ILLINOIS VALLEY COMMUNITY COLLEGE

COURSE OUTLINE

DIVISION: Workforce Development

COURSE: DLA 1202 Supervised Dental Assisting Practice

Date: Spring 2020

Credit Hours: 1.5

Prerequisite(s): Successful completion of all first semester DLA courses and enrollment in, or successful completion of second semester DLA courses.

Delivery Method:		
	☒ **Lecture**	**0.5 Contact Hours (1 contact = 1 credit hour)**
	☐ **Seminar**	**0 Contact Hours (1 contact = 1 credit hour)**
	☐ **Lab**	**0 Contact Hours (2-3 contact = 1 credit hour)**
	☒ **Clinical**	**3 Contact Hours (3 contact = 1 credit hour)**
	☐ **Online**	
	☐ **Blended**	

Offered: ☐ **Fall** ☒ **Spring** ☐ **Summer**

CATALOG DESCRIPTION:
This course provides the student with actual clinical experience in four-handed, sit-down dentistry. Through supervised clinical practice in our on campus clinic an opportunity for developing competence and confidence in the utilization of dental assisting knowledge and skills will be provided to the student. Competence in expanded functions allowed in Illinois will also be demonstrated by the student.

GENERAL EDUCATION GOALS ADDRESSED

[See last page for Course Competency/Assessment Methods Matrix.]

Upon completion of the course, the student will be able:

[Choose up to three goals that will be formally assessed in this course.]

☒ To apply analytical and problem solving skills to personal, social, and professional issues and situations.
☒ To communicate successfully, both orally and in writing, to a variety of audiences.
☐ To construct a critical awareness of and appreciate diversity.
☐ To understand and use technology effectively and to understand its impact on the individual and society.
☐ To develop interpersonal capacity.
☐ To recognize what it means to act ethically and responsibly as an individual and as a member of society.
☐ To recognize what it means to develop and maintain a healthy lifestyle in terms of mind, body, and spirit.
☐ To connect learning to life.

EXPECTED LEARNING OUTCOMES AND RELATED COMPETENCIES:

[Outcomes related to course specific goals. See last page for more information.]

Upon completion of the course, the student will be able to:

1. Demonstrate a basic understanding of asepsis as it relates to dental instruments, procedures, and operatory equipment and surfaces.
   1.1. Discuss the term “chain of asepsis” and the importance of using standard precautions beginning with the steps and performance of a proper hand washing technique
   1.2. Describe and demonstrate the method for donning and removing barrier attire.
   1.3. Explain the importance and demonstrate the use of the ultrasonic cleaner.
   1.4. Demonstrate the procedure for preparing and using the autoclave, Statim, and Chemiclave.
   1.5. Discuss and demonstrate methods for clean-up and disposal of wastes, including the handling of sharps and disposal of infectious wastes.
   1.6. Demonstrate the procedure for disinfection of heat liable plastics and instruments.
   1.7. Demonstrate proper handling and storage of disinfected and sterile instruments.
2. Demonstrate a basic understanding of the procedures necessary to prepare the operatory and tray set-up for patient treatment.
   2.1. Identify the different types and kinds of hand and rotary instruments and explain the function of each.
   2.2. Assemble the proper tray set-up for an oral exam, prophylaxis, fluoride treatment, rubber dam, amalgam, and composite restoration.
   2.3. Prepare the operatory with proper barriers and equipment for an oral exam, prophylaxis, fluoride treatment, rubber dam, amalgam, and composite restoration.
3. Demonstrate a basic understanding and skills necessary to assist the dentist with common dental procedures.
   3.1. Discuss and demonstrate the methods for dental charting of existing conditions, using both anatomical and geometrical charts.

3.2. Demonstrate various methods of passing and transferring hand instruments, including pen, palm, and palm-thumb grasp.
3.3. Demonstrate the proper procedures for preparing, positioning, and dismissing the patient for dental treatment.
3.4. Demonstrate correct methods for rinsing and evacuating oral fluids during dental procedures.
3.5. Demonstrate the correct method for preparation, delivery, reception, and care of a local anesthetic syringe and materials.
3.6. Demonstrate the proper application of topical anesthetic.
3.7. Demonstrate the proper method of mixing and clean-up of various cements and liners used during amalgam and composite procedures.
3.8. Explain the purpose of the Tofflemire matrix retainer and demonstrate how to choose the proper bands and wedges, prepare the retainer, and supply all materials necessary for the placement of a matrix and retainer.
3.9. Demonstrate the proper procedure for application and removal of rubber dam on a patient in conjunction with a restorative procedure.
3.10. Assist the operator in the performance of a dental prophylaxis.
3.11. Demonstrate the proper procedure for application of topical fluoride.
3.12. Expose, process, and mount bitewing and periapical radiographs.
3.13. Describe and demonstrate methods and procedures for brushing and flossing for the dental patient.
3.14. Assist the operator with amalgam and composite restoration procedures.
3.15. Provide appropriate post-operative instructions to the patient following dental treatment.

4. Demonstrate a basic understanding of medical emergencies and their management in the dental office.
   4.1. Demonstrate procedures for measuring and recording vital signs.
   4.2. Outline and perform the steps in one- and two-person CPR rescue methods.
   4.3. Identify medical conditions or health changes that may affect a patient's dental treatment.
   4.4. Describe the appropriate emergency equipment for a dental office.
   4.5. Describe the chain of command in a dental emergency.
   4.6. Explain and demonstrate the management of common medical emergencies.
5. Demonstrate skills necessary for performing expanded functions allowable under Illinois law.
   5.1. Perform coronal polishing.
   5.2. Application of pit and fissure sealants.
   5.3. Monitor the administration of nitrous oxide gas and alert the dentist to any adverse reactions.

MAPPING LEARNING OUTCOMES TO GENERAL EDUCATION GOALS

[For each of the goals selected above, indicate which outcomes align with the goal.]

Goals	Outcomes
First Goal	
To apply analytical and problem solving skills to personal, social, and professional issues and situations.	4.1,4.2, 4.3, 4.4, 4.5, 4.6
Second Goal	
To communicate successfully, both orally and in writing, to a variety of audiences.	3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10, 3.11, 3.12, 3.13, 3.14, 3.15, 4.5, 4.6

COURSE TOPICS AND CONTENT REQUIREMENTS:

I. Asepsis
   a. Barrier attire
   b. Ultrasonic cleansing of instruments
   c. Heat sterilization procedures
   d. Chemical disinfection procedures
   e. Proper storage and handling of sterile or disinfected instruments
   f. Asepsis during dental procedures

II. Preparation for dental procedure
   a. Tray set-ups
   b. Operatory preparation
   c. Equipment and instrument preparation

III. Dental procedure
   a. Positioning of the patient, assistant, and operator
   b. Assisting with dental procedures
   c. Oral examination
   d. Prophylaxis
   e. Composite restoration
   f. Amalgam restoration
   g. Post-operative instructions
   h. Oral hygiene instruction
   i. Dismissal of the patient

IV. Medical emergencies
   a. Vital signs
   b. Cardio-pulmonary resuscitation
   c. Emergency equipment
   d. Chain of command
   e. Emergency management
      i. Syncope
      ii. Hyperventilation
      iii. Choking/airway obstruction

iv. Anaphylaxis
v. Diabetic emergencies
vi. Cardiac emergencies

V. Communication skills
   a. Team members
   b. Patient
      i. Verbal
      ii. Non-verbal
      iii. Post op instructions
      iv. Oral Hygiene instructions

VI. Expanded Functions
   a. Coronal polishing
   b. Fluoride placement
   c. Pit and fissure sealants
   d. Monitoring of nitrous oxide

INSTRUCTIONAL METHODS:

- Lecture
- Demonstration
- Class discussion
- Computers
- Clinical application of skills by the student
- Clinical observation of dental procedures by the student
- Role-playing situations
- Textbooks
- Blackboard
- DentalCare.com
- Eaglesoft Software
- Clinical instruction by dentist or other dental professional
- Dental Conventions
- Dental Office Observations

INSTRUCTIONAL MATERIALS:

- DentalCare.com
- All textbooks used in IVCC Dental Assisting Program
- Dental Equipment, instruments, miscellaneous supplies
- YouTube.com
- ADA.org

STUDENT REQUIREMENTS AND METHODS OF EVALUATION:

A= 90-100
B= 80-89
C= 70-79
D= 60-69
F= 0-59

- Students are required to wear the class uniform to all class meetings and follow the posted clinic rules and present themselves in a professional manner at all times. Points will be deducted for lack of professionalism as determined by the Professionalism Rubric
- Evaluations will be completed on the student's competence in performing the skills necessary for various dental procedures and expanded functions using provided rubrics as well as professionalism.
- A minimum grade of "C" is required to complete the course.
- The student must **actively assist** the operator with:
    - 4 oral exams
    - 4 prophylactic scalings
    - 3 amalgam restorations
    - 3 composite restorations
- The student must **successfully perform:**
    - 1 foam fluoride treatment
    - 1 fluoride varnish application
    - 4 coronal polishing on human subjects
    - 6 sealant placements on human subjects
    - 2 monitoring of nitrous oxide sedation
    - 4 bitewing radiographic series on human subjects
- The student must provide oral hygiene instruction to patients at their appointments in the dental lab. Students must also provide OHI to local school children and public agencies when and if requested.
- A minimum of one written report with audio tape is required.
- The student must role-play the management of common medical emergencies.
- The student will also take a written final exam at the discretion of the instructor.

FINAL GRADING

All of the following will be used as weighted to determine the student's final grade.

10% Final exam/project score
15% Clinical dentist evaluation of general skills
20% Dental assisting instructor evaluation of general skills
15% Clinical dentist evaluation of expanded function skills
20% Dental assisting instructor evaluation of expanded function skills
10% Medical emergencies role-play score/CE Medical Emergencies
10% Oral hygiene instruction project score

Course Competency/Assessment Methods Matrix

(Dept/# Course Name)	Assessment Options																															
For each competency/outcome place an "X" below the method of assessment to be used.	**Assessment of Student Learning**	Article Review	Case Studies	Group Projects	Lab Work	Oral Presentations	Pre-Post Tests	Quizzes	Written Exams	Artifact Self Reflection of Growth	Capstone Projects	Comprehensive Written Exit Exam	Course Embedded Questions	Multi-Media Projects	Observation	Writing Samples	Portfolio Evaluation	Real World Projects	Reflective Journals	Applied Application (skills) Test	Oral Exit Interviews	Accreditation Reviews/Reports	Advisory Council Feedback	Employer Surveys	Graduate Surveys	Internship/Practicum /Site Supervisor Evaluation	Licensing Exam	In Class Feedback	Simulation	Interview	Written Report	Assignment
Assessment Measures – Are direct or indirect as indicated. List competencies/outcomes below.	**Direct/ Indirect**	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	I	I	I	I	D	D		D				
Demonstrate a basic understanding of asepsis as it relates to dental instruments, procedures, and operatory equipment and surfaces.			X		X		X	X	X				X					X		X		X					X				X
Demonstrate a basic understanding of the procedures necessary to prepare the operatory and tray set-up for patient treatment.			X		X			X	X				X					X		X		X					X				X
Demonstrate a basic understanding and skills necessary to assist the dentist with common dental procedures.			X		X			X	X				X					X		X		X					X				X

Demonstrate a basic understanding of medical emergencies and their management in the dental office.			X		X		X	X	X				X					X		X		X						X				X
Demonstrate skills necessary for performing expanded functions allowable under Illinois law.		X	X		X			X	X				X					X		X		X						X				X