



COURSE IMPLEMENTATION DATE: January 2007
 COURSE REVISED IMPLEMENTATION DATE: January 2011
 COURSE TO BE REVIEWED: December 2016
(six years after UPAC approval) *(month, year)*

OFFICIAL UNDERGRADUATE COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.
 Shaded headings are subject to change at the discretion of the department – see course syllabus available from instructor

DHYG 162	Dental Hygiene	4
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS
Clinical Theory and Practice III		
COURSE DESCRIPTIVE TITLE		

CALENDAR DESCRIPTION:

This course is a continuation of DHYG 160 and DHYG 161. All phases of the dental hygiene process are further developed as students gain more experience in client care. Students begin to demonstrate competence in selected procedures and additional related skills are practiced. This clinical course utilizes the Human Needs Model to guide the dental hygiene process of care.

PREREQUISITES: DHYG 161, DHYG 125
 COREQUISITES: DHYG 126, DYHG 128, DHYG 190
 PRE or COREQUISITES: _____

SYNONYMOUS COURSE(S):

- (a) Replaces: _____
- (b) Cross-listed with: _____
- (c) Cannot take: _____ for further credit.

SERVICE COURSE TO: *(department/program)*

TOTAL HOURS PER TERM: 105

STRUCTURE OF HOURS:

Lectures:	<u>28</u>	Hrs
Seminar:		Hrs
Laboratory:	<u>77</u>	Hrs
Field experience:		Hrs
Student directed learning:		Hrs
Other (specify):		Hrs

TRAINING DAY-BASED INSTRUCTION:

Length of course: _____
 Hours per day: _____

OTHER:

Maximum enrolment: 16
 Expected frequency of course offerings: annually
(every semester, annually, every other year, etc.)

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only) Yes No
 WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department) Yes No
 TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE: Yes No

Course designer(s): <u>Shauna Warner, Leta Zaleski</u>	
Department Head: <u>Diane Reed</u>	Date approved: <u>October 2010</u>
Supporting area consultation (Pre-UPAC)	Date of meeting: <u>October 29, 2010</u>
Curriculum Committee chair: _____	Date approved: <u>October 2010</u>
Dean/Associate VP: <u>Rosetta Khalideen</u>	Date approved: <u>December 2010</u>
Undergraduate Program Advisory Committee (UPAC) approval	Date of meeting: <u>December 17, 2010</u>

LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

1. Function as a professional dental hygienist
2. Manage the dental hygiene practice environment ensuring safe and efficient delivery of care.
3. Use clear and accurate written, oral and visual communication with peers, clients, staff faculty and select members of the health care team.
4. Work effectively as a member of the dental team (peers, staff, faculty and select members of the healthcare team) to provide oral health care.
5. Use psychomotor skills in a safe, atraumatic and effective manner in the provision of dental hygiene care.
6. Integrate theoretical knowledge and critical thinking skills in the provision of dental hygiene care.
7. Provide dental hygiene care by incorporating assessment, diagnosis, planning, implementation and evaluation into practice.

METHODS: *(Guest lecturers, presentations, online instruction, field trips, etc.)*

Lecture, integration seminars, demonstrations, coaching sessions, laboratory and practical clinical exercises (students will work on peers and clients).

METHODS OF OBTAINING PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Examination(s) Portfolio assessment Interview(s) Other (specify):

PLAR cannot be awarded for this course for the following reason(s):

TEXTBOOKS, REFERENCES, MATERIALS: *[Textbook selection varies by instructor. Examples for this course might be:]*

Darby, M. L., & Walsh, M. (2009). Dental hygiene theory and practice (3rd ed.). Philadelphia: W. B. Saunders Company.
Nield-Gehrig, J. (2007). Fundamentals of periodontal instrumentation (6th ed.). St. Louis: Lippincot, Williams, & Wilkins.
Wilkins, E., & Wyche, C. (2008). Clinical practice of the dental hygienist (10th ed.). St. Louis: Lippincott Williams & Wilkins.
UFV Dental Hygiene Clinic Manual.

SUPPLIES / MATERIALS:

Kilgore International Dental Study Model.
UFV Year 2 Instrument Kit,
Clinical Scrubs, 3 Lab Coats, Duty Shoes, Safety Glasses, Loupes

STUDENT EVALUATION: *[An example of student evaluation for this course might be:]*

Assessment will be directly linked to the learning outcomes listed in the course content of the course outline.

There are two components to student assessment:

- Didactic evaluation
- Clinical evaluation

Both a grade of at least 70% in the didactic component and an A or B standard in the clinical component is required to pass this course. The final grade for this course will appear on the student's transcript as Credit (CR) or No Credit (NCR).

Didactic Evaluation:

Quizzes (5)	25%
Medical Synopsis Assignment	20%
Clinical Progress Reflections	10%
Final Exam	45%

Clinical Evaluation:

Evaluation in the clinical component is competency based, using performance criteria guidelines. Students will be evaluated and receive feedback (self, peer, instructor, coaching, and final) in clinical sessions. There are three levels at which students may be evaluated:

- A Standards met
- B Acceptable but improvable
- C Standards not met

Specific clinical requirements which must be met are:

1. Satisfactory completion of the following self, peer, coaching, and competency evaluations by their due dates:
 - Impressions
 - Study Models
 - Ultrasonic Debridement (Process)
 - Manual Debridement
 - Expose Radiographs (client)
 - Process and Mount Radiographs (client)
 - Intraoral photography
2. Satisfactory completion of a minimum of three clients in this semester with a minimum total of seven for the first year. All clients must be approved by an instructor, prior to or during the assessment phase of dental hygiene care.
3. Satisfactory completion of all radiography requirements as outlined at the beginning of the course.
4. Satisfactory completion of a summative clinical evaluation.
5. Refer to:
 - DHYG 162 Clinical Evaluation Guidelines in the Clinic Manual.
 - Student Evaluation in the Dental Hygiene Program Manual.

COURSE CONTENT: *[Course content varies by instructor. An example of course content might be:]*

As a continuation of DHYG 160 and DHYG 161 the student will be able to:

1. Function as a professional dental hygienist

1.1 Demonstrate professional behaviour

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161 with occasional instructor guidance.

1.2 Demonstrate responsibility and accountability for own actions

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161 with occasional instructor guidance.

1.3 Critically reflect (self evaluate) own knowledge, values and skills related to the practice of dental hygiene with occasional instructor assistance.

- Demonstrate increasing ability to critically reflect on skills, knowledge and practice learned in DHYG 160 and DHYG 161.

2. Manage the dental hygiene practice environment ensuring safe and efficient delivery of care.

a. Accident/injury prevention

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- Discuss precautions, hazards and safety features for procedures introduced this semester.

b. Operation and maintenance of equipment

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- Describe the maintenance and operation of equipment introduced this semester.

c. Infection control

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- Discuss appropriate infection control measures for all procedures introduced this semester.

d. Positioning and comfort

- Continue to demonstrate skill, knowledge, attitudes learned in DHYG 160 and DHYG 161.
- Discuss appropriate client and operator positioning for power driven instruments.

e. Armamentarium assembly

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- Discuss appropriate armamentarium assembly for all procedures introduced this semester.

- f. Instrument sharpening
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - g. Emergency care
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Explain management of common medical emergencies.
 - h. Instrumentation Principles
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Discuss extra-oral fulcrums for safe clinical practice.
 - Discuss safety principles when using ultrasonic/power-driven instruments.
 - Discuss safety principles when using periodontal files.
 - i. Inventory control
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - j. Appointment scheduling
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - k. Accounts receivable
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - l. Continuing-care/maintenance system
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- 3. Use clear and accurate written, oral and visual communication with peers, clients, staff faculty and select members of the health care team.**
- a. Documentation
 - Continue to develop skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Discuss appropriate documentation for impressions, study models and dental images.
 - b. Interpersonal communication
 - Demonstrate increasing ability to utilize the knowledge, skills and attitudes learned in DHYG 160 and DHYG 161 with occasional instructor assistance.
- 4. Work effectively as a member of the dental team (peers, staff, faculty and select members of the healthcare team) to provide oral health care.**
- Demonstrate increasing ability to work as an effective team member using interpersonal skills, knowledge and attitudes learned in DHYG 160 and DHYG 161, with occasional instructor assistance.
- 5. Use psychomotor skills in a safe, atraumatic and effective manner in the provision of dental hygiene care.**

The student is expected to perform the following indicators with occasional instructor assistance:

- a. Accident/injury prevention
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Demonstrate appropriate precautions for all procedures introduced this semester.
- b. Operation and maintenance of equipment
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Operate and maintain equipment or instruments introduced this semester, following manufacturer's directions.
- c. Infection control
 - Continue to demonstrate appropriate infection control procedures independently during all phases of dental hygiene care, including those procedures introduced this semester.
- d. Positioning and comfort
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Demonstrate technique to improve access, vision, comfort and water control when using power drive instruments

- e. Armamentarium assembly
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Appropriately assemble armamentarium required in this semester, with instructor guidance.
- f. Emergency care
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Manage common medical emergencies in a simulated scenario.
- g. Assessments
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Successfully expose a full mouth series of radiographs with a minimum of 12 films in one hour on a client, following all protocols.
 - Expose occlusal and distal oblique dental radiographs and localization exercise with instructor assistance.
 - Assess the diagnostic acceptability of all films taken.
 - Demonstrate an appropriate method for obtaining impressions and interocclusal records on peers with instructor assistance.
 - Mix gypsum following manufacturer's directions, with instructor assistance.
 - Demonstrate the correct procedure for pouring impressions.
 - Demonstrate steps for trimming and finishing maxillary and mandibular study models.
 - Demonstrate care for camera system, retractors and mirrors.
 - Take dental photographs as needed with instructor assistance.
 - Demonstrate correct downloading and labelling of photos.
- h. Dental hygiene diagnosis
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- i. Dental hygiene care planning
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Incorporate procedures introduced this semester into the dental hygiene care plan.
- j. Instrumentation Principles
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161
 - Demonstrate the use of extra-oral fulcrums
 - Demonstrate principles of basic ultrasonic/power-driven instrumentation on peers
 - Demonstrate principles for correct use of periodontal files
- k. Debridement
 - Demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Follow the dental hygiene care plan for deposit removal.
 - Debride to clinical endpoint minimizing hard and soft tissue trauma, using manual instruments.
- l. Self-care
 - Demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Assist client with evaluation of self-care progress, review or modify aids and/or techniques as needed to help achieve client's self-care goals.
- m. Instrument sharpening
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161
- n. Inventory control
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161.
- o. Appointment scheduling
 - Continue to demonstrate the skills, knowledge and attitudes learned in DHYG 161.
- p. Accounts receivable
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161.
- q. Continuing care
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161.
- r. Polishing
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161.

- s. Fluorides
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161.
- t. Dental prostheses
 - Continue to demonstrate skill, knowledge and attitudes learned in DHYG 161.
- u. Desensitizing
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161.
- v. Evaluation
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161.

6. Integrate theoretical knowledge and critical thinking skills in the provision of dental hygiene care.

- 6.1 Demonstrate critical thinking skills and apply the problem-solving process in the provision of dental hygiene care with instructor assistance.
 - Demonstrate an increasing ability to apply critical thinking skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- 6.2 Integrate theoretical and clinical knowledge in the provision of dental hygiene care with occasional instructor assistance.
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
 - Demonstrate an increasing ability to use evidence-based principles to guide clinically related decisions.

7. Provide dental hygiene care by incorporating assessment, diagnosis, planning, implementation and evaluation into practice.

7.1 Assessment:

- a. Health history/dental history
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- b. Vital signs
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- c. General appearance/head and neck assessment
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG161.
- d. Intra-oral soft tissue assessment
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG161.
- e. Periodontal assessment
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG161.
- f. Gingival assessment
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG161.
- g. Deposit assessment
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG161.
 - Discuss more advanced aspects of biofilm.
 - Discuss the effects of chemotherapeutics on biofilm.
 - Describe the relationship of calculus to periodontal pathologies.
- h. Dental assessment.
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG161.
- i. Occlusal assessment
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG161.
- j. Dental radiographs
 - Continue to demonstrate skills, knowledge and attitudes learned in DHYG 130 and DHYG161.
- k. Impressions
 - Discuss material, supplies, procedures and tissue reaction when taking impressions and wax bites.
 - Explain conditions that modify or contraindicate obtaining impressions, including precautions.

- Describe methods for obtaining impressions and interocclusal records.
- Discuss educating the client on the need for and process of impression and interocclusal records.
- Discuss preparation of impressions and interocclusal records for pouring in the laboratory.

i. Study models

- Explain the relationship between alginate and study casts.
- Discuss materials, supplies and procedure for fabrication of study models.
- Describe the appropriate procedure for pouring impressions.
- Discuss trimming, labelling and storing of study models.
- Discuss using study models during dental and dental hygiene care.
- Discuss evaluation criteria for study models.

m. Dental imaging

- Describe file management and the protocol for transferring images.
- Describe types of dental photographs including the purpose and characteristics of common views.

7.2 Dental hygiene diagnosis

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.

7.3 Dental hygiene care planning

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- Discuss incorporating procedures introduced this semester into the dental hygiene care plan.

7.4 Implementation

a. Instrumentation principles

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- Discuss the use of extra-oral fulcrums.
- Discuss principles of ultrasonic/power-driven instrumentation, including adaptation, angulation, insertion, activation, and control of water.
- Discuss frequency, amplitude, tuning, stroke, motion, cavitation, acoustics, acoustic microstreaming and acoustic turbulence in relation to power-driven instruments
- Discuss sonic, ultrasonic, magnetorestrictive and piezoelectric power instruments.
- Describe adaptation, angulation, insertion and activation of periodontal files.

b. Debridement

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161
- Recall knowledge from DHYG 125.

c. Polishing

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161.

d. Fluorides

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161.

e. Dental prostheses

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161.

f. Desensitizing

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 161.

g. Dental radiographs

- Recall knowledge about radiographic theory and techniques from DHYG 130 and DHYG 161.

7.5 Evaluation

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.

8. Integrate health promotion strategies into the dental hygiene process of care.

a. Self-care

- Continue to demonstrate skills, knowledge and attitudes learned in DHYG 160 and DHYG 161.
- Discuss how to help client assess self-care progress, reviewing or modifying aids and/or techniques as needed to help achieve client's self-care goals.

PROGRAM OUTCOMES

The learning objectives reflect the specific content covered in DHYG 162. The UFV Dental Hygiene program outcomes serve as the foundation for the program curriculum. The curriculum in each UFV Dental Hygiene program course contributes to the student's progression towards achievement of the program outcomes. The following table references the specific program outcomes that form the basis for the DHYG 162 learning objectives and the course evaluation activities that measure the student achievement of the learning objectives.

Program Outcomes Addressed	DHYG 162 Learning Objectives	DHYG 162 Evaluation Activities
1. Function as a professional Dental Hygienist	1. Function as a professional Dental Hygienist 1.1 Demonstrate professional behaviour 1.2 Demonstrate responsibility and accountability for own actions 1.3 Critically reflect (self evaluate) own knowledge, values and skills related to the practice of dental hygiene with occasional instructor assistance	Weekly Progress Record Skills Competencies Professional Standards Incident Report Theory Exam/Quizzes Assignment Clinical Progress Reflection
1. Manage the dental hygiene practice environment.	2. Manage the dental hygiene environment ensuring safe and efficient delivery of care	Weekly Progress Record Chart Audit Assignment Skills Competencies Professional Standards Incident Report Theory Exam/Quizzes Clinical Progress Reflection
3. Use effective communications with clients, families and other members of the healthcare team.	3. Use clear and accurate written, oral and visual communication with peers, clients, staff, faculty and select members of the health care team	Weekly Progress Record Chart Audit Assignment Skills Competencies Theory Exam/Quizzes Clinical Progress Reflection
4. Work effectively as a member of a team to provide dental hygiene services.	4. Work effectively as a member of the dental team (peer, staff and faculty) to provide oral health care.	Weekly Progress Record Skills Competencies Professional Standards Incident Report Theory Exam/Quizzes Clinical Progress Reflection
5. Use psychomotor skills in a safe, atraumatic and effective manner in clinical dental hygiene practice	5. Use psychomotor skills in a safe, atraumatic and effective manner in the provision of dental hygiene care with occasional instructor assistance.	Weekly Progress Record Skills Competencies Professional Standards Incident Report Theory Exam/Quizzes Clinical Progress Reflection
6. Make decisions that reflect critical thinking based on systematic enquiry and effective problem-solving	6. Integrate theoretical knowledge and critical thinking skills in the provision of dental hygiene care 6.1 Demonstrate critical thinking skills and apply the problem-solving process in the provision of dental hygiene care with instructor assistance. 6.2 Integrate theoretical and clinical knowledge in the provision of dental hygiene care with occasional instructor assistance.	Weekly Progress Record Clinical Progress Reflection Skills Competencies Chart Audit Theory Exam/Quizzes Professional Standards Incident Report Assignment
7. Manage dental hygiene services by incorporating assessment, diagnosis, planning, implementation and evaluation into oral health initiatives	7. Provide dental hygiene care by incorporating assessment, diagnosis, planning, implementation and evaluation into practice 7.1 Assessment 7.2 Dental Hygiene Diagnosis 7.3 Dental Hygiene Care Planning 7.4 Implementation 7.5 Evaluation	Weekly Progress Record Clinical Progress Reflection Skills Competencies Theory Exam/Quizzes Chart Audit Assignment
8. Apply health promotion strategies that enable clients to optimize oral health	8. Integrate health promotion strategies into the dental hygiene process of care	Weekly Progress Record Theory Exam/Quizzes Clinical Progress Reflection