Course Change Request

Indiana University

Check Appropriate Boxes: Undergraduate credit [ ] Graduate credit [ ] Professional credit [ ]

1. School/Division: College of Health and Human Services

2. Academic Subject Code: DHVC

3. Current Course Number: H242

4. Current Credit Hours: 1

5. Current Title: Introduction to Dentistry - Specialties

6. Effective Semester/Year for changes listed below: Fall, 2011

7. Instructor: D. Stuart

Type of Change Requested (Check appropriate boxes and indicate changes)

[ ] 8. Change course number to: __________________________ (must be cleared with University Enrollment Services)

[ ] 9. Current course title: Introduction to Dentistry - Specialties

Change to:

Recommended abbreviation (optional)

[ ] 10. Current credit hours fixed at: 1 or variable from: ______ to ______

Change to credit hours fixed at: ______ or variable from: ______ to ______

[ ] 11. Current lecture contact hours fixed at: ______ or variable from: ______ to ______

Change to lecture contact hours fixed at: ______ or variable from: ______ to ______

[ ] 12. Current non-lecture contact hours fixed at: ______ or variable from: ______ to ______

Change to non-lecture contact hours fixed at: ______ or variable from: ______ to ______

[ ] 13. Is this course currently graded with S-F (only) grades? Yes [ ] No [ ]

Change to S-F (only) grading? Yes [ ] No [ ]

[ ] 14. Does this course presently have variable title approval? Yes [ ] No [ ]

Is variable title approval being requested? Yes [ ] No [ ]

[ ] 15. Is this course being discontinued? For all campuses [ ] or for this campus only [ ]

[ ] 16. Current course description:

An overview of the specialties of dentistry with specific lectures on cavity classification and nomenclature. Instrument nomenclature, principles of cavity preparation, the space-maintenance concept, management of the child patient, use of the rubber dam in direct and indirect pulp therapy.

Change course description to (not to exceed 50 words): An overview of the specialties of dentistry with specific lectures on pediatric dentistry, orthodontics, periodontics, endodontics, and oral surgery.

[ ] 17. Justification for change:

Curriculum change in preparation for the proposed DDS degree.

(Use additional paper if necessary)

[ ] 18. Are the necessary reading materials currently available in the appropriate library?

[ ] 19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of this course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by: [Signature]
Date: 3/15/10

Department Chairman/Division Director

Approved by: [Signature]
Date: 5/25/10

Dean

Chancellor/Vice-President

Dean of Graduate School (when required)

University Enrollment Services

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.

UPS 725 University Enrollment Services Final-White; Chancellor/Vice-President-Blue; School/Division-Yellow; Department/Division-Pink; University Enrollment Services Advance-White
I. COURSE DESCRIPTION:

The course will provide the student with an overview of the various dental specialties and the role of the dental assistant as an essential part of each.

II. TEXTBOOKS:

Modern Dental Assisting;

Introduction to Dental Specialties Lectures & Suplemental PPT Presentations – Blackboard Vista;
III. **STRUCTURE:**

Lectures follow lecture notes and PowerPoint presentations/handouts located on Blackboard Vista, distribution of samples & DVD’s & Guest Speakers.

IV. **GRADING CRITERIA:**

6 - Exams
2 - Comprehensive Instrument Practicals (all dental specialty instruments)
5 - DVD/Guest Speaker Question & Answer Sheets

Introduction to Dentistry course grades will be assigned according to the following scale:

<table>
<thead>
<tr>
<th>PERCENTAGE</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 - 94</td>
<td>A</td>
</tr>
<tr>
<td>93 - 88</td>
<td>B</td>
</tr>
<tr>
<td>87 - 80</td>
<td>C</td>
</tr>
<tr>
<td>79 - 75</td>
<td>D</td>
</tr>
</tbody>
</table>

Below 75 = F and dismissal from the Dental Assisting Program.

V. **COURSE REQUIREMENTS:**

1. **All examinations and quizzes must be taken before the next class meets. Failure to do so will result in the student receiving a "0" for the exam or quiz.**

2. If a student must miss a lecture, they must give Prof. Stuart notice PRIOR TO the course session to be missed. Any missed lecture notes are the responsibility of the student to acquire from another student.

3. If missed, the instrument practical cannot be made up. You will receive a "0" on the instrument practical.
4. Due to the limited time in class to review instruments for the Instrument Practical, it suggested that you schedule time on your own to review instruments.

5. Because attending lecture is so important, recorded point deductions will be made for the following:

- 2pts - tardiness (doors are closed)
- 5pts - absences
- 2pts - leaving lecture early

6. Unprofessional behavior can be defined as, but not limited to: talking in class; sleeping in class; being disrespectful to peers, faculty or staff in front of clinical patients or in didactic/lab settings; speaking inappropriately; showing anger by throwing objects, etc....these are just a few examples that are inappropriate in a professional health sciences program.

Unprofessional behavior incidents are deducted from your final grade as a percentage. Each incident deducts 1% from your final grade. Final grades will be determined after extra credit is applied and then the number of percentage deductions.

VI. OTHER NOTES:

1. Academic Dishonesty Statement:
Professional, mature conduct is expected of all students. ANY form of academic dishonesty is in direct conflict with professionalism and will result in an "F". Please see the IPFW Student Handbook for the university policy regarding academic misconduct.

2. Disabilities Statement:
If you have a disability and need assistance, special arrangements can be made to accommodate most needs. Contact the Director of Services for Students with
Disabilities (Walb, room 113, telephone number 481-6658), as soon as possible to work out the details. Once the Director has provided you with a letter attesting to your needs for modification, bring the letter to me. For more information, please visit the web site for SSD at http://www.ipfw.edu/ssp/
INTRODUCTION TO DENTAL SPECIALTIES: TENTATIVE AGENDA
SPRING 2011
Fridays 8:30-10:30

Jan 14th
Course Orientation;
Endodontics;
MDA, chapter 54

Jan 21st
Endodontics Cont.
Introduction to Endodontic Instruments
DVD on Endodontics -
Due: DVD Question & Answer Sheet

Jan 28th
QUIZ #1 Endodontics
Orthodontics; MDA, Chapter 60

Feb 4th
Orthodontics Cont.

Feb 11th
QUIZ #2: Orthodontics
Introduction to Orthodontic Instruments
Guest Speaker "Update on Orthodontic Technology"
Due: Guest Speaker Question & Answer" Sheet
INTRODUCTION TO DENTISTRY: TENTATIVE AGENDA
SPRING 2011

Feb 18th  Periodontics; MDA Chapter 55

Feb 25th  Periodontics Cont.
          DVD on Periodontic Procedure
          Due: DVD Question & Answer Sheet

March 4th  QUIZ #3 Periodontics
          Periodontal Dressing – Wear Lab
          Jacket & Bring Typodont & Goggles
          to Class
          Introduction to Periodontic
          Instruments

March 11th  Spring Break – Class Suspended!!!!!

March 18th  Pediatric Dentistry; MDA,
            Chapter 57

March 25th  Instrument Practical#1;
            Endodontic and Orthodontic
            Instruments
            Pediatric Dentistry Cont.

April 1st  Quiz #4 Pediatric Dentistry
          Oral & Maxillofacial Surgery;
          MDA, chapter 56
INTRODUCTION TO DENTISTRY: TENTATIVE AGENDA
SPRING 2011

April 8th
Oral & Maxillofacial Surgery Cont.
DVD on Oral Surgery
Due: DVD Question & Answer Sheet

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Apr 15th
Quiz #5 Oral & Maxillofacial Surgery
Introduction to Oral Surgery Instruments
Dental Implants
MDA, chapter 53

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April 22nd
Dental Implants Cont.
Guest Speaker “Dental Implants Update”
Due: Guest Speaker Question & Answer Sheet

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April 29th
Dead Week - Review Instruments for Final Instrument Practical

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May 2nd - 6th
Finals Week - Instrument Practical #2; Periodontal and Oral & Maxillofacial Surgery Instruments
At the end of each unit of study, the student is expected to:

I. **Endodontics:**

   *Introduction -*

   1. Define or identify the following terms; endodontics, necrotic, vital, irreversible pulpitis, reversible pulpitis.
   3. Recognize symptoms of irreversible pulpitis.
   4. List reasons for a tooth not to receive endodontic treatment.
   5. Recognize symptoms of reversible pulpitis.

   *Diagnosis -*

   6. Define or identify the following terms; refereed pain and control tooth.
   7. Administer a subjective examination which would include:

      - reviewing patients medical and dental history
      - listing and writing down patients description of their symptoms

   8. Describe what steps are involved when administering an objective examination which would include:

      - extent of decay?
      - periodontal condition?
      - restorations?
      - initial radiograph
      - vitality testing
Types of Pulp Therapy -

9. Define or identify the following therapies:
   - indirect pulp capping
   - direct pulp capping
   - pulpotomy
   - pulpectomy

Treatment (pulpectomy - root canal therapy) -

10. Describe the steps involved in root canal therapy including:
    - anesthesia
    - isolation of tooth
    - accessing canal(s)
    - determining estimated working length
    - initial debridement of canal(s)
    - determining actual working length
    - final cleaning & shaping of canal(s)
    - filling the canal(s)
    - temporary restoration placement
    - completion film
    - final tooth restoration

11. Identify instrumentation used in the various steps of root canal therapy and their purpose.
12. Identify endodontic files by number and color.
13. Correctly note working lengths of endodontic files in patient files.
14. Explain alternative systems for determining working lengths of endodontic files.
14. Describe alternate systems for placing gutta percha.

Surgical Endodontics -

15. Identify alternative surgical endodontic procedures including:
    - apicoectomy
    - apical curettage
    - retrograde restoration
    - root amputation
    - root hemisection
II. Pediatrics:

1. Define the specialty of pediatric dentistry.

2. Be able to describe the eight (8) major areas of dentistry the pediatric dentist provides to his/her patients in a private practice.

3. Be able to articulate the five (5) data areas identified in completing a comprehensive new patient examination for a child dental patient.

4. Be able to describe the major procedures in placing dental sealants.

5. Be able to describe the major procedures in assisting the pediatric dentist in placing a stainless steel crown.

6. Be able to describe the differences in a indirect pulp cap, direct pulp cap and pulpotomy.

7. Be able to describe the clinical presentation in the following areas of dental trauma: Ellis Class I, II, III and IV types of dental trauma.

8. Be able to describe the clinical indications for the following common dental space maintenance appliances: Band and loop, Lingual Arch and Nance appliance.

III. Periodontics:

1. Define the terms periodontal disease, gingivitis, periodontal pocket, periodontics.

2. Identify soft and hard tissue anatomy

3. List the causes of periodontal disease.

Types of Periodontal Disease -

4. Recognize the types of periodontal diseases and their characteristics.

5. Recognize the case types of periodontal disease (I-V, least severe to most severe) and their characteristics.

6. Identify the types of gingivitis and their characteristics.
7. Identify the types of periodontitis (least severe to most severe) and their characteristics.

**Diagnosis -**

8. List the steps in periodontal diagnosis including:
   - medical & dental history evaluation
   - dental examination
   - oral tissue examination
   - periodontal examination

9. List the "Dental Mobility Scale".
10. Recognize and describe the difference between supragingival and subgingival calculus.
11. Explain how to measure periodontal pockets (periodontal probing).
12. Understand the process of periodontal charting.
13. Identify the areas around the teeth that are probed and charted.
14. Interpret periodontal measurements (slight to severe, normal and abnormal pocketing).
15. Identify radiographs that are used to diagnose periodontal disease.

**Treatment -**

16. List and describe non-surgical procedures used to prevent or treat periodontal disease.
17. Identify instrumentation used to perform non-surgical procedures.
18. Identify medications used to treat periodontal disease.
19. Differentiate between medications that attack bacteria and those that attack enzymes which cause periodontal disease.
20. Recognize and describe surgical procedures used to treat advanced periodontal disease.
21. Explain the difference between incisional and excisional surgery.
22. List the surgeries that are considered incisional procedures and those that are considered excisional procedures.
23. Identify the various applications of laser surgery.
24. Explain the advantages of laser surgery.
25. List the types of periodontal surgical dressing materials.
26. Write the purpose of periodontal surgical dressings.
26. Explain the steps for mixing, applying and removing periodontal surgical dressings (demonstrated).

Other Diseases of Oral Soft Tissue -

27. Identify the various diseases of oral soft tissue.
28. List the causes of these diseases.
29. Describe the treatment for these diseases.

IV. Orthodontics:

1. Describe the types of malocclusion
   - Class I  Neutroclusion
   - Class II  Distocclusion
   - Class III  Mesioclusion

2. Determine some of the developmental causes that would be reasons why a patient would need orthodontic treatment

3. Identify and define the following terms:
   - overjet
   - overbite
   - open bite
   - crossbite

4. Describe the steps in the patient’s treatment plan:
   - medical & dental history
   - physical growth evaluation
   - social & behavioral evaluation
   - clinical examination
   - evaluation of facial esthetics
   - evaluation of oral health
   - evaluation of jaw & occlusal function
   - diagnostic records
5. Determine what types of photographs that would be taken on your patient
6. Determine what types of radiographs that would need to be taken on your patient.
7. Identify and understand the purpose of the orthodontic instruments listed in the course manual.
8. Identify and determine the purpose of the following orthodontic items:
   - arch wire (round and rectangular)
   - separators
   - bands
   - brackets
   - elastics/rubber bands
   - ligature ties
   - power thread
   - elastic chain ties
   - head gear
   - hawley retainer
   - elastic O's

V. Oral & Maxillofacial Surgery:

1. Define the term oral & maxillofacial surgery.
2. List the indications and contraindications of oral maxillofacial surgery.
3. Describe examinations and consultation that must be done before surgery.
4. Identify the more routine surgical procedures including:
   - forceps extraction(simple extraction)
   - multiple extractions & alveoloplasty
   - complex extractions
   - removal of impacted teeth
   - biopsies

5. Identify the steps to these procedures.
6. List the instrumentation and materials used during these procedures and the order in which they are used.
7. Define the terms luxate, alveolitis, alveoloplasty, specules, biopsy.
8. Identify common types of suture material & needles used in oral surgery.
9. Explain the numbering system for the thickness of suture material and needle sizes.
10. Understand when certain types of suture materials are used.
11. List which suture materials are absorbable and non-absorbable and if non-absorbable when they are removed.
12. Describe patient post-operative instructions for the various surgical procedures including information on how to:
   - control bleeding
   - control swelling
   - control pain(meds)
   - control infection
13. Describe the symptoms and suspected causes of alveolitis.
14. Explain the treatment for alveolitis.
15. Explain the difference between an incisional and excisional biopsy and when they are done.
16. Define the term exfoliative cytology.
17. Differentiate between the terms benign and malignant.

VI. Dental Implants:

1. Explain the purpose of dental implants.
2. List indications and contraindications for dental implants.
3. Describe the preliminary evaluation used to determine candidacy for implants.
4. Explain what a surgical stint is, how it is made and its purpose.
5. Describe an endosteal implant and recognize its synonym.
6. Define the term osseointegration.
7. Label the main components of an endosteal implant.
8. Identify the substance implants are usually made of (titanium) and what they are coated with (hydroxyapatite).
9. Recognize the correct steps for endosteal implantation.
10. Write the number of office visits and average time it takes to complete endosteal implantation.
11. Describe a subperiosteal implant and when they are used.
12. Describe a transosteal implant and when they are used.
13. List the instructions given to patients for maintenance of dental implants.
14. Identify what should be done at recall appointments following implant surgery.