Course Prerequisites

None

Course Description

Classes of drugs and their uses, actions, interactions, side effects, contraindications, and systemic and oral manifestations with emphasis on dental applications. (2 sem hrs; 2 lec)

Learning Outcomes

Identify the uses, actions, and contraindications of drugs commonly taken by patients and recognizes systemic and oral manifestations associated with drug use.

Course Meeting Days and Times

Lecture: Monday 7:30 -8:30 a.m. In Room 170, WCAH
Wednesday 7:30 -8:30 a.m. In Room 170, WCAH

Course Director

Name: D. Jack Fong DDS, NMD, MAGD
Office Location: 3131 Bell Ave., Ste. 207
Office Phone: 353-8184
E-Mail Address: djfongdds@djfongdds.com
Office Hours: by Appointment

Required Course Textbooks


Reference Texts

1. Physicians’ Desk Reference 2006, (on Dr. Henderson’s desk)
2. Current Dental Hygiene Journals
Instructor Objectives for Course

To provide the dental hygiene student an understanding of drug groups, their mechanisms of action, dosage, indications of use, adverse effects, drug interactions and the oral side effects in the treatment of human disease processes and its relationship to dentistry and how to apply this knowledge in a clinical setting.

Upon completion of the course the student shall be able to:

1. Identify the appropriate reference book(s) needed to obtain a variety of information concerning drugs
2. Define general terms and explain the principles of pharmacology
3. Associate the names of selected individual drugs with appropriate drug groups
4. List and explain the major pharmacological effects associated with the drug group studied
5. Identify the major adverse reactions of the drug groups studied
6. Describe the major therapeutic uses for the drug group studied
7. List the treatment of a patient with a problem associated with drug administration including overdose, adverse reaction, allergy or idiosyncratic reaction
8. Describe the contraindications and/or precautions for the use of the drug groups studied
9. Explain a drug’s mechanism of action, when applicable
10. Recognize a drug’s interaction with other drugs, disease states, or foods
11. Compare and contrast an individual drug within one group with its members of with another drug group
12. Describe the management of dental patients when taking drug(s)
13. Compile a table of top drugs to include their mechanisms of action, dosage, indication of use, adverse effects, drug interactions, and oral side effects
14. Differentiate the terms phobia, fear, and anxiety.
15. Analyze patient responses to questions in the dental history designed to detect anxiety about treatment.
16. Identify the origin of a patient’s anxiety through questioning during the initial interview.
17. Identify and evaluate fear-provoking situations with a patient.
18. Recognize the signs and behaviors that indicate dental fear.
19. Evaluate the reliability of tools used to assess dental anxiety.
22. Use nonpharmacological strategies to promote patient relaxation.
23. Appreciate the history of nitrous oxide use and its association with the dental profession.
24. Identify the effects of nitrous oxide on pain, anxiety, and the body’s system.
25. Understand the properties of nitrous oxide.
26. Explain indications and relative contraindications for the use of nitrous oxide sedation.
27. Identify equipment associated with nitrous oxide sedation.
28. Describe the appropriate technique for nitrous oxide administration.
29. Recognize signs and symptoms of ideal sedation and oversedation.
30. Recognize appropriate recovery from nitrous oxide sedation.
31. Separate facts from fallacies associated with chronic exposure to nitrous oxide.
32. Describe methods for detection and assessment of trace levels of nitrous oxide in the dental setting.
33. Describe methods to minimize trace levels of nitrous oxide in the dental setting.

**Course SCANS Competencies**

**Foundation Competencies:**

1. **Basic Skills**

   Reading:
   Locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.

   Listening:
   Receive, attend to, interpret, and respond to verbal messages and other cues

   Speaking:
   Organize ideas and communicate orally

2. **Thinking Skills**

   Creative thinking:
   Generate new ideas.

   Decision making:
   Specify goals and constraints, generate alternatives, consider risks, and evaluate and choose the best alternative

   Visualize:
   Organize and process symbols, pictures, graphs, and objects and apply it when solving a problem.

   Reasoning:
   Discover a rule or principle underlying the relationship between two or more objects and apply it when solving a problem.

3. **Personal Skills**

   Responsibility:
   Exert a high level of effort and persevere toward goal attainment

   Self Esteem:
   Believe in one's own self-worth and maintain a positive view of oneself

   Sociability:
   Demonstrate understanding, friendliness, adaptability, empathy, and politeness in group settings

   Self Management:
Assess oneself accurately, set personal goals, monitor progress, and exhibit self control.

Integrity and Honesty: Choose ethical courses of action.

Workplace Competencies:

1. Resources
   A worker must identify, organize, plan, and allocate resources effectively.

2. Interpersonal Skills
   A worker must work with others effectively

3. Information
   A worker must be able to acquire and use information

4. Systems
   A worker must understand complex relationships

5. Technology
   A worker must be able to work with a variety of technologies

Students with Disabilities

Any student in this course who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the Office of disAbility Services (Student Service Center, Room 119, phone # 371-5436). As Soon As Possible.

Attendance Policy

“Regular attendance is necessary for satisfactory achievement. Therefore, it is the responsibility of the student to attend class.” Due to the tremendous amount of information contained in this course, the student who plans to succeed should also plan to attend all course sessions regularly and promptly. Without question, the instructor expects each student to be present at each session. Unfortunately, no one has ever developed a short cut which will replace hours of actual experience needed to master a new skill, therefore, you must be present to acquire the specific knowledge in this subject. You may have no more than 1 absence in this course without affecting your final grade. Beginning with the 2nd absence, one point will be deducted from your final grade, and one additional point deducted for each absence thereafter. It is the expectation of the instructor, for students to come to class prepared to participate in discussion and activities. Perfect attendance will add two points to your final grade average.

Tardiness Policy

You are expected to be present in the class at the time when it is scheduled to begin. If class has already begun and you arrive late or if you delay the start of a class, you will be considered late. Late arrivals will be counted as an absence. An absence will be counted after 5 minutes
have elapsed from the start of the class.

**Required Examinations**

The following criteria will be used to determine your grade

<table>
<thead>
<tr>
<th>Exam Type</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Major Exams</td>
<td>75%</td>
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<tr>
<td>Comprehensive Final</td>
<td>25%</td>
</tr>
</tbody>
</table>

The following grade scale applies throughout this course:

- **A** = 93 - 100%
- **B** = 83 - 92%
- **C** = 75 - 82%
- **F** = Below 75%

Note: A grade of "D" is not possible in this course.

**Make-up Policy**

If a student is absent on the day when a major examination is given, the student may make-up the missed work as follows:

1. It is the responsibility of the student to make arrangements with the instructor within 24 hours of returning from the absence to reschedule the examination.
2. The missed work must be made up within TWO Amarillo College school days where the day ends at 4:00 p.m.
3. The make-up work may earn a maximum of 80% of the original point value.

**Instructor Assistance**

All students are considered mature enough to seek assistance from the course instructor. If you have any questions concerning assignments, content, etc., or if a problem arises that warrants instructor help, please do not hesitate to schedule an appointment with me at your earliest convenience.

**Course Ethics**

Amarillo College also has standards that must be upheld. At Amarillo College, there are grave academic penalties for unethical conduct. The policy and penalty for such conduct is provided in the General Catalog as follows:

"A high standard of conduct is expected of all students. It is assumed that obedience to the law, respect for properly constituted authority, personal honor, integrity and common sense will guide the actions of each member of the college community both in and out of the classroom. The student code of conduct is published in the Student Rights and Responsibilities publication. Any student who fails to perform according to expected standards may be disciplined."

It can be concluded from this statement that cheating and other forms of unethical course conduct are absolutely forbidden by Amarillo College policy. To be more specific, in this course, **ANY** unethical conduct, is a cause for a final grade of **"F"** regardless of other grades earned to-date in the course.
In summary, a student should not risk his or her final grade in this course and any future enrollment privileges at Amarillo College as the result of the unethical conduct. **This policy will be strictly enforced.**

All students are considered mature enough to seek faculty assistance and to monitor their own progress in meeting course requirements. The following professionalism standards apply to this course:

1. Student is prompt to class.
2. Student is prepared for class sessions.
3. Student assumes responsibility for his/her own learning.
4. Student is concerned with excellence in learning rather than just meeting minimal criteria.
5. Student applies lecture material in the clinical setting.
6. Student maintains his/her composure, dealing with conflict in a constructive way.
7. Student exhibits an attitude of respect for classmates, faculty, and staff.
8. Students will not be disruptive or talk to each other during lectures, slide presentations, guest lectures, etc. Should this occur, the student will be asked to leave the classroom immediately.

**Students Rights and Responsibilities**

Amarillo College students should be familiar with the contents of *Amarillo College Student’s Rights and Responsibilities* pamphlet. Copies of the pamphlet are available free to students. These pamphlets are located in the Dean of Student Services Office, the Business Office, and the West Campus Division Office. It is the student’s responsibility to become familiar with the *Student’s Rights and Responsibilities* document.

The Amarillo College Student’s Rights and Responsibilities Publication can be viewed at [http://www.actx.edu/student/index.htm](http://www.actx.edu/student/index.htm)

**Electronic and Recording Devices**

No tape recordings of the lecture during classroom or lab instruction will be allowed.

**Academic Grievances**

A student who has a grievance concerning a course in which he or she is enrolled should make an appeal in the following order to the:

1. Instructor
2. Department chair
3. Division chair
4. Vice President / Dean of Instruction
5. College President
2006 Tentative Course Schedule:

### Pharmacology Lecture

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Chapter</th>
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<tbody>
<tr>
<td>Wednesday</td>
<td>January 18</td>
<td>Introduction &amp; 1</td>
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<tr>
<td>Monday</td>
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<td>Wednesday</td>
<td>January 25</td>
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<td>Wednesday</td>
<td>May 3</td>
<td>25 &amp; 26</td>
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<tr>
<td>Final week</td>
<td>May 10</td>
<td>Final Exam</td>
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</tbody>
</table>
DHYG 1235
Pharmacology for the Dental Hygienist

Verification of Course Policies

I, ____________________________, verify that faculty has reviewed the Pharmacology DHYG 1235, course syllabus with me and have also demonstrated to me how to access the course syllabi online at the following web address http://www.actx.edu/~dental_hyg/syllabi.htm I also understand that I may download and print the course syllabus if I choose to do so. I have read and understand the course and department policies contained in the syllabus as they have been explained to me. I agree to abide by the policies and course requirements documented in the syllabus.

___________________________________ on _________________________
Student Signature Date

Received and filed in student file.

___________________________________ on _________________________
Instructor Signature Date