: 5 Wax a. 1) origin and classification Laboratory Hours: 6 2) properties (residual stress) 3) armamentaria/tray set ups Clinic Hours: 3 4) manipulation and occlusal registration disinfection and care of the wax b. ZOE impression paste composition 1) 2) uses and applications 3) properties 4) armamentaria/tray set ups 5) disinfection and care of the ZOE impression paste Polyvinylsiloxane bite registration c. 1) composition 2) triple tray technique 3) closed bite technique 4) open bite technique 5) properties 6) armamentaria/tray set ups 7) disinfection and care of the polyvinylsiloxane bite registration **Operative Instruments and Materials** 1. Dental cements Lecture Hours: 7 a. Zinc phosphate classification, composition, properties 1) **Laboratory Hours: 12** armamentaria 2) 3) uses 4) manipulation - timed practice b. Polycarboxylate 1) classification, composition, properties 2) armamentaria 3) uses 4) manipulation - timed practice c. Zinc oxide eugenol classification, composition, properties 1) 2) armamentaria 3) uses 4) manipulation - timed practice d. Glass ionomer 1) classification, composition, properties 2) armamentaria 3) manipulation - timed practice Calcium hydroxide

C.

e.

	1)	classification, composition, properties	
	2)	armamentaria	
	3)	uses	
	4)	manipulation - timed practice	
f.		phosphate	
	1)	classification, composition, properties	
	2)	armamentaria	
	3)	uses	
	4)	manipulation - timed practice	
g.	Varnis	sh	
	1)	classification, composition, properties	
	2)	armamentaria	
	3)	uses	
	4)	manipulation - timed practice	
h.		d fissure sealants	
	1)	classification, composition, properties	
	2)	armamentaria	
	3)	uses	
	4)	manipulation - timed practice	
Bas	es and line		
a.	Deep l		Lecture Hours: 6
	1)	sound dentin criteria	
	2)	pulp capping procedures	Laboratory Hours: 10
	3)	materials	
	4) 5)	armamentaria/tray set ups	
	5)	criteria for placing	
<b>b</b> .	6) Varnish	placement	
D.	1)	materials	
	2)	function	
	3)	armamentaria/tray set ups	
	4)	criteria for placing	
	5)	placement	
c.		ting base	
•	1)	materials	
	2)	function	
	3)	armamentaria/tray set ups	
	4)	criteria for placing	
	5)	placement	
Ten		lative dressing	Lecture Hours: 6
a.	Materi		
	1)	IRM	Laboratory Hours: 9
	2)	Zinc phosphate	
	3)	ZOE	
b.	Arman	nentaria/Tray set up	
c.	Criteria		
	1)	consistency	

2.

3.

		3)				
		2)		ensing/filling		
		3)		ng/anatomy		
		4) 5)		sal height		
		5)	marg			
	.1 D1	6)		ct/interproximal contour		
	a. Pi	acement	and re	movai		
4	Matrices				Lecture Hours: 7	
4.		Function	on/roti	nnala.	Lecture Hours: /	
	a.	runcu	OII/Ialii	male	I abayatawa Hayasa	ດ
	b.	Types			Laboratory Hours:	7
	U.	1)	strips			
		2)	band			
		3)		n forms		
	c.	Retain				
	<b>.</b>	1)	toffle			
		2)	ivory			
		3)		etained		
	d.	-		a/tray set up		
	e.	Band		and to the		
		1)	funct	on		
		2)	sizes	types		
		3)	criter	•		
		ŕ	a)	contact		
			b)	occlusal height		
			c)	gingival extension		
	f.	Wedge	;	-		
		1)	funct	on		
		2)	sizes	types/trimming		
		3)	criter			
			a)	direction		
			b)	contact/interproximal contour		
			c)	gingival margin closure		
	g.		nent an	d removal		
5.	. Dental amalgam				Lecture Hours: 7	
	a.	Silver	•			
		1)	_	onents	Laboratory Hours:	9
	•	2)	prope	rties		
	b.	Mercu	•	· · · · · · · · · · · · · · · · · · ·		
		1)	_	fication and purity		
		2)	toxic	-		
			a)	types		
			b)	systemic entry		
		2)	c)	signs/symptoms		
		3)		utions and hygiene protocols		
	c.	Manip				
		1)	alloy	mercury ratio		

	d.	Amalgam restoration procedure	
		1) tray set up	
		2) instrumentation	
		3) assistant's responsibility	
6.	Rest	orative Resins	Lecture Hours: 6
	a.	Unfilled resins	
	Ъ.	Filled resins	Laboratory Hours: 9
		1) conventional composites	•
		2) microfilled composites	
		3) light cure composites	
		4) classifications, compositions, properties	
		5) armamentaria/tray set up	
		6) instrumentation	*
		7) assistant's responsibilities	
		8) manipulation of materials	
7.	Hand	lcutting instruments	Lecture Hours: 8
	a.	Identification and classification	
	b.	Parts of hand instruments	Laboratory Hours: 9
		1) blade/bevel, nib	
		2) formulas	
		a) 3 number	
		b) 4 number	
	c.	Categories and uses	
		1) cutting	
		2) condensing	
		3) carving	
		4) basic setup	
		5) miscellaneous	
	d.	Instrument sharpening (theory)	
	e.	Infection control and sterilization	
8.	Rotary in	struments	Lecture Hours: 7
	a.	Identification and classification	Laboratory Hours: 10
		1) burs	•
		2) diamonds	
		3) stones	
		4) disks	
		5) wheels	
		6) finishing burs	
		7) finishing strips	
	Ъ.	Parts of rotary instruments	
		1) shank design	
		2) head	
		a) names	
		b) numbers	

amalgam properties trituration

2)

			c)	uses		
	c.	Hand	lpieces			
		1)	speeds			
		2)	uses			
		-,	a)	high speed		
			b)	slow speed		
		2	•			
		3.	-	mechanisms		
		4.	_	t handpiece		
			a)	parts		
			b)	attachments		
				1) contra angle		
				2) prophy angle		
			c)	maintenance		
		5.		peed contra angle		
			a)	parts		
			b)	chuck		
			,			
			c)	changing burs		
			d)	coolant		
			e)	washed field and dry field techniques		
			f)	maintenance		
	d.	Steril	ization an	d infection control		
		1.	running	g the water lines		
			a)	beginning of the day		
			b)	between patients		
		2.	handpi	ece sterilization - not disinfection		
		3.	mainte			
			a)	cleaning and flushing		
			b)	oiling		
			U)	omig		
Rinda	ental Sci	onco 1				
1.			f tha face	and and assists	T TT	_
1.		Landmarks of the face and oral cavity  a. Facial landmarks		Lecture Hours:	6	
	a.					
	b.	Intra-	oral landr	narks		
2.	Skull	_			Lecture Hours:	8
	<b>a</b> .		s of the cr			
	b.	Bone	s of the fa	ce		
	c.	Landı	marks of t	the skull		
3.	Head a	and nec	k anatomy	Lecture Hours:	10	
	a.	Overv	view of bo			
	b.		les of mas			
	C.		ary glands			
	d.		oh nodes			
	e.	Tong				
	f.			ve and it branch		
			immai ner i vessels	ve and it branch		
	g.					
		1)	arteries	;		
		2)	veins			

c)

D.

uses

		3)	capillaries		
4.		atholog		Lecture Hours:	10
	a.		gy of disease		
		1)	trauma		
		2)	extreme temperature		
		3)	chemical extremes		
		4)	biological agents		
	_	5)	radiation		
	b.		matory process		
		1)	cardinal symptoms		
		2)	systemic effects		
	c.		ptive terminology		
	d. Diseases of oral cavity				
		1)	dental caries		
		2)	inflammatory diseases		
•		3)	vitamin deficiencies		
		4)	developmental defects		
		5)	neoplasms		
			a) benign		
			b) malignant		
	<b>.</b>	6)	miscellaneous		
5.	6,			Lecture Hours:	10
	a		ar structure		
		1)	cell components		
		2)	mitosis		
	b.	Tissue			
		1)	epithelial		
		2)	connective		
		3)	muscle		
		4) T (1	nerves		
	C.		tissues		
		1)	enamel		
		2)	dentin		
		3)	pulp		
	d.	Oral n			
		1)	masticatory		
		2)	lining		
	_	3)	specialized		
	e.		ontium tissues		
		1)	gingiva		
		2)	periodontal ligament alveolar bone		
		3)			
6	Mathada -	4) ftooth a	cementum	T 4 TV	•
6.	Methods of tooth classification a. permanent			Lecture Hours:	2
	a.	-			
		1)	arch		
		2)	location		

					1 450 10	
		3)	function			
	b.	,	uous			
	٠,	1)	arch			
		2)	location			
		3)	function			
7. I	mportar	,	mary dentition		Lecture Hours:	2
	а.	Spee				
	b.	_	cation			
	c.	Spac	retention			
	d.	Over	all health			
8.	Toot	h surfac	es ·		Lecture Hours:	4
	a.	Ante	rior teeth			
	b.	Post	rior teeth			
9.	Line		t angles			
	a.		inology		Lecture Hours:	4
	Ъ.		nal surfaces			
10. C			on and preparation		Lecture Hours:	4
			nd location			
		Classes 1				
1.1			alls and angles			
11.		usion				_
	a.	_	es' classification		Lecture Hours:	2
	b.		oite, overjet, crossbite			
10	C.		oromandibular joint		T . TT	_
12. 13.			of tooth position		Lecture Hours:	
	Charting	sustanni	g tooth characteristics		Lecture Hours:	Z
14. (	a.	Type	of charts			
	а. b.		ods of numbering teeth			
	c.	Sym	_			
	d.	-	coding			
15.			of permanent dentition	n	Lecture Hours:	6
	a.		ior teeth	·•	Dectare Hours.	U
			Incisors			
		,		cs of incisors		
			,	ks of each type of incisor		
		2)	Cuspids (canines)			
			a) characteristic	cs of cuspids		
				ks of each type of cuspid		
	<b>b</b> .	Poste	rior teeth	-		
		1)	Bicuspids (pre-molar	rs)		
			a) characteristic	cs of bicuspids		
				ks of each type of bicuspid		
		2)	Molars			
			a) characteristic			
			b) key landmarl	ks of each type of molar		

Intro	duction to	Dental Assisting		
1.	History	Delital Assisting	Lecture Hours:	2
••	•	Dentistry	Lecture mours.	-
		Dental assisting		
2.		onal and licensing requirements		
		Dentist and specialty practices	Lecture Hours:	3
		Dental assistant; registered dental assistant; registered dental as		
		functions	Sistant extended	
	•	Registered dental hygienist; registered dental hygienist extended	d functions	
		Dental laboratory technician	a functions	
3.		onal associations and code of ethics		
٥.		Dentistry (American Dental Association)	Lecture Hours:	3
		Dental assisting(American Dental Assistants Association)	Lecture Hours.	J
		Dental hygiene(American Dental Hygienists Association)		
4.		ia State Registry and D.A.N.B. certification	Lecture Hours:	2
5.		California Dental Practice Act	Lecture Hours:	_
6.		tice issues	Lecture Hours:	
O.	-	Standard of care	Lecture Hours.	_
		Malpractice insurance		
		Common grounds for dental malpractice lawsuits		
7.		onal qualifications	Lecture Hours:	2
,.		Demeanor	Lecture mours.	4
		Appearance		
		Personal qualities		
8.	Human r	-	Lecture Hours:	0
0.		Personality types/self evaluation	Lecture Hours.	0
		Patient psychology		
		l) recognition of anxiety		
		2) anxiety control techniques		
		3) controlling patient behavior		
		interpersonal communications		
		l) verbal		
		2) nonverbal		
		3) dental terminology		
		principles of communication(communication cycle)		
		a) verbal message		
		b) listening		
		c) formulating response		
		d) problems in interpersonal communication		
		e) asking questions(open-ended/front-ended)		
		f) greeting patients		
	d. I	Human behavior		
		types of behavior		
		2) defense mechanisms		
		assistant's role in behavior modification		
		Special patients		
		become patients  i) disabled patients		
	,	aisavica patients		

- 2)
- patients with health problems
  patients with mental problems
  a) depression
  b) anxiety
  Down syndrome
  stroke patients
  cleft palate 3)
- 4) 5)
- 6)

# DA 1 - DENTAL ASSISTING 1 COURSE TITLE AND NUMBER

#### METHODS TO MEASURE STUDENT ACHIEVEMENT AND DETERMINE GRADES:

Students in this course will be graded in at least on of the following four categories. Please check those appropriate. A degree applicable course must have a minimum of one response in category 1, 2, or 3.

WRI	TING									
1.	Substantial writing assignments, including:									
	a.		<u>X</u>	b.	Term or other paper(s)					
	c.	Laboratory report(s)	<u>X</u>	d.	Written homework	_X				
	e.	Reading reports	_X_							
	f.	Other(specify)				_				
	g.	Substantial writing as	signments in	n this degree	applicable course are inapprop	priate because				
	The course is primarily computational in nature.									
		X The c $X$ Other	ourse prima	rily involves	s skill demonstrations or proble	em solving.				
		_X Other								
PRO	BLEM :	SOLVING								
2.	Computational or non-computational problem-solving demonstrations, including:									
	a.	Exam(s)	<u>X</u>	b.	Quizzes	<u>X</u>				
	c.	Homework problems	<u>X</u>	d.	Laboratory reports	<u>X</u>				
	e.	Field work		f.	Other (specify)					
j										
<b>√</b> 3.	SKII	LL demonstrations, includ	_							
	a.	Class performance(s)	<u>X</u>	Ъ.	Field work					
	c.	Performance exam(s)	<u>X</u>	d.	Other(specify)					
						<del></del>				
4.	OBJECTIVE examinations, including:									
	a.	Multiple choice	<u>X</u>	b.	True/False X					
	c.	Matching items	<u>X</u>	d.	Completion X					
	e.	Other(specify) Short I	Essay							

Description/Explanation: Based on the categories checked, it is the recommendation of the department that the instructor's grading methods fall within the following departmental guidelines; however, the final method of grading is still at the discretion of the individual instructor.

If several methods to measure student achievement are used, indicate here the approximate weight or percentage each has in determining student final grades.

90-100% - A, 80-89% - B, 70-79% - C, 60-69% - D, 59% & below - F

Each assignment and examination is assigned a points value. The student's grade is based on points earned =% points possible

## DA 1 - DENTAL ASSISTING 1 COURSE TITLE AND NUMBER

#### SKILL LEVELS:

For degree applicable courses, describe or specify the level of learning skills and vocabulary and critical thinking skills.

Link thinking skills to specific course content and objectives.

## A. Radiology 1

- 1. Relate information from lecture and reading assignments to evaluate the relationship between the x-ray unit variable controls and the effects on the diagnostic quality of the film.
- 2. Demonstrate an understanding of the concepts of radiation safety by establishing an acceptable protocol for patient and operator safety.
- 3. Utilize critical thinking skills in the selection of the proper exposure technique for manikins, and the assessment of the finished films for diagnostic quality.
- 4. Assemble the armamentarium required for the completion of each assigned task.
- 5. Complete a minimum of one full mouth set of x-rays and one bitewing survey on a patient with a score of 75% or better.

#### B. Chairside Assisting 1

- 1. Demonstrate critical thinking by transferring didactic information to experiment and preclinical setting and ultimately to selected clinical situations.
- 2. Practice established safety protocols and make rapid but appropriate technique modifications when patient or operator safety is compromised
- 3. Assemble materials and armamentaria required to perform pre-clinical and clinical procedures.
- 4. Evaluate assigned projects by comparing results with expected outcomes.
- 5. Identify errors and make appropriate modifications in planning, manipulation and/or clinical techniques required to perform projects that meet the established criteria.
- 6. Complete minimum of two evaluations of each project with a score of 75% or better.

## C. Operative Instruments and Materials

- 1. Transfer didactic information to experiment and pre-clinical situations.
- 2. Evaluate personal performance and make appropriate adjustments in procedural technique to insure the desired outcome.
- 3. Practice established safety protocols while performing experiment and pre-clinical procedures.
- 4. Assemble materials and armamentaria required to perform assigned experiment and preclinical procedures.
- 5. Demonstrate established manipulative technique and application of materials.
- 6. Identify the influence manipulative technique has on the application of materials.
- 7. Utilize critical thinking to synthesize past knowledge and skills with new concepts and situations.

8. Complete minimum of three evaluations of each project with a score of 75% or better.

## D. Biodental Science 1

- 1. Utilize inductive and deductive reasoning in the identification of dentition and patterns of occlusion.
- 2. Demonstrate an understanding of biodental sciences by utilizing appropriate terminology.
- 3. Demonstrate the transfer of knowledge of charting symbols and color coding to each new charting assignment.

# E. Introduction to Dental Assisting

- 1. Select and utilize appropriate problem-solving techniques in handling patient inquiries.
- 2. Recognize and evaluate normal vs. abnormal patient behaviors.
- 3. Utilize appropriate terminology.
- 4. Demonstrate human relations skills required for effective patient management.
- 5. Transfer didactic information to clinical settings and patient management situations.
- 6. Demonstrate personal knowledge of legal duties and ethical responsibilities when in clinical settings.

# DA 1 - DENTAL ASSISTING 1 COURSE NAME AND NUMBER

# EDUCATIONAL MATERIALS:

For degree applicable courses, the adopted texts, as listed in the college bookstore, or instructor-prepared materials have been certified to contain college-level materials.

Validation Language Level (check where applicable):	College-level criteria	College-level criteria met		
	Yes	No		
Textbook	<u>X</u>			
Reference materials				
Instructor-prepared materials	teritoria de la compansa de la comp			
Audiovisual materials				
Indicate method of evaluation:				
Used readability formula (grade level 10 or higher)				
Text is used in a college-level course				
Used grading provided by publisher				
Other: (please explain; relate to skill levels, above)				
i de la companya de				
Computational Level (Eligible for Math 1 level or higher)	N/A			
(Where applicable)		_		
Content				
Breadth of ideas covered clearly meets college level				
learning objectives of this course	<u>X</u>			
Presentation of content and/or exercises/projects:				
Requires a variety of problem-solving strategies				
including inductive and deductive reasoning.	<u>X</u>			
Requires independent thought and study	<u>X</u>			
Applies transferring knowledge and skills appropriately				
and efficiently to new situations or problems.	<u>X</u> *			
	<del></del>			